

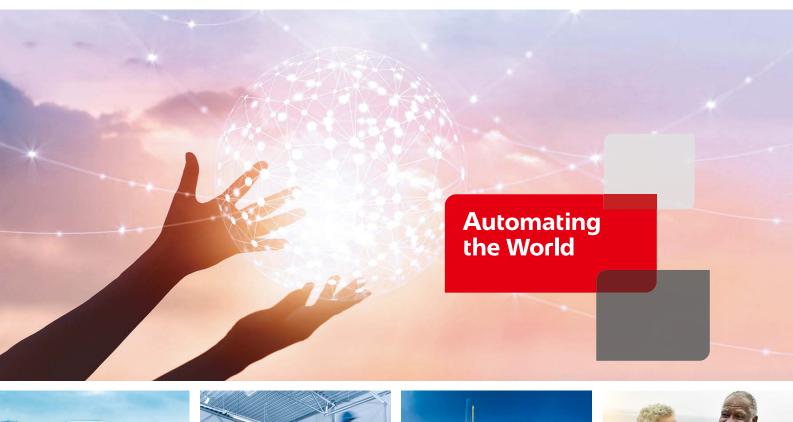
Automating the World

FACTORY AUTOMATION

Graphic Operation Terminal GOT2000 Series/GOT SIMPLE Series



- Remote solutions improve visualization of the shop floor
- GOT and drive control connectivity increases efficiency of the equipment startup and adjustment











Our Factory Automation business is focused on "Automating the World" to make it a better, more sustainable environment supporting manufacturing and society, celebrating diversity and contributing towards an active and fulfilling role.



The Mitsubishi Electric Group is actively solving social issues, such as decarbonization and labor shortages, by providing production sites with energy-saving equipment and solutions that utilize automation systems, thereby helping towards a sustainable society. Mitsubishi Electric is involved in many areas including the following:

Energy and Electric Systems

A wide range of power and electrical products from generators to large-scale displays.

Electronic Devices

A wide portfolio of cutting-edge semiconductor devices for systems and products.

Home Appliance

Dependable consumer products like air conditioners and home entertainment systems.

Information and Communication Systems

Commercial and consumer-centric equipment, products and systems.

Industrial Automation Systems

Maximizing productivity and efficiency with cutting-edge automation technology.



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Lineup Concept movie



HMI lineup		
GOT2000 Series Advanced model with multi-	touch gesture functions	
GIZI Ethernet RS-232 RS-422/485 CC-Link IE T *1 The CC-Link IE Field Network communica		-Link IE Field Basic CC-Link Bus MELSECNET
15 inch TFT AC S5555 Colors C	10.4 inch	8.4 inch TFT AC colors Dc
XGA 1024+768GT2715-XTBA GT2715-XTBDSVGA 800+600GT2712-STBJ GT2712-STBJ GT2712-STW [White model]GT2712-STW (White model]	D 800×600 GT2710-STBD A VGA GT2710-VTBA 640×480 GT2710-VTBD	SVGA 800-600 GT2708-STBA GT2708-STBD VGA 640x480 GT2708-VTBA GT2708-VTBD
High performance, cost effic		CC-Link IE Field Basic CC-Link ¹² Bus ¹² MELSECNET ¹²
GT25 Sound output* External I/O*2 *1 The CC-Link IE Field Network communication	ation unit and GOT set is also available. *2 Not si	upported by GT2505.
12.1 inch TFT 65556 DC C C C C C C C C C	8.4 inch	5.7 inch
SVGA 800×600 GT2512-STBA GT2512-STBD GT2510-VTB/ GT2510-VTW (White model) GT2510-VTW (White model)	D 640×480 GT2508-VTBD A GT2508-VTWA [White model]	VGA 640×480 GT2505-VTBD
GT25GOT2000 widescreen expands yourWideEthernet (2 ports)RS-232RS-422/485CC-Link I	r VİƏW E Field Basic Sound output (built-in)	Ethernet (2 ports)GT25RS-232RS-422/485CC-Link IE Field BasicSound output (built-in)
NEW 12.1 inch TFT 65556 colors DC 10.1 inch TFT 65556 colors DC	7 inch	7 inch
WXGA 1280×800 GT2512-WXTBD GT2512-WXTSD WXGA 1280×800 GT2510-WX GT2510-WX		WVGA GT2507T-WTSD 800x480
GT21 Wide Ethernet RS-232 RS-422/485 CC-Link IE Field Basic	21 Compact models with Ethernet ¹¹ RS-232 ¹¹ RS-422/48 *1 Supported interfaces vary deper [] after the model. *2 Supported only by the models e	CC-Link IE Field Basic*2 ading on the model. Please refer to descriptions in
	TFT mono-chrome 5-color Strength <	



1

Lineup

For the status of conforming to various standards and laws, please contact your local sales office.

GT27 model

Advanced model with multi-touch gesture functions







A wide variety of specifications suit every system design

Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running. In addition, image recording, image playback, video image input, and RGB output are available*, thus all the functions of GOT2000 can be used on GT27 models. * Excluding GT2705

With Backup/Restoration function, fear troubles no more!

The programs and parameters of the programmable controller CPU can be backed up to the SD memory card or USB memory device in the GOT. In case of a CPU failure, users can perform batch operation to restore the data to the controller.

Item	Specifications
Display	5.7"/8.4"/10.4"/12.1"/15", TFT color LCD, 65536 colors
Resolution	XGA, SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 57 MB (GT2705 has 32 MB) Memory for operation (RAM): 256 MB*1 NEW (GT2705 has 80 MB)
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 2 channels* ² (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface
Extension interface	CC-Link IE TSN, CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface	For installing a wireless LAN communication unit

- *1 If the function version is B or earlier, the memory for operation (RAM) is 128 MB. Please refer to the Technical Bulletin No. GOT-A-0162 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric. com/fa/).
- *2 White model has 1 channel.



■ GT27 model external appearance [Standard model: front face/rear face]



Human sensor

The unit automatically detects an operator approaching the unit and displays the screen. * GT2715, GT2712 only

② USB interface: device (USB Mini-B)

Connect to a personal computer and

- transfer data.
- * Standard models: front face only * White models: rear face only

3 USB interface: host (USB-A)*1

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.

A USB mouse, keyboard, barcode reader*², or RFID reader*² can also be connected.

- *1 White models: rear face only
- *2 USB keyboard (HID) compatible model only

4 Extension interface

Communication and option units can be installed.

6 Ethernet interface

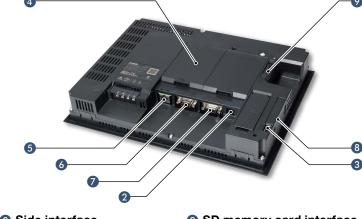
Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

6 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.

RS-422/485 interface

Connect to various industrial devices and barcode readers.



8 Side interface Install a wireless LAN communication unit. SD memory card interface Save large volumes of data, including alarms and logging data.

GT27 model external appearance [White model: front face]



Human sensor

The unit automatically detects an operator approaching the unit and displays the screen. ⁺ GT2712 only

Ø Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

3 White body

The white model portrays a clean image.

White model features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [the EU member states, the United Kingdom], KCs [Korea]). * Supported standards vary depending on the model. For the details, please refer to page 88.

GT25 model

High performance, cost efficient, mid-range model







A wide variety of specifications suit every system design

Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running.

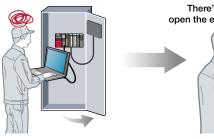
Item	Specifications
Display	5.7" /8.4"/10.4"/12.1", TFT color LCD, 65536 colors
Resolution	SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 2 channels*1 (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface
Extension interface*2	CC-Link IE TSN, CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface*2	For installing a wireless LAN communication unit

*1 GT2505 and white model have 1 channel.

*2 GT2505 does not have the extension interface and the side interface.

FA Transparent function simplify your debugging work!

By connecting a personal computer to the front USB interface on the GOT, the GOT acts as a transparent gateway to enable startup and adjustment of equipment. Users do not have to bother with opening the electrical cabinet or changing cable connections.







■ GT25 standard model external appearance [front face/rear face] · Excluding GT2505



8 Extension interface

Communication and option units can be installed.

4 Ethernet interface

Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

6 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.

6 RS-422/485 interface

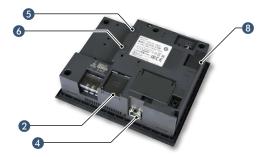
Connect to various industrial devices and barcode readers.

Side interface

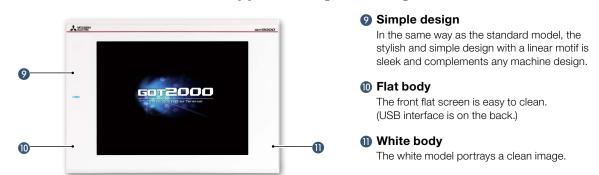
Install a wireless LAN communication unit.

■ GT2505 external appearance [front face/rear face]





GT25 white model external appearance [front face]



White model features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [the EU member states, the United Kingdom], KCs [Korea]). * Supported standards vary depending on the model. For the details, please refer to page 88.

Connect to a personal computer and transfer data.

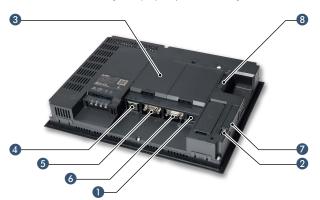
* Standard models: front face only * White models: rear face only

2 USB interface: host (USB-A)*1

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.

A USB mouse, keyboard, barcode reader*², or RFID reader*² can also be connected.

- *1 GT2505, white models: rear face only
- *2 USB keyboard (HID) compatible model only



8 SD memory card interface

Save large volumes of data, including alarms and logging data.

GT25 wide model

GOT2000 widescreen expands your view



For details



Concept movie





7" widescreen

For the details of GT25 wide models, please refer to the Graphic Operation Terminal GOT2000 Series Wide Model catalog (L(NA)08461ENG).

Various interfaces are equipped in a compact body

The stylish design realized with a narrow bezel. The GOT2000 wide models are available in a choice of silver and black.

Two Ethernet ports and the built-in sound output interface* equipped as standard add value to your system. * A speaker with built-in amplifier is required separately.

Item	Specifications
Display	7" widescreen / 10.1" widescreen / 12.1" widescreen NEW, TFT color LCD, 65536 colors
Resolution	WVGA, WXGA
Backlight	White LED
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 128 MB
Standard interface	Ethernet (2 ports), RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) Sound output interface (\$\$.5 minijack), SD memory card interface
Extension interface	_
Wireless LAN communication unit interface	For installing a wireless LAN communication unit

Ultra high resolution display improves expressiveness

Ultra high resolution WXGA screen* displays necessary and sufficient information on one screen. Small characters can be displayed clearly.

 * WXGA display on the 10.1 inch and 12.1 inch models. WVGA display on the 7 inch model.

About 3.3 times higher resolution displays small characters clearly



* The example image shows the 10.1 inch model.

Add value to your system with sound notification

Enable separation of information and control

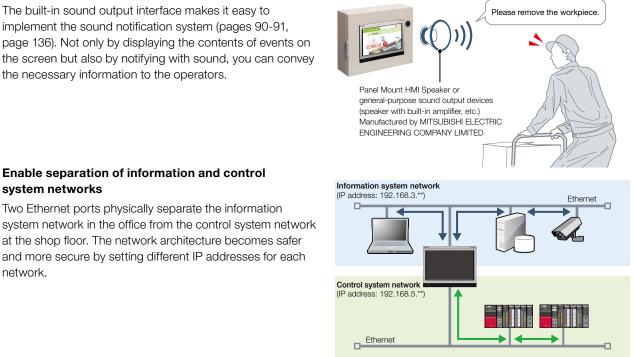
Two Ethernet ports physically separate the information

at the shop floor. The network architecture becomes safer and more secure by setting different IP addresses for each

system networks

network.

The built-in sound output interface makes it easy to implement the sound notification system (pages 90-91, page 136). Not only by displaying the contents of events on the screen but also by notifying with sound, you can convey the necessary information to the operators.



GT25 wide model external appearance [front face/rear face]

The example picture shows the 10.1 inch model

8 Ethernet interface (2 ports) Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be

connected.

A RS-422/485 interface

and barcode readers.

Sound output interface

stereo mini-plug (3-prong).

Output sound by connecting ϕ 3.5

6 RS-232 interface

(\$3.5 minijack)

Connect to various industrial devices

Connect to various industrial devices, barcode readers and serial printers.



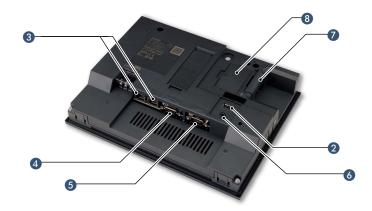
USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

2 USB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.

* USB keyboard (HID) compatible model only



SD memory card interface Save large volumes of data, including alarms and logging data.

8 Wireless LAN communication unit interface Install a wireless LAN communication unit.

GT25 handy GOT

HMI functionality in the palm of your hand





GOT2000 Series handy GOT

With portable handy GOT, you can operate your machines while standing next to them.

ltore	Specifications	
Item	GT2506HS-VTBD	GT2505HS-VTBD
Display	6.5", TFT color LCD, 5.7", TFT color LCD, 65536 colors 65536 colors	
Resolution	VGA	
Backlight	White LED	
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB	
Standard interface	Ethernet* ² , RS-232* ^{1*2} , RS-422/485* ^{1*2} USB host (USB-A): 1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface	

*1 When using GT2506HS, select one channel from RS-232 or RS-422/485.

*2 When using GT2505HS, select one channel from Ethernet, RS-232, or RS-422. RS-485 cannot be used.

Example of connecting GT25 handy GOT and industrial devices

HUB

GT2506HS-VTBD

 Ethernet connection
 Serial connection

 The maximum distance between the connector conversion box and the GOT is 10 m.
 Up to four different industrial devices are connectable.
 Programmable controller mergency stop circuit, etc.
 RS-232 or RS-422/485
 Ethernet and serial connection cable
 Ethernet and serial connection cable
 Connector conversion box gT16H-CNB-42S

Connector conversion box

Used to connect handy GOT and industrial devices via Ethernet or serial connection.

	GT2506HS		GT2505HS	
Connector conversion box	Ethernet	RS-232, RS-422/ 485	Ethernet	RS-232, RS-422
GT16H-CNB-42S ID number recognition function supported	0	0	0	-
GT16H-CNB-37S	0	-	0	_
GT11H-CNB-37S	-	-	-	0

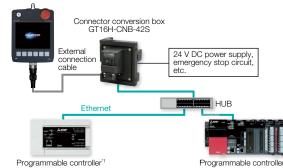
*1 To use Ethernet and serial communication simultaneously, make Communication Settings correctly to enable the multi-channel function.

GT2505HS-VTBD

Programmable controlle

Ethernet connection

- The maximum distance between the connector conversion box and the GOT is 10 m.
- Up to four different industrial devices are connectable.



*1 To use third-party programmable controllers, make Communication Settings

Serial connection

• Select either of RS-232 or RS-422.

 The maximum distance between the connector conversion box and the GOT is 10 m.



Programmable controller

■ GT2506HS external appearance [front face/rear face]



Emergency stop switch

An emergency stop switch is used to stop the operation of devices in case of an emergency. It utilizes a "normally closed contact" for safety.

2 LED operation switches (GT2506HS)/ Operation switches (GT2505HS)

The switches can be used to operate and stop machines. Hard switches on the operation panel are no longer required. These switches can be wired to inputs of programmable controllers and other devices.

3 SD memory card interface

Save large volumes of data, including alarms and logging data.

4 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

■ GT2505HS external appearance [front face/rear face]



(JUSB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.

6 Keylock switch (2-position switch))

Operators can be restricted depending on the operation, such as switching manual/automatic operation or selecting the modes. Once the key is pulled out, others cannot operate it. The switch is used with wiring to the input of programmable controllers.

Grip switch

The three-position (OFF-ON-OFF) type deadman switch is adopted as an interlock for preventing operation mistakes and prohibiting operation of a machine. The switch can directly control external equipment to give immediate stop commands to a machine. The switch can be wired to inputs of programmable controllers and other devices.

GT2505HS

Wall-mounting attachment for Handy GOT GT14H-50ATT



The wall-mounting attachment for handy GOT is to place the GT2505 Handy GOT while it is not being used.



Firmly held with four posts, the GOT can be stably placed on the attachment. When you use the GOT, you can quickly remove it and start operation.



GT25 rugged model



Wide operating temperature range model with a stylish metal housing



Suitable for outdoors or in non air-conditioned rooms

The working ambient temperature has been expanded to -20°C to 65°C. The high-brightness LCD panel (2 times brighter than non-rugged models) provides a clear screen view when installed outdoors. The rugged model is ultraviolet ray resistant with an environmental protection sheet that has UV protection function. * Note that the structure does not guarantee protection in all users' environments.

High brightness, clear visibility under daylight

The high-brightness LCD panel (1000 cd/m^{2*}) provides a clear screen view even under strong sunlight.

* Brightness of independent panel.



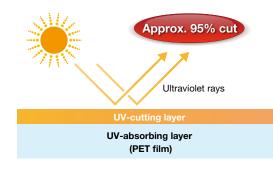


Sunlight-resistant screen enables clear glare-free viewing!

Item	Specifications
Display	7" widescreen, TFT color LCD, 65536 colors
Resolution	WVGA
Backlight	White LED
Panel material	Aluminum
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 128 MB
Standard interface	Ethernet (2 ports), RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) Sound output interface (\$0.5 minijack), SD memory card interface
Extension interface	_
Wireless LAN communication unit interface	For installing a wireless LAN communication unit
Operating ambient temperature	-20 °C to 65 °C
Brightness (LCD panel)	1000 cd/m² (Typ)
UV cutoff	Approximately 95% (370 nm)
Protective structure	Front: IP66F, IP67F Inside control panel: IP2X
Vibration resistance	19.6 m/s ² (continuous), 19.6 m/s ² (intermittent)
Shock resistance	392 m/s² (40G)
Dedicated option	UV protective sheet, protective cover for oil, stand

UV resistant

Ultraviolet rays are cut by approximately 95% (370 nm) with a UV-cutting layer and UV-absorbing layer. Degradation of the LCD panel or touch panel caused by ultraviolet rays is reduced. Use the optional UV protection sheet to further improve resistance to ultraviolet rays.



Vibration and shock resistant

Since the structure of the front panel has been reinforced with a metal housing, the rugged model can be used in environments that are subject to vibration or shock, such as construction equipment or snow plows.



■ GT25 rugged model external appearance [front face/rear face]



GOT front face

The metal enclosure increases resistance against vibration and shock. Ultraviolet rays are cut by approximately 95% (370 nm). Also comply with IP66F and IP67F ratings.

2 Ethernet interface (2 ports)

Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

8 RS-422/485 interface

Connect to various industrial devices and barcode readers.

4 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.

6 Sound output interface (\$3.5 minijack)

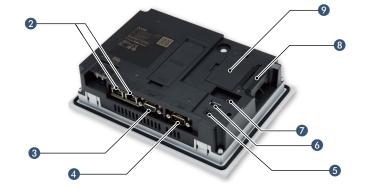
Output sound by connecting ϕ 3.5 stereo mini-plug (3-prong).

O USB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected. * USB keyboard (HID) compatible model only

USB interface: device (USB) Mini-B)

Connect to a personal computer and transfer data.



8 SD memory card interface

Save large volumes of data, including alarms and logging data.

Ø Wireless LAN communication unit interface

Install a wireless LAN communication unit.

GT25 open frame model



A new style of GOT2000



GOT complements machine design

Installing the GOT2000 from the back side of the control panel complements the machine-design surface. Using a stainless-look environmental protection sheet allows the touch panel to blend into the production machines for the pharmaceutical and food industries.

Item	Specifications
Display	8.4"/10.4"/12.1", TFT color LCD, 65536 colors
Resolution	SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface
Extension interface	CC-Link IE TSN, CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface	For installing a wireless LAN communication unit

IP67F protection

To conform to IP67F, attach an environmental protection sheet.* GOT can be operated with wet hands, wiped with a damp cloth, and washed with water.

* Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

Suitable for pharmaceutical and food industries

Flush surface without any gaps and grooves prevents dust, dirt, and debris from accumulated on the edge.



GT25 open frame model external appearance [front face/rear face]



Touch panel

Using an environmental protection sheet (optional or prepared by the users) is required.

- 2 Unit installation fitting Fittings to install GOT to a panel are included.
- 3 Extension interface Communication and option units can be installed.

4 Ethernet interface

Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

5 RS-232 interface Connect to various industrial

devices, barcode readers and serial printers.

6 RS-422/485 interface Connect to various industrial devices and barcode readers.

8

1

Side interface Install a wireless LAN communication unit.

8 SD memory card interface

Save large volumes of data, including alarms and logging data.

Ø USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

USB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.

* USB keyboard (HID) compatible model only

Easy installation

Adjustable to various panels

The installation fitting is adjustable from 1.5 mm to 4 mm of the control panel thickness. GOT can adjust the difference of the control panel thickness. Vertical installation is also available.

Designed for safe installation

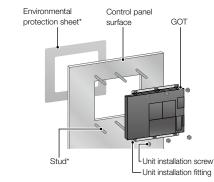
The edge of the touch panel is protected to prevent damage to the touch panel or injury by touching the sharp edge. It is possible to safely install the GOT.



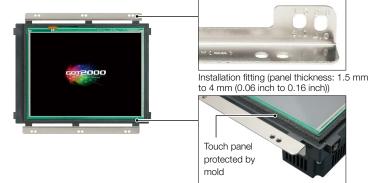
Dedicated installation fittings

Attach appropriate installation fittings (vertical/horizontal) depending on the installation orientation.

Installation instructions



* An environmental protection sheet (optional or prepared by the users), studs and screws (prepared by the users) are required separately.



Designed for safe installation

GT23 model Unchallenged cost performance







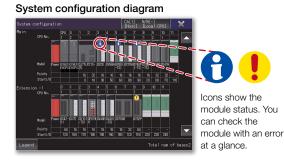
A wide variety of specifications suit every system design

Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. Advanced interactive features such as data logging, multi-channel communication, and FA transparent function are supported.

Item	Specifications
Display	8.4"/10.4", TFT color LCD, 65536 colors
Resolution	VGA
Backlight	White LED
User memory	Memory for storage (ROM): 9 MB Memory for operation (RAM): 9 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Use the System Launcher function and quickly check the system status!

A graphical system configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.



Extended functions menu



■ GT23 model external appearance [Standard model: front face/rear face]



Simple design

The simple design with a linear motif is sleek and complements any machine design.

2 Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

8 Ethernet interface

Use Ethernet to simultaneously connect up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

4 RS-232 interface

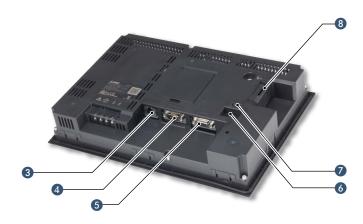
Connect to various industrial devices, barcode readers and serial printers.

6 RS-422/485 interface

Connect to various industrial devices and barcode readers.

O USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.



VISB interface: host (USB-A)

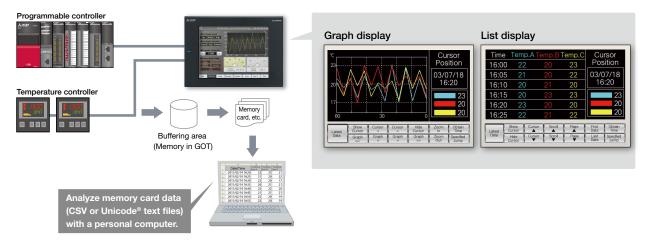
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected. * USB keyboard (HID) compatible model only

8 SD memory card interface

Save large volumes of data, including alarms and logging data.

Easily collect log data and display it in graphs and lists

Use the GOT to collect data from the programmable controller and temperature controllers. The data can be displayed in graphs and lists. It can also be exported to a personal computer for further analysis. The logging data can be saved in the built-in SRAM even if the power fails.



GT21 wide model

Expands possibilities of GT21 models





Concept movie





For the details of GT21 wide models,

please refer to the Graphic Operation Terminal GOT2000 Series Wide Model catalog (L(NA)08461ENG).

The highest resolution screen in the GT21 models, with various built-in interfaces

The GOT2000 wide models are available in a choice of silver and black. In addition to the high resolution display, 65536 colors of LCD improves quality of screen display. The first GT21 model with the USB host enables you to connect a USB

mouse and keyboard, or transfer data using a USB memory. In addition, Ethernet printers can be used.

Item	Specifications
Display	7" widescreen, TFT color LCD, 65536 colors
Resolution	WVGA
Backlight	White LED
User memory	Memory for storage (ROM): 15 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Cool black

Widescreen displays large amounts of information

High resolution WVGA screen has sufficient display area for long alarm messages.

5 times higher resolution greatly increases expressiveness





Remote monitoring provides wide access to application

Remote monitoring with the VNC server function is available. By remotely connecting to GOT from personal computer or tablet, you can operate, monitor production equipment and connect to system devices.

* GT2107-W only among GT21 models.



Enhanced graphics

Outline fonts can now be used on GT21 model. Antialiasing smoothes out jagged text edges and displays clear characters, offering improved visibility of screen display.

* GT2107-W only among GT21 models.

Standard 16dot HQ Gothic

Trend graph

Wide Outline Gothic (antialiasing enabled)

Trend graph

Clear characters improve visibility

GT21 wide model external appearance [front face/rear face]



1 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

② USB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.

* USB keyboard (HID) compatible model only

8 Ethernet interface

Use Ethernet to simultaneously connect up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

4 RS-422/485 interface

Connect to various industrial devices and barcode readers.

6 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.

6 SD memory card interface

Save large volumes of data, including alarms and logging data.



GT21 model



■ GT2104-R

Compact model with exciting possibilities



Widescreen type compact model!

High resolution, 480 × 272 dot display realized in a compact body!

Item	Specifications
Display	4.3", TFT color LCD, 65536 colors
Resolution	480 × 272 dots
Backlight	White LED
User memory	Memory for storage (ROM): 9 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Wide screen display fits a lot of data!

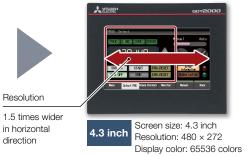
The wide model shows a large amount of information on a 65536 color display.



Display color: 256 colors

GT1045-QSBD

GT2104-RTBD



GT2104-R external appearance [front face/rear face]



Simple design

The simple design with a linear motif is sleek and complements any machine design.

Plat body

The front flat screen is easy to clean. (USB interface is on the back.)

3 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

4 Ethernet interface

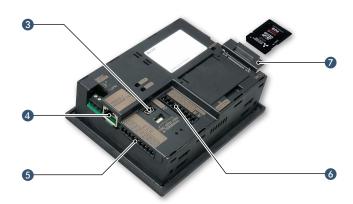
Use Ethernet to simultaneously connect up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

6 RS-422/485 interface

Connect to various industrial devices and barcode readers.

6 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.



⑦ SD memory card interface Save large volumes of data, including alarms and logging data.

■ GT2103-PMBD Small screen, big possibilities

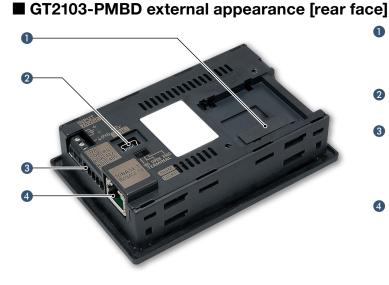


High-definition LCD

GT2103 is equipped with an easy to see, compact high-resolution TFT LCD with 32 gray scales.







Small, compact, easy to operate!

Ethernet built into a compact body!

The intuitively understandable 5-color backlight offers choices of backlight color and backlight blink according to machine operation state.

Item	Specifications
Display	3.8", monochrome (black/white), 32 shade grayscale TFT LCD display
Resolution	320 × 128 dots
Backlight	5-color LED (white, green, pink, orange, red)
User memory	Memory for storage (ROM): 3 MB
Standard interface	Ethernet, RS-422/485 USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps))
Extension interface	For installing an SD memory card unit

SD memory card unit is available!

SD memory cards can be used when the optional SD memory card unit is attached.





SD memory card unit GT21-03SDCD Separate SD memory card is required.

SD memory card unit interface

Connect an optional SD memory card unit and save data including alarms and logging data. * Excluding GT2103-PMBLS

2 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

8 RS-422/485 interface

Connect to various industrial devices and barcode readers.

* Excluding GT2103-PMBDS2 * RS-422 on GT2103-PMBLS (dedicated to FX connection)

4 Ethernet interface

Use Ethernet to simultaneously connect up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected. * GT2103-PMBD only





The GOT SIMPLE Series upgrade brings the most demanded new features

10" widescreen, GS2110-WTBD-N





For the details of the GOT SIMPLE Series, please refer to the Graphic Operation Terminal GOT SIMPLE Series catalog (L(NA)08649ENG).

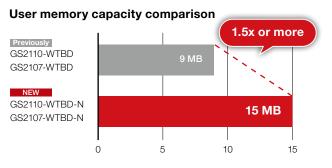
The GOT SIMPLE Series with the most demanded features enables remote maintenance

User memory capacity is now increased to 15 MB. Outline fonts offer improved visibility of screen display. In addition, remote maintenance is possible using the VNC server function, and thus monitoring devices from a remote location improves work efficiency.

* To design screens of the upgraded GOT SIMPLE Series, it is required to use GT Works3 Version1.250L or later.

Expanded user memory capacity (9 MB 🌩 15 MB)

The user memory capacity has been expanded to 15 MB from the GOT SIMPLE Series previous model. There is no need to worry about the project data size when designing screens.



Support RS-485 connection A common interface for RS-422 and RS-485 connections

A common interface for RS-422 and RS-485 connections is available. Temperature controllers and MODBUS[®] devices can be connected.



Temperature controllers and MODBUS® devices

7" widescreen, GS2107-WTBD-N



Item	Specifications					
Item	GS2110-WTBD-N	GS2107-WTBD-N				
Display	10" widescreen, TFT color LCD, 65536 colors	7" widescreen, TFT color LCD, 65536 colors				
Resolution	WVGA: 800 × 480 dots					
Backlight	White LED					
User memory	Memory for storage (ROM): 15 MB					
Standard interface	Ethernet, RS-232, RS-422/485 USB device (USB Mini-B): 1 channel (USB1.1 (Full-Speed 12 Mbps)) SD memory card interface					

Support outline font

Outline fonts can now be used on the GOT SIMPLE Series. Antialiasing smoothes out text edges and displays clear characters, offering improved visibility of screen display. Trend graph

Trend graph

Outline Gothic (antialiasing enabled)

Clear characters improve visibility

Operate screen



Display CSV file

Enhanced traceability for easy troubleshooting Operation log function

GOT records the operation information, such as the "what, when, and how" of an operation performed, in chronological order in an SD memory card. Use of the operation log function combined with the operator authentication function records additional information of "who" performed the operation.

Remote maintenance by using the VNC server function

If a problem occurred in a remote location, it is easy to monitor the GOT from your office and take corrective actions quickly.



■ GOT SIMPLE Series external appearance [front face/rear face]



8 RS-232 interface

Connect to various industrial devices, barcode readers and serial printers. Supported connection to BRIGHTEK printers by using the RS-232 interface.

For the connectable printers, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series and GOT SIMPLE Series for Overseas" (GOT-A-0160).

4 RS-422/485 interface

Connect to various industrial devices (programmable controllers, inverters, servo amplifiers, etc.), barcode readers, temperature controllers, and MODBUS[®] devices.

5 USB interface: device (USB Mini-B)

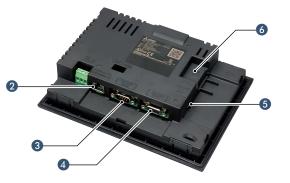
Connect to a personal computer and transfer data.

GOT front face

IP65F front face protection is useful for various production machines and facilities.

2 Ethernet interface

Use Ethernet to simultaneously connect up to two types of industrial devices (programmable controllers, inverters, servo amplifiers, etc.) from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.



6 SD memory card interface Save large volumes of data, including alarms and logging data.

MELSOFT

GOT2000 compatible HMI software SoftGOT2000



Turn your personal computer or panel computer into GOT2000

A MIRA

For the details of GT SoftGOT2000. please refer to the GT SoftGOT2000 Solutions catalog (L(NA)08606ENG).

High affinity with GOT2000 Series

Functions equivalent to the GOT2000 Series can be used in GT SoftGOT2000. The project data created with HMI/ GOT Screen Design Software GT Works3 can be used by converting it into the GT SoftGOT2000 data.

▶ For the supported functions, see "Function list" on page 166.

Reuse project data GOT2000



Same operability with GOT2000 Series

In addition to touch operations, long press can also be used. Using momentary switches and delay settings enables safe operation and improves operability.

License kev (for USB port)

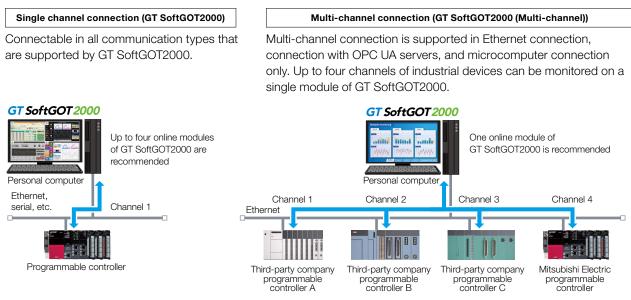


MI3000 with GT SoftGOT 2000

▶ GT SoftGOT2000 is preinstalled on MELIPC MI3000. For the details, see page 208.

System configurations

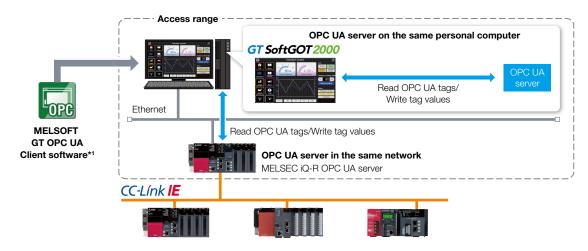
GT SoftGOT2000 can be used in single channel connection that monitors one channel and in multi-channel connection that enables monitoring up to four channels of industrial devices. Select the connection type to match your system configuration.



Connectable to OPC UA servers

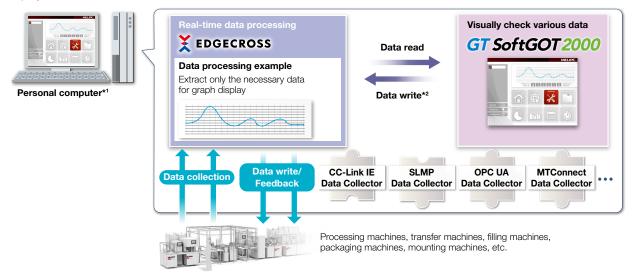
GT SoftGOT2000 accesses an OPC UA server as an OPC UA client.*1

*1 To connect to OPC UA servers, installation of MELSOFT GT OPC UA Client software is required. To use the OPC UA client connection, use Windows[®] 7 OS or later. For more information about how to obtain the software, please contact your local sales office.



Edgecross interaction

Edgecross is the open software platform in Japan in the edge computing field that coordinates factory automation and IT systems. Edgecross analyzes and diagnoses data near the shop floor and enables real time feedback to the production, data collection, and sending or receiving data to/from facilities and equipment regardless of vendors and network types. The data collected by Edgecross can be easily visualized and analyzed using various functions such as trend graph display on GT SoftGOT2000.



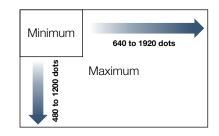
*1 It is required to install Edgecross Basic Software, Data Collector, and GT SoftGOT2000 on a personal computer.

*2 To write data from GT SoftGOT2000 to Edgecross Basic Software, installation of MELSOFT GT OPC UA Client software is required separately.

Flexible resolution setting

The users can flexibly specify resolutions to change the screen size depending on the information device to use.



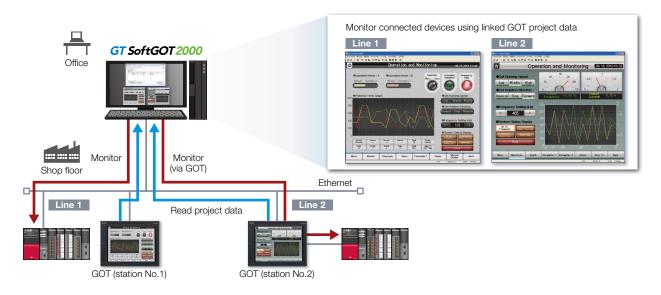


GT SoftGOT2000

The same screens as the on-site GOT can be monitored on an office computer (SoftGOT-GOT link function)

If GOT is used at the shop floor, GT SoftGOT2000 reads project data from the GOT via Ethernet, and uses the project data to monitor connected devices. There is no need to create project data dedicated for GT SoftGOT2000 and quick remote monitoring of industrial devices is enabled via Ethernet. Since GT SoftGOT2000 can also display a different screen from the one shown on the GOT at the shop floor, monitoring on GT SoftGOT2000 does not affect shop floor operation. In addition, exclusive control of authorization is provided as standard to prevent simultaneous operations and ensure safe operation.

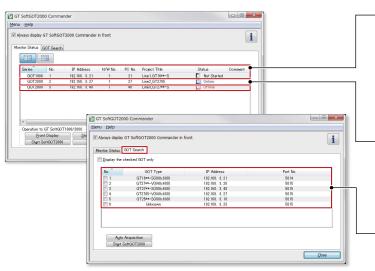
* SoftGOT-GOT link function is supported by GT27 and GT25. Not supported by GT23, GT21, and GS21.





GT SoftGOT2000 Commander makes monitoring work efficient

When using the SoftGOT-GOT link function, GT SoftGOT2000 Commander can be used to collectively check the monitoring status of GT SoftGOT2000 modules, and start or stop monitoring of the modules. * GT SoftGOT2000 Commander is a software included in GT Works3, the same as GT SoftGOT2000.



Effective usage when there are multiple GOTs that use the SoftGOT-GOT link function

The list shows which GT SoftGOT2000 module is linked to which GOT, and each monitoring status. Since it is recommended to use up to four modules of

GT SoftGOT2000 online simultaneously, after starting up 20 modules of the software, up to four modules can be set online and thus large-scale systems can be monitored efficiently.

Managing start/stop of monitoring is easy

Double-click the Comment column of each line to switch between Online and Offline, or between Not started and Online (Offline).

- Online: during monitoring
- Offline: stopped monitoring

Automatically search for GOTs to monitor

GOTs that can use the SoftGOT-GOT link function can be searched.

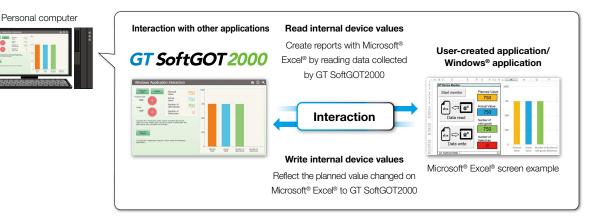
Building advanced systems

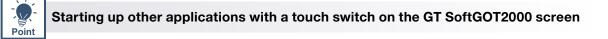
Windows® applications can be started up from GT SoftGOT2000.

The data of GT SoftGOT2000 internal devices can be read and written from the user-created applications. Interaction between GT SoftGOT2000 and user-created applications enables the users to control or manage data by own method.

* GD, GS, GB, SGB, or SGD internal devices can be used.

* For the supported applications, please refer to the GT SoftGOT2000 Version1 Operating Manual.





By creating a touch switch on the GT SoftGOT2000 screen in advance, it is possible to start other applications (such as Microsoft® Excel®) while monitoring GT SoftGOT2000. In addition, by setting internal devices to the option for application startup, the mode or processing of the applications can be dynamically changed. NEW
Interaction between equipment monitoring and personal computer applications makes monitoring work efficient.

Starting up Microsoft® Excel®

The data collected by GT SoftGOT2000 can be checked in a graph quickly.



Starting up GX Works3

MI3000 at the shop floor monitors sequence programs without bringing a laptop computer. * GX Works3 should be installed in advance.



MI3000 with GT SoftGOT 2000

▶ For the details of MI3000, see page 208.

Automatic startup

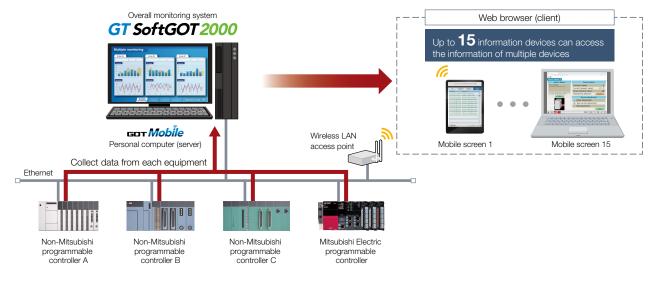
By using scripts, other applications can be started automatically by setting conditions such as when an error occurs or specific device values. (GS devices are used to control the function.)

GT SoftGOT 2000 + GOT Mobile

Building a large scale remote monitoring system (GT SoftGOT2000 + GOT Mobile function)

GT SoftGOT2000 that runs on a personal computer can be used as a server of the GOT Mobile function. It is easy to monitor multiple devices remotely from mobile terminals by accessing a panel computer on the equipment or a personal computer on the network. In addition, a large scale remote monitoring system can be built when using GT SoftGOT2000 that performs overall monitoring as the server of the GOT Mobile function.

* To use GT SoftGOT2000 with the GOT Mobile function, it is recommended to use GT SoftGOT2000 (multiple channels). The GOT Mobile function cannot be used with Windows[®] 7, Windows[®] 8.1 (no edition), or Windows[®] 10 Home edition.





Enhanced functions to implement a host monitoring system

The entire factory can be visualized by interacting with the ANDON function and the user alarm reception function of the Pocket GOT mobile app.

Interaction with the ANDON function

Information obtained from production equipment is displayed on the monitor for ANDON via GT SoftGOT2000, allowing sharing of the production site information to enable visualization.

GT SoftGOT 2000



Interaction with the Pocket GOT mobile app user alarm reception function

Smartphones and mobile terminals can receive the information of user alarms in real time when they occurred on GT SoftGOT2000.

* For the details of the Pocket GOT mobile app user alarm reception function, please see page 38.



Receive alarms simultaneously

* The OS supported by Pocket GOT is Android[™] only. When using the Pocket GOT mobile app with the GOT Mobile function, up to 20 information devices can be used

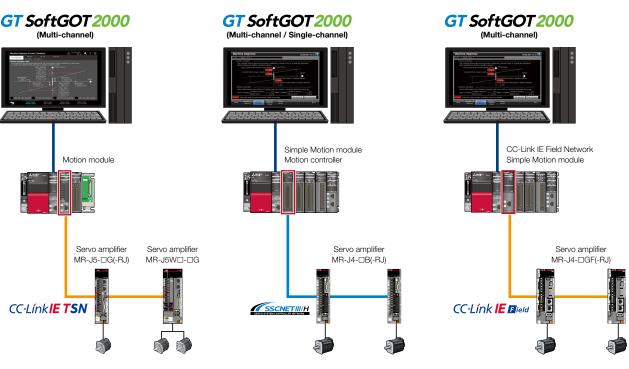
GT SoftGOT 2000 + GOT Drive

Enhanced interaction with drive control (servo) system

System configuration examples

System configuration examples

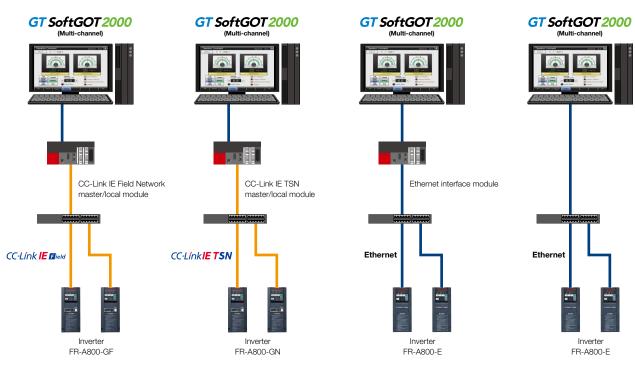
The SoftGOT2000 provides advanced functionality and improves connectivity with Mitsubishi servo systems. It provides some functions of MR Configurator2 (supporting MR-J5 and MR-J4). The status of servo amplifiers can be checked in your office or at the shop floor when they are connected to GT SoftGOT2000. Select the required connection type that matches your system configuration from various types of connection with servo amplifiers.



* For the details of supported connection types, supported models, and restrictions, please refer to page 52.

Enhanced interaction with drive control (inverter) system

The SoftGOT2000 provides advanced functionality and improves connectivity with Mitsubishi inverter systems. It provides some functions of FR Configurator2. Select the required connection type that matches your system configuration from various types of connection with inverters.



* For the details of supported connection types, supported models, and restrictions, please refer to page 68

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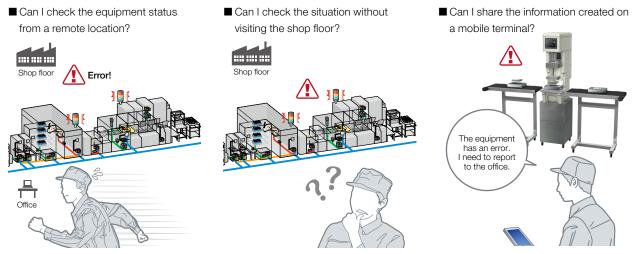
• iQSS utility function

GOT Web-based Remote Solutions





Monitor your shop floor from a remote location



GOT offers various remote monitoring and operation functions that can be used for various applications depending on your needs. The GOT remote solutions increase efficiency in various applications from startup, adjustment, to maintenance using mobile devices and personal computers. The GOT2000 improves visualization accessibility and reduces total cost of ownership.

Comparison of remote maintenance functions

		Monitor or operate GOT, GT SoftGOT2000, or connected devices from a personal computer or a mobile terminal						Monitor a personal computer from GOT
		GOT Mobi	lobile function					Demokerenenel
	Item	GT27/GT25 (server) P.36	GT SoftGOT2000 (server) NEW P.37	iQ Monozukuri ANDON P.42	iQ Monozukuri Process Remote Monitoring P.40	VNC server function P.43	SoftGOT-GOT link function P.44	Remote personal computer operation function (Ethernet) P.45
Number from clie	of simultaneous connections ents	O Maximum 5	O Maximum 15*4	O Maximum 5	—	× Simultaneous connection prohibited (1 to 1 only)	O Maximum 7*1	-
Monitor client	a different screen on each	0		_	× Always monitor the same screen as on GOT	∆*2	-	
Drawing	performance		0		0	Δ	0	-
Viewing	application	Web browser (Google Chrome™, Safari®, Microsoft Edge®)		GT SoftGOT2000 (license key required separately)	VNC viewer (freeware*3)	GT SoftGOT2000 (license key required separately)	-	
	pplication interaction ™ dedicated application, GOT)	User alarm reception function	User alarm reception function	_	Working memo function	_	_	-
Required options		License (register on GOT)	License (register on GT SoftGOT2000)	License (register on GOT)	License (register on PC), License key (attach to PC)	License (register on GOT)	License key (attach to PC)	License (register on GOT)
Authoriz	Authorization exclusive control			0	0	0	-	
Screen	Supported objects (touch switch, etc.)	functions are	△ Some functions are different from GT SoftGOT2000		○ Same as GOT	○ Same as GOT	○ Same as GOT	-
display ·	Monitoring functions (sequence program monitor, etc.)		× Not supported		× Not supported	O Same as GOT	× Not supported	_

*1 When using the GOT network interaction function, multiple clients can be connected simultaneously. Note that restrictions exist depending on the connection type between GOT and the connected device.

*2 When a GOT internal device is used as the screen switching device, each client can display a different screen.

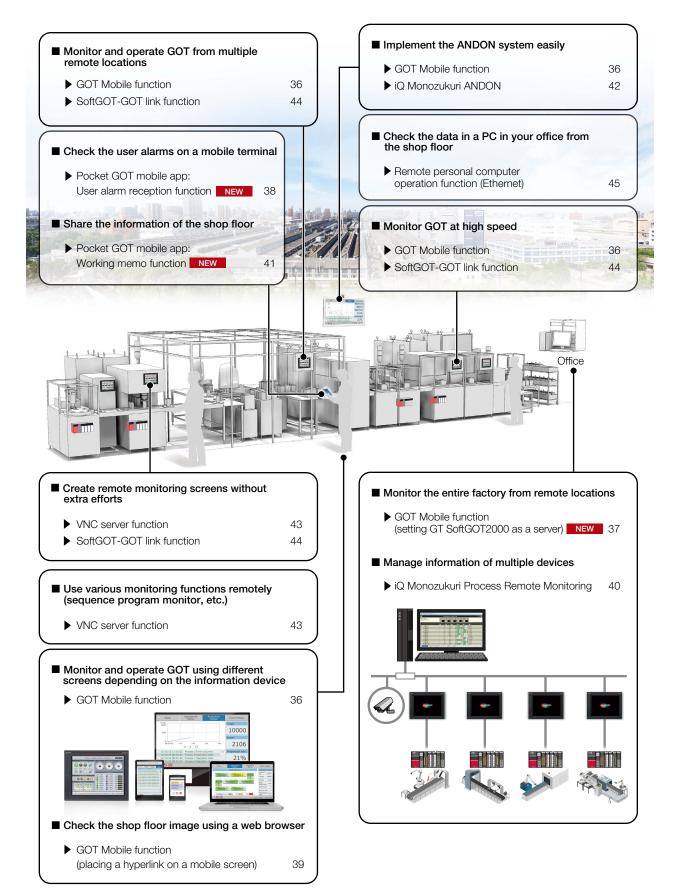
*3 For the VNC client software that can be used, please refer to the Technical Bulletin GOT-A-0069 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

(www.MitsubishiElectric.com/fa/). *4 When using the Pocket GOT mobile app with the GOT Mobile function, up to 20 information devices can be used.

Safety precautions

When the GOT Mobile function, the VNC Server function, the SoftGOT-GOT link function, the remote personal computer operation function (Ethernet), or iQ Monozukuri products is used to perform remote control of control equipment, the field operator may not notice the remote control, possibly leading to an accident. In addition, a communication delay or interruption may occur depending on the network environment, and remote control of control equipment cannot be performed normally in some cases. Before using these functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

Use GOT remote functions effectively in your shop floor

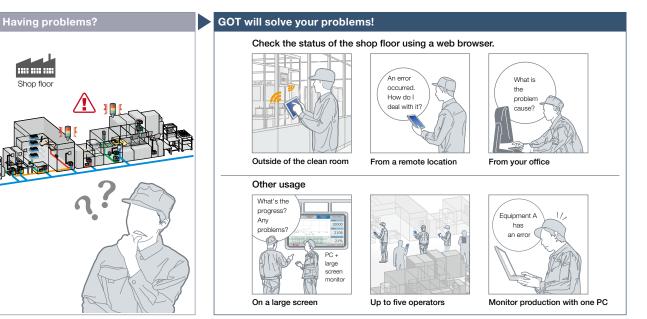


Monitor your shop floor from a remote location



GOT Mobile

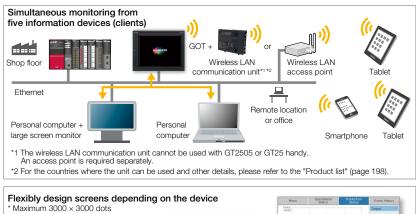
■ GOT Mobile function (setting GT27/GT25 as a server)



Check the equipment status using a web browser on tablets from a remote location. Up to five information devices can simultaneously access a single GOT so that you can view and operate a different screen on each device.

 * Up to five clients can connect to one GOT at the same time.

* A web browser (Google Chrome™, Safari®, or Microsoft Edge® NEW) is required on information devices.



 Flexibly design screens depending on the device.

 * Maximum 3000 × 3000 dots

 Image: Streen screen sc

Specification details and restrictions

GOT2000 Series GOT Mobile Function

Application Examples

(L(NA)08464ENG).

Can I check the equipment status from a

Via GOT at the shop floor, connected devices can be monitored from computers

* A separate license (GT25-WEBSKEY-D) is required.

Safe with security and exclusive control

Exclusive control of authorization prevents

and tablets in a remote location.

accidents that might be caused by

simultaneous operations in the same

network. (GOT network interaction*1)

Set passwords to control monitoring and

Operation. *1 For the details, please refer to page 44.

remote location?

Function features

* For the necessary option devices, please refer to the "Function list" (page 166).

Validated devices and environments of the GOT Mobile function For the details, please contact your local sales office.
 Objects, figures, functions that can be used with the GOT Mobile function There are some restrictions on the objects, figures, and functions that can be used on

information devices such as tablets. For the details, please refer to the relevant product manual.

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• Precautions for the GOT Mobile function Please refer to the Technical Bulletin No. GOT-A-0090 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

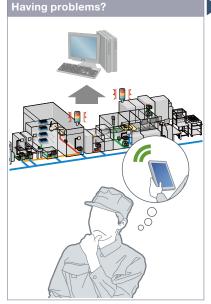
Desiphorol devices ______

• Peripheral devices For the VPN connection and the peripheral devices compatible with other Mitsubishi industrial devices, please contact your local sales office.

Recommended industries Supported GOT types Supported devices Automotive SEMICON, LCD Electronics GT27 GT25 GT23 PLC Servo Inverter F & B Pharma Plant GT21 GS21 SoftGOT Robot CNC

Monitor the **GT** SoftGOT 2000 + GGT **Mobile** entire factory from a remote location

■ GOT Mobile function (setting GT SoftGOT2000 as a server)



Is there any way to collectively monitor the information separately stored in each device? How can I check the collected data on a mobile terminal?

Function features

Via GT SoftGOT2000, connected devices can be monitored from information devices such as tablets. By using the GOT Mobile function on GT SoftGOT2000, it is possible to build a larger monitoring system and collectively monitor the information.

* A separate license (SGT2K-WEBSKEY-D) is required.

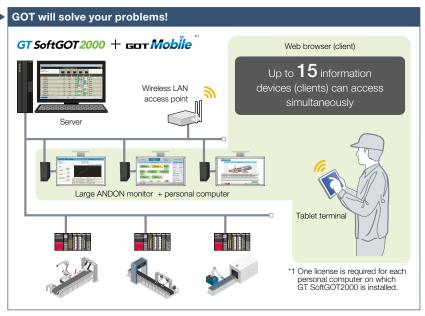
For the details, please refer to the GOT2000 NEWS Vol.17 (L(NA)08822ENG).

Specification details and restrictions

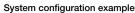
• Using GT SoftGOT2000 with the GOT Mobile function It is recommended to use GT SoftGOT2000 (multiple channels). The GOT Mobile function cannot be used with Windows® 7, Windows® 8.1 (no edition), or Windows® 10 Home edition.

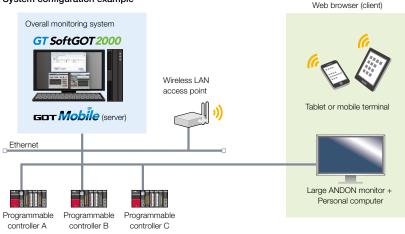
• Precautions when using the Pocket GOT mobile app with the GOT Mobile function The maximum number of connectable devices are 15 for the GOT Mobile function and 20 for the Pocket GOT mobile app. However, when using these function and the app together, the maximum number of connectable devices is 20. Example: total of 20 devices including 15 devices for the GOT Mobile function and 5 devices for the Pocket GOT mobile app

Recommended industries	Supported GC	OT types		Supported d	levices	
Automotive SEMICON, LCD Electronics				PLC	Servo	Inverter
F & B Pharma Plant			SoftGOT		Robot	CNC



The GOT Mobile function can be added to the overall monitoring system that utilizes GT SoftGOT2000 in order to setup multiple ANDON monitors, monitor the shop floor from your office, and visualize the entire factory. The equipment status can also be checked on mobile terminals so that you can perform maintenance work smoothly.





Using with the GOT Mobile function (setting GT27 or GT25 as a server)

Just by switching the GOT Mobile connection destination server, it is easy to switch monitoring targets between the overall monitoring system monitored by GT SoftGOT2000 and the status of equipment connected to GOT.

operation

Shop floor

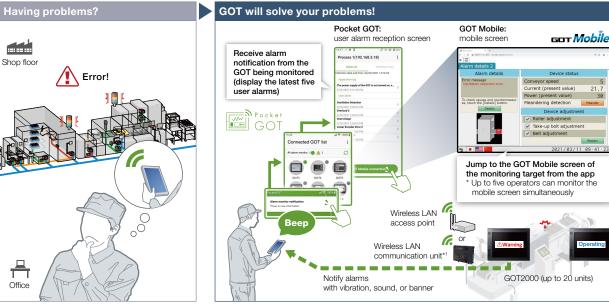
Ţ

Office

Notify the user alarm to a mobile terminal



Pocket GOT mobile app: User alarm reception function (Interaction function with the GOT Mobile function)



How can I check the problem occurred in the shop floor quickly?

Function features

By installing the Pocket GOT mobile app on a mobile terminal, the app collects the status of user alarms occurring in the monitored GOT and notifies you with vibration, sound, or banner when a new alarm is detected.

On the user alarm reception screen of Pocket GOT, you can check a list of the latest five alarms that are currently occurring. Pocket GOT can register up to 20 GOTs.

The status of the GOT where the user alarm has occurred can be checked on the mobile terminal by starting the GOT Mobile function from the user alarm reception screen.

With the user alarm reception function of Pocket GOT, a mobile terminal can receive the alarm notification when a user alarm occurred in the shop floor.

*1 The wireless LAN communication unit cannot be used with GT2505, GT25 handy, or a personal computer where GT SoftGOT2000 is installed. An access point is required separately.

Usage



Monitor up to 20 GOTs



Up to 20 operators can share information



Receive alarms in a remote location (notified with vibration, sound, or banner)

For the details, please refer to the GOT2000 NEWS Vol.16 (L(NA)08808ENG).

Specification details and restrictions

● OS supported by Pocket GOT Android[™]

• Precautions for the Pocket GOT mobile app Please refer to the Pocket GOT Operating Manual (SH(NA)-082512ENG) on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

• Precautions when using the wireless LAN communication unit with Pocket GOT When using the wireless LAN communication unit on GOT, up to 5 mobile terminals can receive alarms from a single GOT simultaneously. To enable 20 mobile terminals to receive alarms from a single GOT, it is required to use a wireless LAN router. • Precautions when using the Pocket GOT mobile app with the GOT Mobile function (setting GT SoftGOT2000 as a server) Up to 20 information devices can be used.

For the	details,	please	refer t	o page	37.

Supported	GOT types	
••		

Supported devices

Recommended industries	Supported GOT types	Supported d	evices
Automotive SEMICON, LCD Electronics	GT27 GT25	GT23 PLC	Servo Inverter
F & B Pharma		SoftGOT	Robot CNC

Check the shop floor image GDT Mobile using a web browser

GOT Mobile function (placing a hyperlink on a mobile screen)

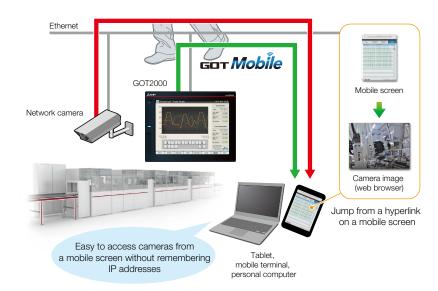


Production line has stopped due to machine errors! Can I check the image of the shop floor?

<image><section-header>

By using the GOT Mobile function, the shop floor can be checked with video. It is easy to check live camera images and recorded files in a network camera by using a web browser on a personal computer or a tablet.

* Supported web browsers are Google Chrome™, Safari®, and Microsoft Edge® NEW

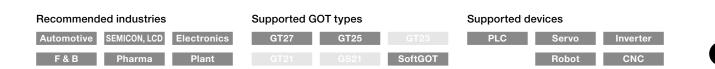


Function features

Start a web browser on a personal computer or a tablet using the GOT Mobile function, and check live camera images and video feeds saved in a network camera on the browser. It is easy to access cameras without remembering their IP addresses by setting them on a mobile screen in advance. * To use mobile screens, the GOT Mobile function license (GT25-WEBSKEY-□ or SGT2K-WEBSKEY-□) is required separately.

4

Support system



Easily monitor multiple devices from a remote office

GOT will solve your problems!

Network

camera

Personal computer or MELIPC MI3000

HUB



Collected data is displayed in a list or chart

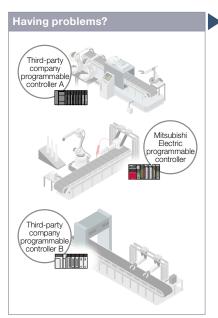
Camera and on-site GOT images are displayed

native

iquipm



IQ Monozukuri Process Remote Monitoring



How can I effectively use the information separately stored in each device?

Function features

IoT technologies can be easily introduced to the shop floor, and the information of multiple equipment can be collected, visualized, and managed collectively. The template project for GT SoftGOT2000 makes it easy to startup systems. In addition, a dedicated setting tool (Process Remote Monitoring setting tool) can be used to collectively manage (read/ edit/write) the information of operators registered on on-site GOTs.

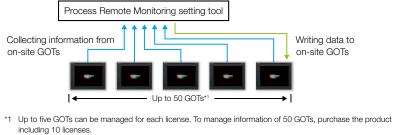


A MIRAR Bi0. For more details, please refer to the iQ Monozukuri Process

from each equipment via an on-site GOT. Displaying efficiency visually Displaying graphs GT SoftGOT 2000 Displaying a list Process Remote Monitoring setting tool

Manufacturing process and productivity of the whole production can be improved by

analyzing the data aggregated and visualized on GT SoftGOT2000. The operation status of the shop floor and the information such as operation logs and alarms can be collected



Recommended industries

Remote Monitoring catalog

(L(NA)08674ENG).



Supported	GOT	types

GT25 **GT27 GT23** SoftGOT GT21* GS21

Supported only by the models equipped with an Ethernet port.

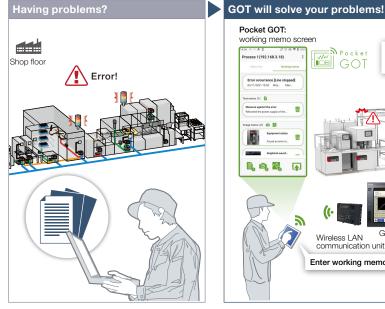
Supported devices



Share the information of the **PROCESS** MONITORING shop floor with pictures and text



Pocket GOT mobile app: Working memo function (Interaction function with the iQ Monozukuri Process Remote Monitoring)



How can I share the information of errors and daily inspection results easily?

Pocket GOT: Process Remote Monitoring: working memo screen working memo check screen Share information Pocket using Process ss 1(192.168.3.18) GOT Remote Monitoring B 俞 Û 🖹, 🔍 🕵 **F** PROCES REMOTE 5 GOT2000 Wireless LAN GC communication unit*1 GT SoftGOT 2000 Enter working memos on mobile terminal *1 The wireless LAN communication unit cannot be used with GT2505, GT25 handy, GT23, GT21, or GS21.

Use a mobile terminal to take pictures of the shop floor and create a working memo with text. The information such as the daily check results and error handling results can be computerized, automatically collected, and collectively managed.

Function features

By installing the Pocket GOT mobile app on a mobile terminal, working memos can be created to share the information such as the daily check results of on-site equipment and the status report at the error occurrence.

The working memos can save text, pictures taken, and images saved in the mobile terminal.

The created working memos can be sent and saved to the connected GOT. iQ Monozukuri Process Remote Monitoring collects the working memos saved in the GOT, allowing you to check them collectively on a personal computer and to create reports for each date, time, and place.

* Supported by GT2107-WTBD, GT2107-WTSD, GT2104-RTBD, and GT2103-PMBD among GT21 models.

Usage



Send work reports to GOT



GOT

Take pictures of the equipment or the GOT screen and send them to



Work reports and equipment pictures saved in multiple (up to 50) GOTs can be displayed collectively on a PC for data management

For the details. please refer to the GOT2000 NEWS Vol.16 (L(NA)08808ENG).



Specification details and restrictions

● OS supported by Pocket GOT Android[™]

• Precautions for the Pocket GOT mobile app Please refer to the Pocket GOT Operating Manual (SH(NA)-082512ENG) on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Recommended industries



Supported GOT types



Supported devices



Implement the ANDON system easily



Support system

design

Support system operation

iQ Monozukuri ANDON



Can I implement the ANDON system at low cost and visualize the shop floor?

Function features

If you have equipment that can be connected to GOT2000, an ANDON system can be configured easily.

The dedicated setting tool (Contents Publisher) allows you to set/change the display of ANDON screens even without programming

knowledge for configuring the ANDON system. * iQ Monozukuri ANDON package is required separately.

Monitoring multiple devices with DB (database) mode

The production information of multiple lines is collected in real-time in ANDON DB (database), and displayed on the ANDON monitor by transferring the data via GOT.

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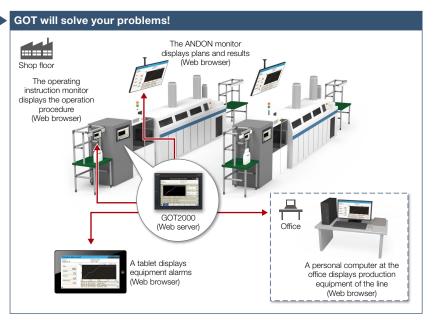




For more details, please refer to the iQ Monozukuri ANDON catalog (L(NA)08487ENG).

Recommended industries

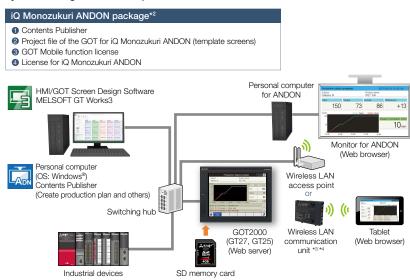




iQ Monozukuri ANDON is a simple ANDON* package that easily enables visualization of shop floor using GOT2000 and a general-purpose web browser. Information obtained from production equipment is displayed on the monitor for ANDON via GOT2000, allowing sharing of the shop floor information to enable visualization.

* ANDON system visualizes information (production status, alarms) that is obtained from production equipment. sharing the information among site workers, a manager, and a maintenance personnel.

System configuration example*1



- *1 The system configuration of the DB (database) mode differs from this example. For the details, please refer to the catalog on the left.
- *2 Used by transferring to a personal computer, GOT2000 or an SD memory card.
- *3 The wireless LAN communication unit cannot be used with GT2505 or GT25 handy.
- An access point is required separately

*4 For the countries where the unit can be used and other details, please refer to the "Product list" (page 198).

Supported GOT types

Supported G	OT types	Supported d	evices	
GT27	GT25	PLC	Servo	Inverter
			Robot	CNC

Operate the GOT from a remote PC or tablet

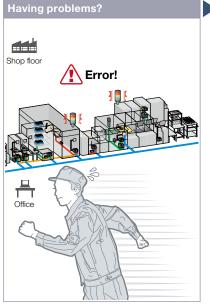
GOT will solve your problems!



4

GOT Solutions - GOT Web-based Remote Solutions

■ VNC server function



A problem occurred at the shop floor in a remote location. Can I check the situation without visiting the shop floor?

Function features

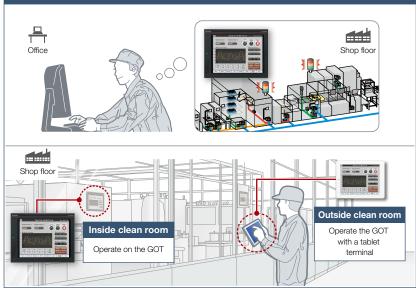
Remotely view and operate the GOT screen from information devices such as a personal computer and tablet. No dedicated screens are required. * A separate license (GT25-VNCSKEY) is required.

Same operations as GOT

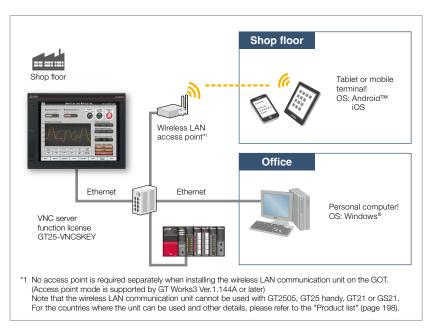
Utility functions including the sequence program monitor and the network monitor are also supported on computers and tablets.

Safe with security and exclusive control

Exclusive control of authorization prevents accidents that might be caused by simultaneous operations in the same network. (GOT network interaction*) Set passwords to control monitoring and operation. * For the details, please refer to page 44.



You do not need to visit the shop floor. Monitor and operate the GOT from a remote location, and you can take corrective actions quickly. * One client can connect to one GOT at the same time.



* For the necessary option devices, please refer to the "Function list" (page 166).

• Applicable VNC client software Please refer to the Technical Bulletin No. GOT-A-0069 on the Mitsubishi Electric Factory Automation Global website

(www.MitsubishiElectric.com/fa/).

• Peripheral devices For the VPN connection and the peripheral devices compatible with other Mitsubishi Electric industrial devices, please contact your local sales office.

Recommended industries

Specification details and restrictions

Supported C	GOT types
-------------	-----------



Supported devices

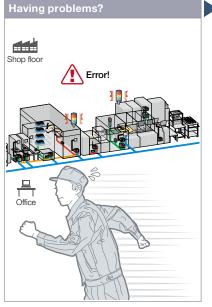


GT2107-W only. For the details, refer to the function descriptions above.

Remote monitoring with SoftGOT



SoftGOT-GOT link function



A problem occurred at the shop floor. Can I check the situation in my office?

Function features

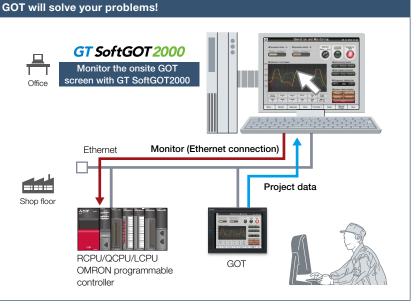
Read project data from the GOT connected to GT SoftGOT2000 via Ethernet, and you can monitor the devices that are connected to the GOT on different screens from the one shown on the GOT.

* A separate license key (GT27-SGTKEY-U) is required.

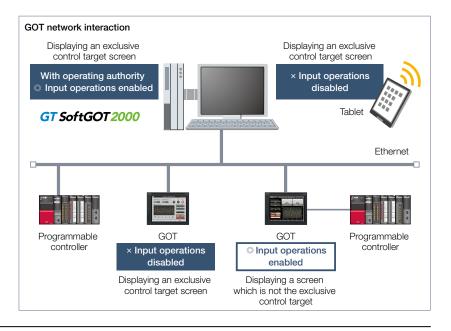
Safe with security and exclusive control

Exclusive control of authorization prevents accidents that might be caused by simultaneous operations in the same network. The exclusive control can be enabled/disabled for each screen. (GOT network interaction)

Set passwords to the GOT project data and prevent invalid access.



Without creating screens for remote monitoring, check the shop floor on GT SoftGOT2000 by reading project data from GOT at the shop floor.



* For the necessary option devices, please refer to the "Function list" (page 166).

Specification details and restrictions

• Supported devices and connection types The devices supported by the SoftGOT-GOT link function varies depending on the connection types. For the details, please

refer to the relevant product manual.

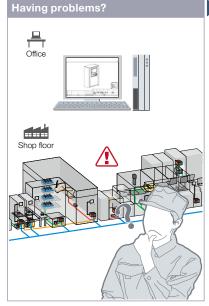
• Functions that can be used in GT SoftGOT2000 In GT SoftGOT2000, some functions available in GOT2000 series cannot be used. For the details, please refer to the relevant product manual.

Recommended	industries		Supported G	OT types		Supported de	evices	
Automotive SE	MICON, LCD	Electronics	GT27	GT25		PLC		
F & B	Pharma	Plant			SoftGOT			

Operate the PC from a remote GOT

Remote personal computer operation function (Ethernet)





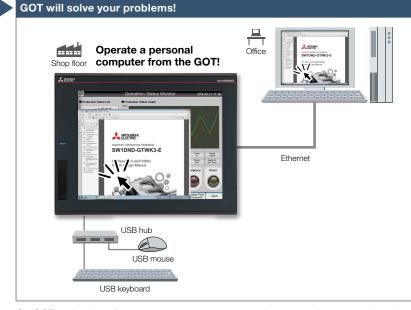
How can I view manuals and drawings in a personal computer in my office from the shop floor?

Function features

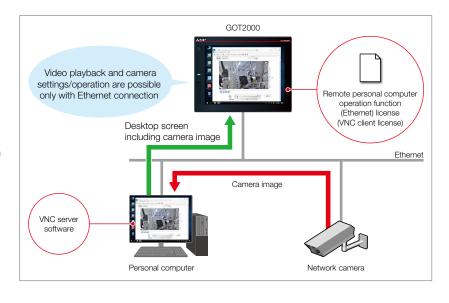
Connect GOT at the shop floor to a personal computer in a remote location via Ethernet. This allows you to remotely operate the personal computer and view manuals and access the web browser on the computer^{*1}.

The screen of a personal computer, which is playing back a video feed, can be displayed on GOT by setting the remote personal computer operation function license (paid) on the GOT.*1 In addition, if a setting application is built in a camera, adjustment (such as zoom and rotation) can be done and the camera can be operated from a personal computer on the network.

*1 A separate license (GT25-PCRAKEY-D) is required.



On GOT at the shop floor, you can operate a personal computer in a remote location and view manuals and drawings in the computer. Connecting a USB mouse/keyboard to the front (or rear) USB interface makes it easier to operate the personal computer.



Specification details and restrictions

 * For the necessary option devices, please refer to the "Function list" (page 166).

• Validated VNC server Please refer to the Technical Bulletin No. GOT-A-0110 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Recommended industries	Supported G	OT types	Supported de	evices	
Electronics F & B Plant	GT27	GT25	PLC	Servo	Inverter
				Robot	CNC

Video Interactive Solutions



Support visualization of the shop floor with various video solutions

The GOT2000 Series provides various solutions using video to meet the needs on the shop floor such as checking video feeds from a remote location and saving camera images before and after an error occurrence.

litere	Display image	s from a video camera (or a PC on GOT	Output images display f		Operate a network camera and record images with GT SoftGOT2000
ltem	Multimedia function	Video display function	RGB display function	Video outp	ut function	Camera link application
	Multimetia function	video display function	nub uispiay function	RGB output	HDMI output	NEW
	P.47	P.48	P.48	P.48	P.48	P.49
Number of connectable devices	One multimedia device per GOT unit	Four video devices per GOT unit	Two RGB output devices* per GOT unit * One device per GT27-V4R1-Z	One display per GOT unit	One display per GOT unit	One camera per PC
Display camera image on GOT	0	0	_	_	_	 (Display with an application)
Record camera image on GOT	0	× Not supported	-	_	-	-
Play camera image on GOT	0	× Not supported	-	_	_	— (Play on GX VideoViewer)
Display PC screen on GOT	-	-	0	-	-	-
Operate PC from GOT	_	_	O* * PC remote operation driver is required	-	_	-
Display separate screen from GOT	-	-	-	O NEW	O NEW	-
Record at an error occurrence	0	_	_	_	_	O GT SoftGOT2000 detects an alarm and records camera image
Required option	Multimedia unit (GT27-MMR-Z), CF card	Video input unit (GT27-V4-Z) or Video/RGB input unit (GT27-V4R1-Z)	RGB input unit (GT27-R2)* ¹ or Video/RGB input unit (GT27-V4R1-Z)	RGB output unit (GT27-ROUT)	Digital video output unit (GT27-VHOUT)	GT SoftGOT2000 License Key (GT27-SGTKEY-U)

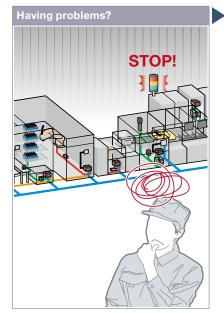
Comparison of video interactive solutions

 $^{\star 1}\,$ When using GT27-R2, the RGB display function cannot be used to display the RGB screen.

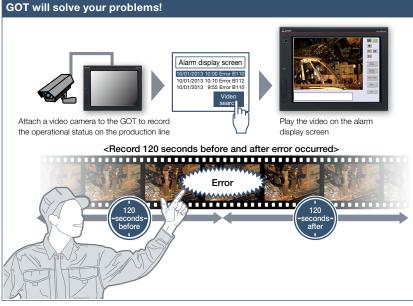
Record/Playback videos to see what happened at shop floor







Production line has stopped due to machine errors! It's difficult to identify the cause of the error on the unattended line.

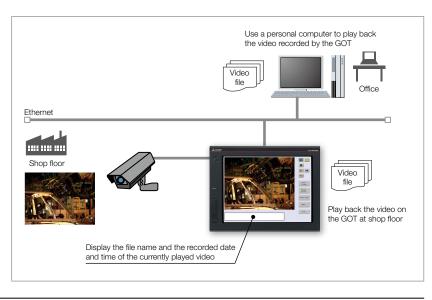


GOT records the operational status on the production line and plays back the recorded video image. Visual clarity of the image helps you to analyze the cause of the error.

Function features

GOT displays and records the image taken by a video camera connected to the multimedia unit and plays back the saved video image.

To set the timing of recording, you can use a device of a controller as a trigger. * Multimedia unit (GT27-MMR-Z) and CF card are required.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

Recording specifications

Before-after event recording This allows the recording of a total of 240 seconds of images, including 120 seconds before and after a system error occurs. (When event trigger device turns on).

Standard modeThis allows two types of recording modes: Recording size VGA (640 × 480), frame rate maximum 15fps; Recording size QVGA (320 × 240), frame rate maximum 30fps.Long-time modeThis allows the recording for long hours of approximately two days. Recording size QVGA (320 × 240), frame rate 15fps.

• Unit installation One of the following units can be installed: multimedia unit, video input unit, digital video output unit, RGB input unit, video/RGB input unit, or RGB output unit.

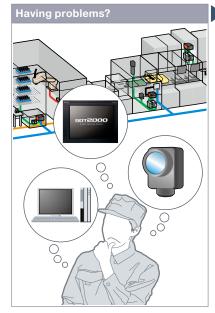
Recommended industries	Supported GOT types	Suppor	ted devices
Automotive SEMICON, LCD Electronics	GT27* GT25	GT23 PLC	Servo Inverter
F & B Pharma			Robot CNC
	* Excluding GT2705.		

GOT Solutions - Video Interactive Solutions

Monitor shop floor using video images



■ Video display/RGB display/Video output function



There is not enough space for multiple monitors at the shop floor.

Function features

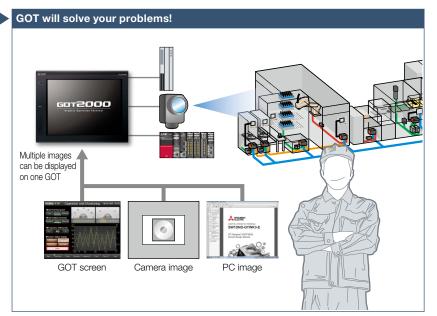
GOT acts as a monitor to display images which are recorded by a video camera or saved in a personal computer.

Video input*1

Input images of up to 4 video cameras can be simultaneously displayed on the GOT. You can zoom in or zoom out the images and save the GOT images (hard copy images).

RGB input*2

RGB images can be displayed on the GOT. Simultaneous display of two screens is also possible^{*3}. You can use various effects for the images such as rotation, and gesture operations can be used for zooming in/out (400%) and scrolling objects^{*3}.



GOT acts as a monitor to display images which are recorded by a video camera or saved in a personal computer, and thus there is no need to have additional monitors.

RGB output*4

The GOT screen can be displayed on a commercially available large display even when the backlight of the GOT is off.

HDMI output*5

Connect an HDMI compatible monitor and display GOT screens on the large monitor. Since the GOT screen can be displayed on a large monitor, it is recommended for ANDON applications. NEW

Different screens can be displayed on GOT and an external display by using the RGB output unit or the digital video output unit.



*1 Video input unit (GT27-V4-Z) or video/RGB input unit (GT27-V4R1-Z) is required.

- *2 RGB input unit (GT27-R2) or video/RGB input unit (GT27-V4R1-Z) is required.
- *3 Supported by GT27-R2 only.*4 RGB output unit (GT27-ROUT) is required.
- *5 Digital video output unit (GT27-NOUT) is required.
- 5 Digital video output unit (Crt27-Vr1001) is required.

* For the necessary option devices, please refer to the "Function list" (page 166).

Unit installation One of the following units can be installed: multimedia unit, video input unit, digital video output unit, RGB input unit, video/RGB input unit, RGB output unit
 Applicable peripheral devices For the details, please refer to the Technical Bulletin No. GOT-A-0064 on the Mitsubishi Electric Factory Automation Global website
 (www.MitsubishiElectric.com/fa/).

Recommended industries

Specification details and restrictions



Supported GOT type

Supported devices



Monitor shop floor using video images



work

operation



design

NEW

Camera link application



The line has stopped. How can I check the camera image before and after the error occurrence?

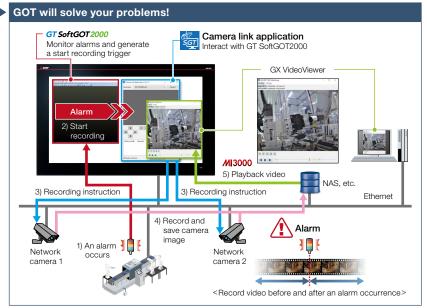
Function features

Images from network cameras can be recorded before and after an alarm occurrence by using the alarm of an onsite equipment as a trigger.

If multiple alarms occurred simultaneously, camera images of multiple alarms can be recorded all at once.

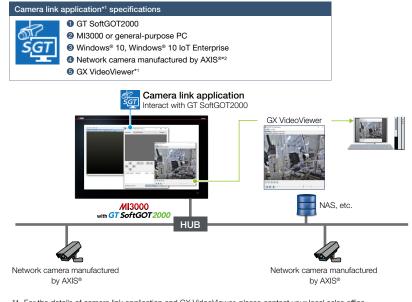
Since the destination to record camera images can be set to a network storage such as a personal computer or NAS, the recorded files can be viewed at a time.

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By using the camera link application and GX VideoViewer, the shop floor can be checked with video.

System configuration example



For the details, please refer to the GOT2000 NEWS Vol.12 (L(NA)08739ENG).

*1 For the details of camera link application and GX VideoViewer, please contact your local sales office. *2 Usable network cameras are the same as those for the camera recording package. For the details, please refer to the Technical Bulletin "Network cameras supporting the Camera recording package" (FA-A-0306).

Specification details and restrictions

• Supported connection types Ethernet

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

	Supported G	OT types		Supported de	evices	
ics				PLC		
			SoftGOT			

GOT Drive Control (Servo) Interactive Solutions















GOT **Drivë**

The GOT2000 provides advanced functionality and improves connectivity with Mitsubishi servo systems. It provides some functions of MR Configurator2 (supporting MR-J5 and MR-J4).

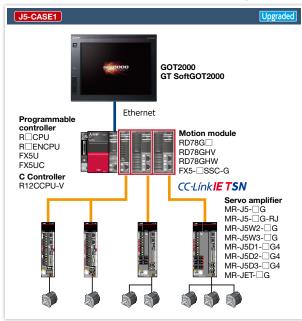
The GOT Drive enhanced functionality is designed to eliminate need for additional hardware, software and suits customers' applications to speed up system startup, improve maintenance and troubleshooting.



For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions catalog (L(NA)08335ENG). GOT2000 Series Drive Control Interactive Solutions Movie

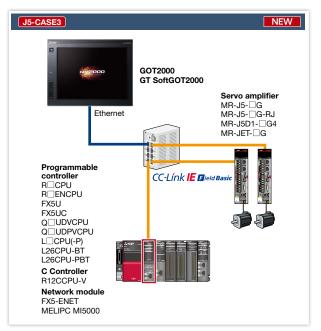


■ GOT and servo system configurations



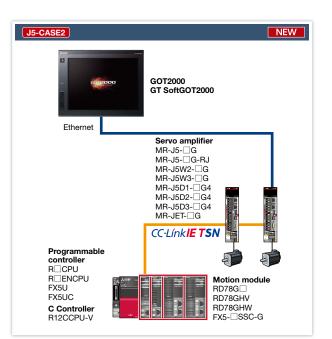
System configuration features

- Command interface: CC-Link IE TSN
- Control mode: positioning control, direct control
- Program
 Programmable controller CPU: ladder, FBD/LD, ST language
- Motion module: ST language • Max. number of control axes RG78G: 4/8/16/32/64 axes RG78GH^{*1}: 128/256 axes FX5-\[SSC-G: 4/8 axes
- *1 When MR-JET-G servo amplifiers are used for all axes, the maximum number of the control axes is 120.



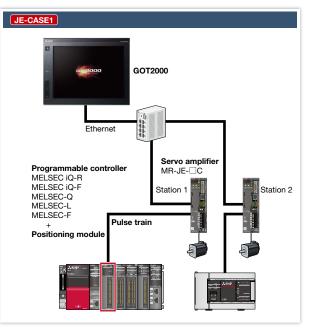
System configuration features

- Command interface: CC-Link IE Field Network Basic
- Control mode: positioning control, direct control
- Program
- Programmable controller CPU: ladder, FBD/LD, ST language • Max. number of control axes: 16/32/64 axes



System configuration features

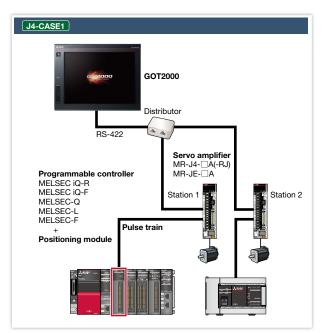
- Command interface: CC-Link IE TSN
- Control mode: positioning control, direct control
- Program Programmable controller CPU: ladder, FBD/LD, ST language Motion module: ST language
- Max. number of control axes RG78G: 4/8/16/32/64 axes RG78GH*1: 128/256 axes FX5-□SSC-G: 4/8 axes
- *1 When MR-JET-G servo amplifiers are used for all axes, the maximum number of the control axes is 120.



System configuration features

- Command interface: pulse train
- Control mode: positioning control, speed control, torque control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8 axes





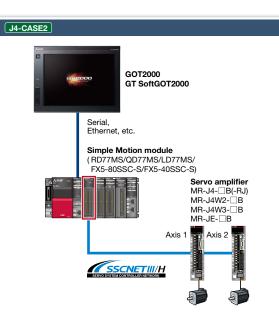
System configuration features

- Command interface: pulse train
- Control mode: positioning control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8/32 axes
- * Cannot be used in the MR-J3 compatible mode.



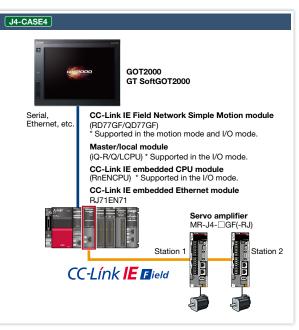
System configuration features

- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening & press-fit control, cam control
- Program: motion program (SFC)
- Max. number of control axes: 16/32/64 axes
- * Cannot be used in the MR-J3 compatible mode.



System configuration features

- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening & press-fit control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 2/4/8/16 axes
- * Cannot be used in the MR-J3 compatible mode



System configuration features

- Command interface: CC-Link IE Field Network
- Control mode: positioning control, synchronous control, speed control, torque control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 4/8/16/32 axes

Drive control interactive functions and supported models

Supported drive control interactive functions differ depending on the system configuration. For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions catalog (L(NA)08335ENG).

Check the servo amplifier data GDT Drive on GOT when an alarm occurs



Drive recorder function



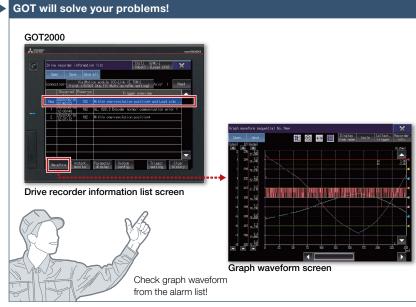


In case of a system failure, is there a simple and quick way to check the problem cause?

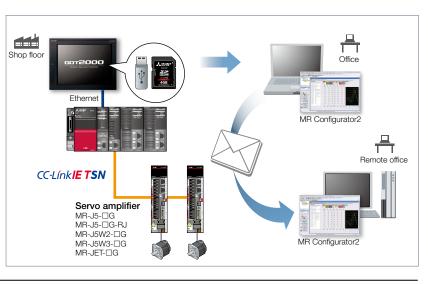
Function features

GOT can be used to display the screen equivalent to the drive recorder of MR Configurator2.

Easily check the servo data (motor current, position command, etc.) on GOT without using a personal computer. The servo data can be stored on the GOT's SD memory card or USB memory. After obtaining the servo data, you can send it to an office in a remote location and quickly solve the problem.



Servo data such as motor current and position command before and after the alarm occurrence can be read from the servo amplifier and displayed in a waveform or a list form.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

• Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G), MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□B), MELSERVO-JET Series (MR-JET-□G)

• Supported connection types*1 Connection via Motion controller/Simple Motion module, connection via Motion module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens The switch to start the drive recorder function has been added to the sample screen. Sample screens are included in GT Works3.

For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later.

Recommended industries	Supported GOT types		Supported d	evices	
Automotive Electronics F & B	GT27 GT25			Servo	
Pharma		SoftGOT*			
	* Supported by GT SoftGOT2000 (Mu	ltiple channels)			

Support startup and maintenance GDT Drive of servo systems

GOT will solve your problems!



Servo amplifier graph function



Can I adjust gains while checking the waveform data at the shop floor?

The data of each axis (speed, torque values, etc.) are shown in up to 64 lines in a graph using a window screen on a user-created screen.

The servo amplifier graph function visualizes changes in operation of the equipment due to gain adjustment. Without using a personal computer, you can adjust gains and check parameter information efficiently.

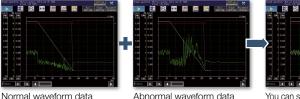
Servo amplifier graph waveform



Since gain adjustment and parameters check can be performed without using a personal computer, servo systems can be started up efficiently. Superimposing normal and abnormal waveform data and analyzing them helps in equipment maintenance.

Displaying waveform data item names

By checking item names of waveform data while viewing the graph waveform screen, problems can be identified quickly.



Abnormal waveform data

You can see the difference at a glance by superimposing normal

and abnormal waveform data

Analyze the waveform data of a servo amplifier

In the servo amplifier graph function, a specific period of time can be set in the collection and trigger setting window. Then the waveform data that occurred within the set period and the parameter information can be buffered in a servo amplifier, and can be read out and displayed on the GOT. By saving a normal waveform data as a history, you can compare it with the data measured in the same conditions by superimposing them; therefore it is useful for equipment maintenance.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

- Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G), MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B), MELSERVO-JE Series (MR-JE-DB), MELSERVO-JET Series (MR-JET-DG)
- Supported connection types*1 Connection via Motion CPU/Simple Motion module*2*3, connection via Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- *2 When a programmable controller is connected to a servo amplifier through a Simple Motion module (SSCNET III/H), GOT and a Motion CPU (Q Series) or GOT and CR800-Q (Q172DSRCPU) cannot be directly connected via Ethernet.
- *3 When a servo amplifier is connected to the GOT through a Motion CPU (Q Series), use a connection type other than the CC-Link IE Field Network connection between the CPU and the GOT. When the Motion CPU and the GOT are connected by CC-Link connection (intelligent device station), set [MELSEC (compatible)] to the transmission path.

Recommended industries

Supported	GOT	types	
Supported	GOT	types	

Automotive SEMICON, LCD Electronics Plant

GT27	GT25

Supported devices

		Servo		GT25	GT27	
GT21 GS21 SoftGOT* Robot CNC		Robot	SoftGOT*	GS21	GT21	

* Supported by GT SoftGOT2000 (Multiple channels) only.



Support servo system maintenance

Machine diagnosis function





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Without using a personal computer, you can predict the deterioration of the machine for

How can I predict deterioration of a machine if it has excessive load and is frequently accelerated?

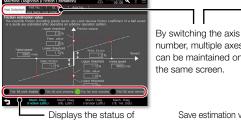
Function features

GOT displays the machine diagnosis screen that is equivalent to the maintenance functions of MR Configurator2. You can easily check the machine diagnosis information of servo amplifiers on the GOT without a personal computer.

Failure prediction function

When connecting to MR-J5 or MR-J4-GF(-RJ), the servo amplifier detects and notifies deterioration of drive components.

By grasping the failure prediction information of the production line and performing maintenance at appropriate time, operation rate of the whole production line can be increased.



Displays the status of friction failure prediction.

Machine diagnosis screen (friction estimation) (MR-J5)*1

easy preventive maintenance.

GOT displays machine diagnosis information (friction estimation) and friction failure prediction diagnosed by the servo amplifier.

*1 Ready to use sample screens (VGA) are available.



Save estimation values to a file and compare the values to check the deterioration of the machine.

Machine diagnosis screen (MR-J4)*1

GOT displays estimation values (machine friction, torque vibration, etc.) that are collected by the machine diagnosis function of the servo amplifier. When any of the estimation values exceed the threshold values that are set on the GOT, the numerical value display area turns red.

Specification details and restrictions

• Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G, MR-J5D1-□G4, MR-J5D2-□G4, MR-J5D3-□G4), MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□G(-RJ), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)

• Supported connection types*1 Direct connection with a servo amplifier (RS-422, Ethernet), connection via Motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module, connection via Motion module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• Machine diagnosis In order to estimate the friction by using the machine diagnosis function, the machine must be operated at high speed as well as at low speed for at least 150 seconds each. For the details, please refer to the manual of the servo amplifier being used or the help of MR Configurator2.

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

F&B

ectronics

MR-J5- G: Ver.1.245F or later, MR-J4- A(-RJ): Ver.1.126G or later, MR-J4- B(-RJ), MR-J4- M2- B, MR-J4-W3- B: Ver.1.155M or later, MR-JE- B: Ver.1.150G or later.

Recommended industries

Automotive	E
Pharma	

Supported GOT types

•		
GT27	GT25	GT23
GT21	GS21	SoftGOT*

Supported devices



* Excluding some devices and connection types. For the details, please refer to the "Connectable model list" (page 187).

GOT Solutions - GOT Drive Control (Servo) Interactive Solutions



MR-J5 sample screens

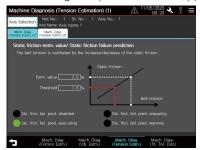
Sample screens for MELSERVO-J5 are available on GOT to make it easy to display parameters and to set various diagnosis modes, which are necessary for startup, adjustment, and maintenance work. In addition to the screens described below, test operation, operation monitoring, and others are also supported.

[Application] Predicting ball screw and linear guide failure

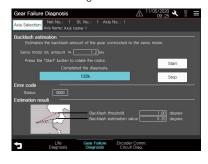
Machine Diagnosis (Friction Estimation)

[Application] Predicting belt failure

Machine Diagnosis (Tension Estimation) (1)



[Application] Monitoring gear wear Gear Failure Diagnosis



Machine Diagnosis (Vibration Estimation)

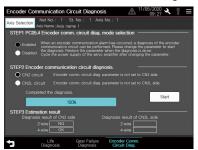


Machine Diagnosis (Tension Estimation) (2)



[Application] Identifying whether the failure is caused by an encoder or a servo amplifier

Encoder Communication Circuit Diagnosis



Specification details and restrictions

• Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G)

F&B

- Supported connection types*1 Connection via Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

MR-J5-DG: Ver.1.245F or later.

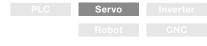
Pharma

Recommended industries Automotive Electronics

Supported GOT types



Supported devices



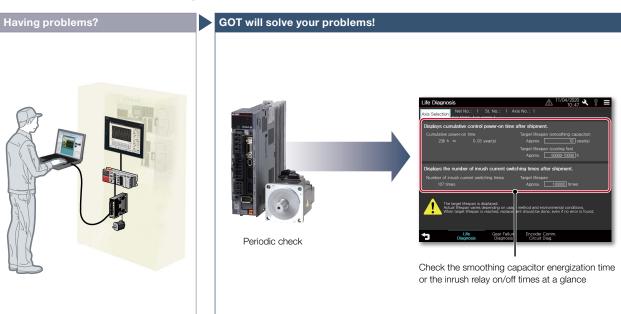
* Supported by GT SoftGOT2000 (Multiple channels) only.



Support servo system maintenance



Servo amplifier life diagnosis function



A problem occurred at the shop floor. Can I check the situation in my office?

Function features

GOT displays the amplifier life diagnosis screen that is equivalent to the maintenance functions of MR Configurator2.

You can easily check the internal data of servo amplifiers on the GOT without a personal computer.

Without creating screens for remote monitoring, check the shop floor on GT SoftGOT2000 by reading project data from GOT at the shop floor.



Life diagnosis screen*1

Check cumulative operation time, on/off counts of inrush relay on GOT. In addition, replacement timing of servo amplifier components (capacitor, relay) can be displayed on the GOT.

*1 Ready to use sample screens (VGA) are available.

Specification details and restrictions

• Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G, MR-J5D1-□G4, MR-J5D2-□G4, MR-J5D3-□G4), MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□G(-RJ), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)

• Supported connection types*1 Direct connection with a servo amplifier (RS-422, Ethernet), connection via Motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module, connection via Motion module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

MR-J5-□G: Ver.1.245F or later, MR-J4-□A(-RJ); Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

Supported GOT types

Supported	devices
-----------	---------

Automotive Electronics F & B	GT27	GT25	GT23	Servo	
Pharma	GT21	GS21	SoftGOT*		

* Excluding some devices and connection types. For the details, please refer to the "Connectable model list" (page 170).



Support startup and adjustment GDT Drive of servo systems



One-touch tuning function/Tuning function



It's difficult to determine an optimum gain when setting up the device. It's bothersome to connect a personal computer every time I adjust a gain.

Function features

GOT displays the tuning screens that are equivalent to the adjustment functions of MR Configurator2.

You can easily adjust gain parameters of servo amplifiers on the GOT without a personal computer.



GOT can be used to adjust gains of servo amplifiers. Since the adjustment can be performed in parallel with other setup work, you can efficiently set up the system.



One-touch tuning screen*1

Just a single touch on the switch on the GOT screen. You can check tuning results such as settling time and overshoot amount.

Tuning (2)				▲ 11/0	10:44	8 =
Axis Selectio	Net No.: 1 Axis Name : Axis n	St. No.: 1 Ax ame 1				
	ad to motor inertia tor inertia ratio (PB0		.01 🔽 🔺	(times)(0.00-		
┝	STEP3 Response Auto tuni (PA09 RS	na response		E		
Ŀ	STEP3 Gain para Model control gain Position control gain Speed control gain Speed integral comp	(PB07 PG1) (PB08 PG2) (PB09 VG2)	499.0 🔽 2244 💟	 [rad/s](1. [rad/s](1. [rad/s](20 [ms](0,1 - 	0 ~ 2000.0)) ~ 65535)	
			2 OVA)	0 [%](0		
						Back
5	Tuning	Filter Setting	Vib. Su Ctr	ppression I. Set.	One-touch Tuning	

Tuning screen*1

Supported devices

To obtain higher performance, you can perform fine tuning of gain parameters in the tuning screen.

1 Ready to use sample screens (VGA) are available. The screen images above are the sample screens of MR-J5-DG. The sample screens are different from those for MR-J4-DA and MR-J4-DB.

Specification details and restrictions

● Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G, MR-J5D1-□G4, MR-J5D2-□G4, MR-J5D3-□G4), MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-DB(-RJ), MR-J4W2-DB, MR-J4W3-DB, MR-J4-DGF(-RJ)), MELSERVO-JE Series (MR-JE-DA, MR-JE-DB)

• Supported connection types*1 Direct connection with a servo amplifier (RS-422, Ethernet), connection via Motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module, connection via Motion module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

MR-J5-DG: Ver.1.245F or later, MR-J4-DA(-RJ): Ver.1.126G or later, MR-J4-DB(-RJ), MR-J4W2-DB, MR-J4W3-DB: Ver.1.155M or later, MR-JE-DB: Ver.1.150G or later, MR-J4-DA(-RJ): Ver.1.126G or later, MR-J4-DA(-RJ): V

Recommended industries

Supported GOT types

Automotive Electronics F & B	GT27	GT25	GT23	Servo	
Pharma	GT21	GS21	SoftGOT*		

* Excluding some devices and connection types. For the details, please refer to the "Connectable model list" (page 170).

Graphically monitor servo systems



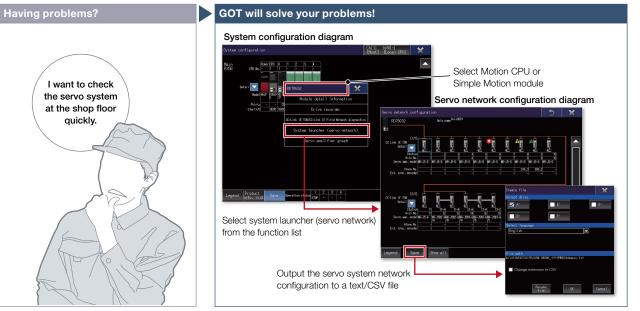


4

GOT Solutions - GOT Drive Control (Servo) Interactive Solutions

System launcher (servo network) function



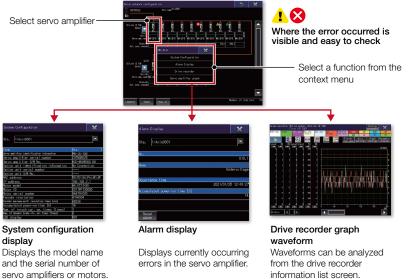


How can I check the status of servo systems on GOT?

Function features

GOT generates the servo network configuration diagram for the number of used axes so that the servo system can be checked in a graphical screen. By starting the drive recorder from the servo network configuration diagram, you can quickly identify the error cause and solve the problem. A graphical configuration diagram indicates the status of servo amplifier.

Start various functions from the system launcher (servo network diagram)



Supported devices

Servo

Specification details and restrictions

● Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G), MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B), MELSERVO-JET Series (MR-JET-□G)

- Supported connection types*1 Connection via Motion controller/Simple Motion module, connection via Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- Extended functions that can be started from the system launcher (servo network) System launcher, drive recorder, servo amplifier graph

Recommended industries

Supported GOT types

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported by G	T SoftGOT2000) (Multiple channels)

GT25

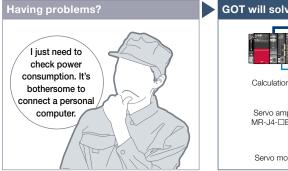
SoftGOT*

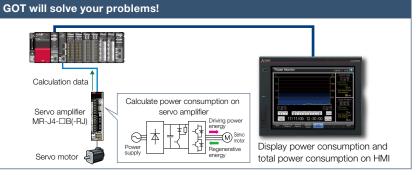
GT27

Support startup, maintenance, GDT Drive and cost reduction



Power monitor





To manage specific consumption and observe demand. power consumption should be checked easily

GOT can be used to check (visualize) power consumption and total power consumption without using measuring equipment such as a power meter or a personal computer.

Specification details and restrictions

Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G, MR-J5D1-□G4, MR-J5D2-□G4, MR-J5D3-□G4), MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□G(-RJ)), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
 Supported connection types*** Direct connection with a serve amplifier (RS-422, Ethernet), connection via Motion controller/Simple Motion module, connection via CC-Link

IE Field Network Simple Motion module/master or local station module, connection via Motion module

please refer to the "Connectable model list" (page 170).

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170). • How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions. MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

F&B

Upgraded

Supported GOT types Electronics Automotive SEMICON, LCD GT25 Pharma **GS21** * Excluding some devices and connection types. For the details,

SoftGOT*

Servo

Supported devices

Alarm display function



cause when an alarm occurs on a servo amplifier?

be checked on GOT. Use the document display function* to display the servo amplifier user's manual and quickly check troubleshooting procedures on the GOT. * Not supported by GT23, GT21, and GS21,

Specification details and restrictions

• Target models MELSERVO-J5 Series (MR-J5-□G(-RJ), MR-J5W2-□G, MR-J5W3-□G, MR-J5D1-□G4, MR-J5D2-□G4, MR-J5D3-□G4), MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-DB(-RJ), MR-J4W2-DB, MR-J4W3-DB, MR-J4-DGF(-RJ)), MELSERVO-JE Series (MR-JE-DA, MR-JE-DB) • Supported connection types*1 Direct connection with a servo amplifier (RS-422, Ethernet), connection via Motion controller/Simple Motion module, connection via CC-Link

IE Field Network Simple Motion module/master or local station module, connection via Motion module For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.
The sample screens are supported by the following GT Works3 versions.
MR-J5-□G: Ver.1.245F or later, MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Supported GOT types Recommended industries

Supported devices

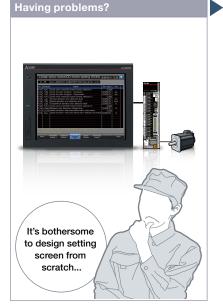
Automotive SEMICON, LCD Electronics	GT27	GT25	GT23	PLC	Servo	
F & B Pharma	GT21	GS21	SoftGOT*			
	* Evoluding como do	vices and connection	turoon. Ear tha dataila			

Excluding some devices and connection types. For the details, please refer to the "Connectable model list" (page 170).

Support startup and adjustment GDT Drive of servo systems

Servo amplifier monitor function

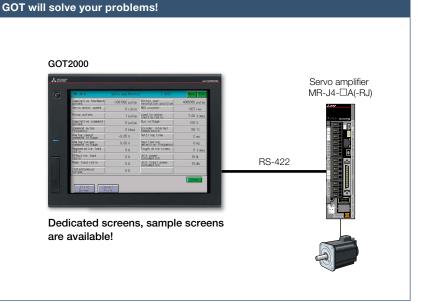




How can I check the status of servo amplifier easily?

Function features

Various monitoring functions, changes to the parameter settings, and test operations can be performed on the servo amplifier connected to the GOT.



In a system which outputs pulse trains, the GOT can be connected to a servo amplifier in a serial connection to perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.

MR-J4-A	Servo amp.Monitor		Menu End
Cumulative feedback	-1061092 pulse	Within one- revolution position	4066386 pulse
Servo motor speed	0 r/min	ABS counter	-627 rev
Droop pulses	1 pulse	Load to motor	7.00 times
Cumulative command	0 pulse	Bus voltage	310 V
Command pulse	0 kbps	Encoder internal	58 °C
Analog speed command voltage	-0.05 V	Settling time	2 ms
Analog torque command voltage	0.00 V	Oscillation detection frequency	0 Hz
Regenerative load	0 %	Tough drive times	0 times
Effective load	0 %	Unit power consumption	10 W
Peak load ratio	0 %	Unit total power consumption	10 Wh
Instantaneous	0 %		

Dedicated screens*1

Without creating screens, parameters can be monitored and written from dedicated screens.

*1 Not supported by GT21.



Sample screens (VGA)*2

Various sample screens such as monitoring, parameter settings, test operations are available and they are all customizable.

*2 Sample screens for GT21 are available for GT2104-RTBD.

Specification details and restrictions

● Target models MELSERVO-J4 Series (MR-J4-□A(-RJ))

* Supported functions of the servo amplifier monitor vary depending on the servo amplifier model.

• Supported connection types Direct connection with a servo amplifier

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

MR-J4-DA(-RJ): Ver.1.126G or later.

Recommended industries

Automotive Electronics F&B Pharma

Supported GOT types



* Restrictions apply to some functions. For the details, refer to the function descriptions above.

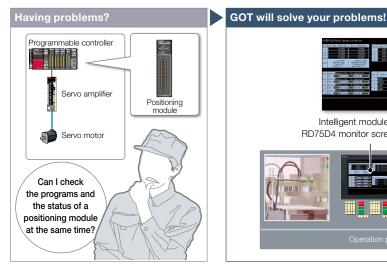
Supported devices





Support startup and maintenance GDT Drive of servo systems

Intelligent module monitor function



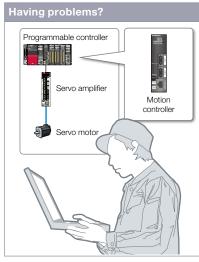
How can I debug positioning systems efficiently?

Intelligent module monitor GX Works3 RD75D4 monitor screen (example) ladder monitor screen (example) USB connection

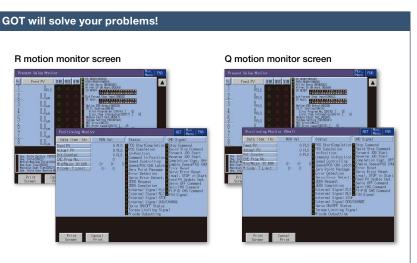
You can debug positioning systems efficiently by displaying the data such as the status, parameters, and the I/O information of positioning module axes on GOT while monitoring positioning sequence programs on a personal computer simultaneously. * For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries	Supported G	OT types	Supported devices				
Automotive SEMICON, LCD Electronics	GT27	GT25	PLC	Servo			
F & B Pharma							

R motion monitor function/Q motion monitor function



Can I check and change servo parameters of a Motion controller easily?



In a dedicated screen on GOT, it is possible to monitor and set parameters of Motion controllers that are installed on the same base unit.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries	Supported G	OT types	Supported				
Automotive SEMICON, LCD Electronics	GT27	GT25					
F & B Pharma							

devices

Servo	

Support maintenance

work



Support debug of motion SFC programs

Support maintenance work

R motion SFC monitor function

GOT will solve your problems!



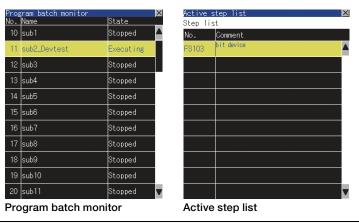
How can I check motion SFC programs without a personal computer?

Function features

GOT can be used to monitor motion SFC programs and device values of a Motion CPU (MELSEC iQ-R Series, MELSEC Q Series) which is connected to the GOT. Viewing the program batch monitor or active step list enables you to check the complete status at a glance.

Program tabs evtest Touch a tab to display the program. X0 = X0 X1000 = X1000 X1FFF = X1FFF Step/transition The active step is highlighted. Touch the step to display the detail program window. The SFC diagram scrolls automatically along with the progress of active steps. Detail program window FEDC B Displays the program and the present value of the calculation control step/transition.

GOT can monitor motion SFC programs in the Motion CPU (MELSEC iQ-R Series, MELSEC Q Series) and display them in the SFC diagram format.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

• Target models Motion CPU (MELSEC iQ-R Series*1, Q Series*2*3) *1 The R motion SFC monitor function can be used when the following conditions are satisfied

- OS software package: SW10DNC-RMTFW
- OS type: standard function OS or G-code controlled add-on library
- To use G-code control, the G-code add-on library (paid) must be installed
- 2 Use the following production number Motion CPU when using the Q172CPU or Q173CPU.
 Bus connection, direct CPU connection Q172CPU: production number K******* or later
 Q173CPU: production number K******* or later Other than bus connection, direct CPU connection Q172CPU: production number N****** or later Q173CPU: production number M****** or later
- 3 Operating system software packages for Motion CPU (Q Series) should be SV13 or SV22. Use a Motion CPU with the following OS installed when using the Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN.
- SW6RN-SV13Q: 00H or later (00E or later for using the Q172CPU or Q173CPU with the bus connection or direct CPU connection)
 SW6RN-SV22Q: 00H or later (00E or later for using the Q172CPU or Q173CPU in the bus connection or direct CPU connection)

- * Production of Q172CPU, Q173CPU, Q172CPUN, and Q173CPUN has been discontinued. Supported connection types*1 Ethernet connection*2, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE
- Field Network connection, CC-Link [ETSN connection, CC-Link connection, bus connection, MELSECNET connection 1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

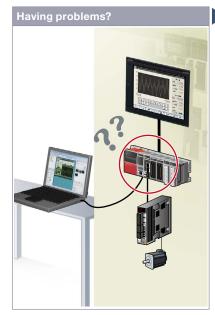
*2	When the CC-Link	IE Field Network	Ethernet ada	apter module is used	, the motion SI	FC monitor :	function cannot	be used.

Recommended industries Supported devices Supported GOT types Automotive Plant Servo

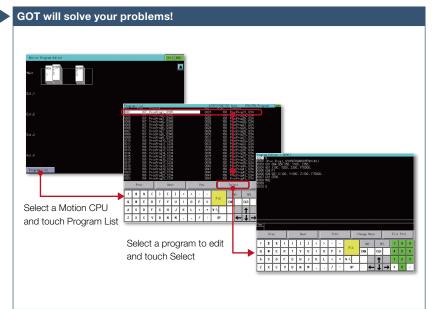
Support startup and maintenance GDT Drive of servo systems

Motion program editor function





An error occurred during production. Can I edit the motion programs (G-code programs) at the shop floor?

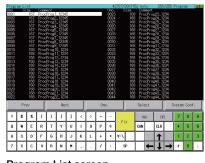


GOT can be used to edit motion programs (G-code programs). You can edit the necessary motion program by selecting it from the program list.

Function features

Motion programs (G-code programs) can be edited in the dedicated screen of the motion program editor function of the GOT.

- Supported by GOTs with a resolution of SVGA or higher.
- To use G-code control, the G-code add-on library (paid) must be installed.



Program List screen

GOT lists the G-code programs stored in the connected Motion CPU (MELSEC iQ-R Series).

20002 20003 20004 20005 20006 20007 20006 20009 20010	(Pro 691 601 604 609 609 609 609	2 Pro 364 0 X100. Pl	#1 12: 00 %5 Y200 -100.	34567 0. Y10 . Z300														
/iew																		
/iew	Pri	27			Na	×t			Ed	it		Char	se Men	u		Exi	: Edi	t
11600	Pro	ev X	()	Nez [×t]	<	>	Ed	it -		Char	ge Men INS	DE	a.	Exil	Edi	9
	1	_	(R) T	Nez [Y		<u>د</u>	> 0			FIX	Char	INS		a	Exit 7 4	-	
•	\$	x	(R F) Т Ө	t	1			-	-	FIX	L	INS	DE	2	7	8	9

Program Editor screen

G-code programs listed on the GOT can be edited in the line editor format.

Specification details and restrictions

• Target models*1 R64MTCPU/R32MTCPU/R16MTCPU (valid when the G-code add-on library is used)

- *1 When all the following conditions are satisfied, the motion program editor is available.
- The operating system software is SW10DNC-RMTFW Ver.14 or later.

The add-on library is Gcode Ctrl.adm Ver.0102 or later.

- Any item other than [Not Used] is set in the G-code control setting in the basic setting.
- Supported connection types Ethernet connection

Recommended industries



Supported GOT types



function descriptions above.

Supported devices



Having problems?

The resolution must be changed to fit the GOT.

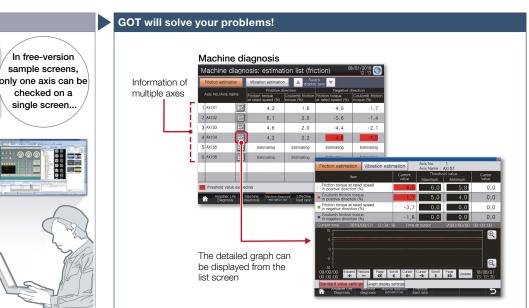
Compilation of interactive functions with servos

■ GOT Drive Plus (paid template screens)

In free-version

checked on a

single screen.



Is there an easier way to visualize multiaxes servo systems?

Function features

GOT Drive Plus is the paid GOT project data that can visualize servo systems. The data is available for all resolutions of GT27 and GT25 models. Since the template screens for the GOT Mobile function are provided, you can promptly start the remote monitoring of servo systems. The template project can be used as is depending on the system configuration, thus reducing time for screen creation.

For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions GOT Drive Plus catalog (L(NA)08594ENG).



Specification details and restrictions

- Target models MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4-W2-□B, MR-J4W3-□B)
- Supported connection types*1 Connection via Motion controller/Simple Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- Lineup of project data WXGA (1280 × 800) WVGA (800 × 480) XGA (1024 × 768) VGA (640 × 480) SVGA (800 × 600) 5.7" VGA (640 × 480)

Recommended industries

Supported GOT types

Recommended industries	Supported GOT types	5	Supported devices				
Automotive SEMICON, LCD Electronics	GT27 GT25	GT23		Servo			
F & B Pharma Plant							

With GOT Drive Plus, data of 16 axes can be displayed on one screen without changing the resolution setting of the GOT project data. By monitoring multiple servo amplifiers in the equipment on one screen, you can comprehensively check the servo system.

Quick remote monitoring with the GOT Mobile function template screens

Operation monitor			Alarm history	Alarm history			Machine diagnosis: graph (friction)						
loig No. 3 Ava ramaAXISS			- Occurred	As .	100	Friction estimation		Version	automatic		A state		
			00/01/12 10:44	1 203 Encoder Normal Con. En	vir 1						8		
Cumulative Forefloids Palaes	743125543 million	DATA10	08/01/18 16:32	1 201 Frender Normal Dans Fr	war 1	Aire.	Same -	-lander	100	100			
Gene Moor Could	-010		06/01/18 16/22	1 201 Encoder Normal Dam. En	ner 1	Alcone ways on real sent manufacture and	4.5	0.0	6,0	0,0			
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Cormand Pulse Pressency	Matth Apublich	Same error Im				Control Street of the Assort	-6.1	6.6	1.1	1.1			
Ingenerative Lossil Raise	9 L	Drive and Television					196						
Mexive coed Ratio	5.5	Siding him				County Million Toron in Angelia Million		0,9	2.0	0.0			
Pyek Land Patto	2.5	Cachenologia				Cross safety					1		
Internetion Torge	2.5	NAME OF TAXABLE PARTY.				Count Assesses Car Intel Manual Room		Corner: Non-					
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ME Counter	+17104 744	United Property in	the second se					1			14		
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Features comparison

O: Reduced screen design/working man-hours x: Increased screen design/working man-hours

		O. Heddeed screen design/ working man not		a moreadea corecin acorgin working main near				
		GOT Drive Plus		GOT Drive				
Item		Works3 Add-on License for GOT2000 Enhanced Control (Servo) Project Data (SW1DND-GTSV-MZ)	Sample screens included in GT Works3					
Screen design man- hours	0	Screens are designed for every resolution of GT27 and GT25 and can be used to connect to Motion controllers and Simple Motion modules. The screens can be used as it is.	×	Sample screens are available only for VGA to connect to Simple Motion modules. The layout must be adjusted according to the resolution of GOT to be used as well as the system configuration.				
Multi- axis monitor	0	Up to 16 axes can be monitored at the same time on one screen. [Applicable screens] • Machine diagnosis • Effective load factor • Alarm history * On the screens other than the above, only one axis can be monitored on one screen.	×	Only one axis can be monitored on one screen.				
Remote monitoring	0	Screens for the GOT Mobile function are provided as standard for remote monitoring on tablets and smartphones.	×	Screens for the GOT Mobile function are not available. The users must create the mobile screens.				



Support

maintenance

work



Support system

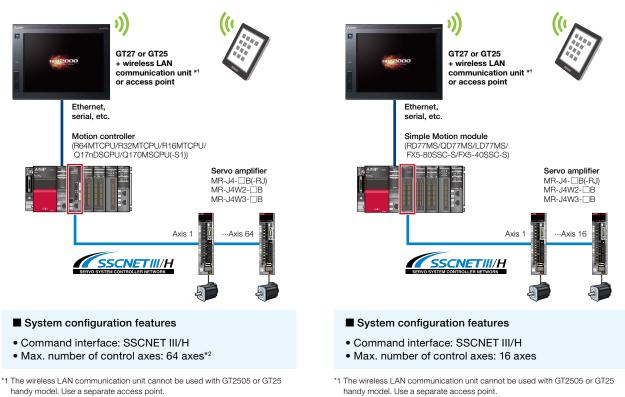
startup/

adjustment

Support system operation

Supported system configurations

Connection via Motion controller

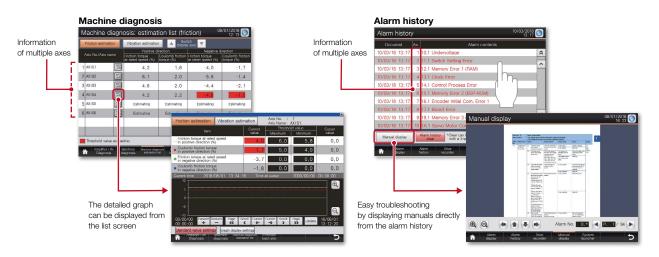


Connection via Simple Motion module

*2 Up to 16 selected axes in total among the 64 axes can be monitored.

Check the entire servo system on one screen

Data of 16 axes can be displayed on one screen. By monitoring multiple servo amplifiers in the equipment on one screen, you can comprehensively check the servo system.





GOT Drive Control (Inverter) Interactive Solutions and the second s



GOT and inverter system configurations

CASE 2

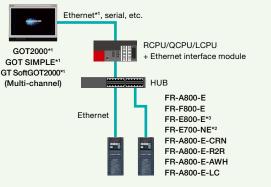
Select the required connection type to match your system configuration. Multiple inverters can be monitored with one GOT by switching the target station number.

CC-Link IE Field Network connection via programmable controller

Ethernet*1, serial, etc RCPU/QCPU/LCPU GOT2000*1 CC-Link IE Field Network GOT SIMPLE*1 master/local module GT SoftGOT2000* (Multi-channel) HUB*2 CC-Línk IE Bield FR-A800-GF*3 FR-A800*3+FR-A8NCE*4 FR-F800*3+FR-A8NCE*4 FR-A800-CRN*3+FR-A8NCE*4 FR-A800-R2R*3+FR-A8NCE*4 FB-A800-I C*3+FB-A8NCE*4

- GT21, GS21, and GT SoftGOT2000 support Ethernet connection only *2 In the CC-Link IE Field Network configuration, select a switching hub by referring to the relevant manual for the programmable controller used. The models with SERIAL "□83******" or later on the rating plate are
- *3
- supported. The FR-A8NCE with SERIAL "□83***" or later is supported. *4

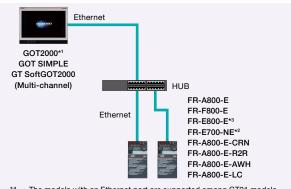
Ethernet connection via programmable controller CASE 4



- GT21, GS21, and GT SoftGOT2000 support Ethernet connection only.
- The models with SERIAL "□88*****" or later (for FR-E700-SC-NNE and FR-E700-SC-ENE, "□89*****" or later) on the rating plate are supported. *2
- *3 Line topology is also supported by FR-E800-E.

For the details, please refer to the GOT2000 Series Drive Control (Inverter) Interactive Solutions catalog (L(NA)08572ENG)

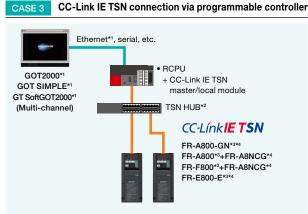
CASE 1 Direct connection with Ethernet



- The models with an Ethernet port are supported among GT21 models. The models with SERIAL " \square 88******" or later on the rating plate are ^1 *2
- supported.

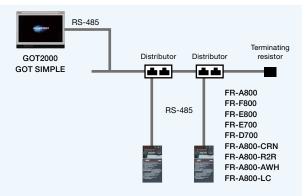
CASE 3

Line topology is also supported by FR-E800-E. *3



- GT21, GS21, and GT SoftGOT2000 support Ethernet connection only. *2 In the CC-Link IE TSN configuration, select a switching hub by referring
- to the relevant manual for the programmable controller used. The models with SERIAL "□96****** or later (made in Japan) or " *3 "□97*****" or later (made in China) on the rating plate are supported. Set the third octet of the inverter's IP address to the network No.,
- and set the fourth octet to the station number.

Direct connection with RS-485 CASE 5





Drive control interactive functions and supported inverter models (GT Works3 Ver.1.270G)

O: Supported x: Not supported △: Only monitorable parameters are supported —: Not applicable ●: Sample screen available

										· · · · · · · ·				
	CASE 1				CAS		CASE 3				CASE 4			
	Ethernet connection				CC-Link IE Field Network connection via programmable controller		CC-Link IE TSN connection via programmable controller				Ethernet connection via programmable controller			
Function	FR-F8	FR-A800-E/ FR-F800-E/ FR-E700-NE FR-E800-E		FR-A800-GF/ FR-A800+FR-A8NCE/ FR-F800+FR-A8NCE		FR-E800-E		FR-A800-GN/ FR-A800+FR-A8NCG/ FR-F800+FR-A8NCG/		FR-A800-E/ FR-F800-E/ FR-E800-E		FR-E700-NE		
	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen ^{*1*3}
Parameter setting (simple mode)	0	•	0	×	0	●* ²	0	•*2	0	×	0	●* ²	0	×
Parameter recipe (simple backup/restoration)	0	•	0	×	0	●* ²	0	●* ²	0	×	0	●* ²	0	×
FA transparent*7	0	-	0	-	O*4	-	×	-	×	-	O*4	-	O*4	-
Batch monitor	0	•	0	×	0	●*2	0	●* ²	0	×	0	●*2	0	×
Operation command	0	•	0	×	○*5	•*2*5	○*5	●*2*5	0*5	×	0	●*2	0	×
Machine diagnosis (load characteristics measurement)	0	•	×	×	○*5	●*2*5	○*5	●*2*5	○*5	×	0	•*2	×	×
Inverter life diagnosis	0	•	0	×	0	•*2	0	•*2	0	×	0	●*2	0	×
Backup/restoration	×	-	×	_	0	_	×	_	×	-	×	-	×	-
Alarm display	0	•	0	×	0	•*2	0	●* ²	0	×	0	●*2	0	×
Document display	0	•	0	×	0	•*2	0	●* ²	0	×	0	●*2	0	×

	CASE 5						FR-A800 Plus Series								
	CASE 5						CASE 1		CASE 2		CASE 4		CASE 5		
	RS-485 connection									CC-Link IE Field Network connection via programmable controller		Ethernet connection via programmable controller		RS-485 connection	
Function	FR-A800/ FR-F800		FR-E800 FR-E700/ FR-D700				FR-A800-E-CRN/ FR-A800-E-R2R/ FR-A800-E-AWH / FR-A800-E-LC		FR-A800-CRN+ FR-A8NCE/ FR-A800-R2R+ FR-A8NCE/ FR-A800-LC + FR-A8NCE		FR-A800-E-CRN/ FR-A800-E-R2R/ FR-A800-E-AWH / FR-A800-E-LC		FR-A800-CRN/ FR-A800-R2R/ FR-A800-AWH / FR-A800-LC		
	Function available	Sample screen *1*3*6	Function available	Sample screen*1*3	Function available	Sample screen *1*3*6	s Series	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3	Function available	Sample screen*1*3
Parameter setting (simple mode)	0	•	0	●* ²	0	•	0 Plus	0	×	0	×	0	×	0	×
Parameter recipe (simple backup/restoration)	0	×	0	●* ²	0	×	3-A80	0	×	0	×	0	×	0	×
FA transparent*7	O*4	-	0*4	-	0*4	-	Ľ.	0*8	-	O*4	-	○*4*8	-	○*4*8	-
Batch monitor	0	•	0	●* ²	Δ	•		0	×	0	×	0	×	0	×
Operation command	0	•	0	●* ²	0	•		0	×	○*5	×	0	×	0	×
Machine diagnosis (load characteristics measurement)	0	×	0	•*2	×	×		0	×	○*5	×	0	×	0	×
Inverter life diagnosis	0	•	0	•*2	Δ	•		0	×	0	×	0	×	0	×
Backup/restoration	×	-	×	-	×	-		×	-	×	-	×	-	×	-
Alarm display	0	•	0	•*2	Δ	•		0	×	0	×	0	×	0	×
Document display	0	•	0	●* ²	0	•		0	×	0	×	0	×	0	×

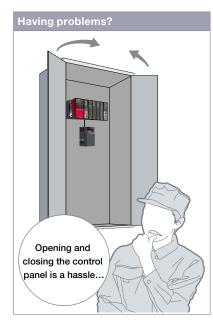
The sample screen is the project data that is included in GT Works3 (Ver.1.235V or later). Sample screens are not supported by GT23, GT21, GS21, and GT SoftGOT2000. The sample screen for CASE 1 can be used by changing the controller setting into the one for the system configuration to be used. If the sample screen of the required inverter is not available, monitoring is possible by creating a project and setting the inverter parameters and devices in the *1 *2 *3

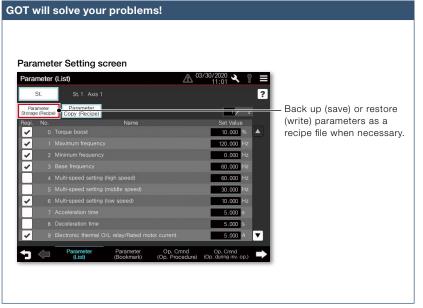
The sample screen of the required instruction available, informating is possible by clearing a project and setting the numerical displays and lamps on the user's screen. The function can be used when GOT and personal computer are connected with USB. Settings need to be changed so that the CPU devices assigned to RY link devices can be controlled directly from GOT. The sample screen monitors one specific inverter. Switching inverters by selecting a station number is not supported. Not supported by GT SoftGOT2000. The FA transparent function is not supported by FR-A800-E-AWH and FR-A800-AWH. *4 *5 *6 *7 *8

Support startup and adjustment GT Drive of inverters



Parameter settings (simple mode)/Parameter recipe (simple backup/restoration)





We want to set the parameters without opening the control panel!

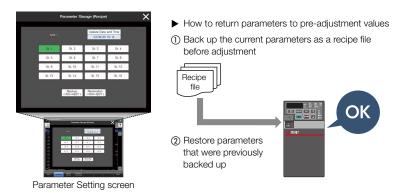
Use GOT to adjust the inverter's simple mode parameters. Since there is no need to open the control panel, the adjustment work efficiency can be increased.

Function features

GOT can be used to adjust parameters of inverters easily. Since the pre-adjustment parameters can be backed up or restored with the GOT, systems can be started up efficiently.

Parameter settings (simple mode)

Use GOT to adjust the inverter's simple mode parameters. The parameter names can be confirmed on a list, so the required parameters can be easily found and adjusted.



Parameter recipe (simple backup/restoration)

The current inverter parameters can be backed up (saved) as a recipe file using the GOT. To return the parameters to the pre-adjustment state while starting up and adjusting the inverter, just restore (write) the parameters that were previously backed up (saved). * Ready to use sample screens (VGA) are available. The screen image differs depending on the model of the inverter.

Supported devices

Inverter

Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-A800-GN, FR-E800(-E), FR-F800(-E), FR-E700(-NE), FR-D700, FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-A800(-E)-AWH, FR-A800(-E)-LC

• Supported connection types*1 Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module, connection via CC-Link IE TSN master/local module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-E800(-E): Ver.1.235V or later, FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries

Supported GOT types



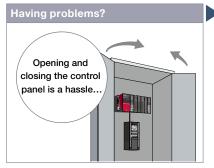
GT27	GT25	GT23
GT21	GS21	SoftGOT*

* Supported by GT SoftGOT2000 (Multiple channels) only.

Support startup and adjustment GDT Drive of inverters



Batch monitor



We want to monitor the inverter status without opening the control panel!

GOT will solve your problems! Batch Monitor screen CC-Línk IE Bield

The inverter's current values such as the output frequency, output current, and output voltage can be monitored with the GOT without preparing the personal computer or directly confirming the inverter.

Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-A800-GN, FR-E800(-E), FR-F800(-E), FR-F700(-NE), FR-D700, FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-A800(-E)-AWH, FR-A800(-E)-LC

• Supported connection types*1 Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module, connection via CC-Link IE TSN master/local module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

only.

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-E800(-E): Ver.1.235V or later, FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries Supported GOT types Supported devices Automotive SEMICON, LCD Electronics GT27 GT25 GT23 Plant GT21 GS21 SoftGOT* * Supported by GT SoftGOT2000 (Multiple channels)

Operation command



We want to start up the system while confirming the inverter's operation!

The inverter operation commands can be issued from the GOT. Since the system operation can be confirmed while monitoring the inverter's output frequency and output current values, the startup work efficiency can be increased.

Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-A800-GN, FR-E800(-E), FR-F800(-E), FR-E700(-NE), FR-D700, FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-A800(-E)-AWH, FR-A800(-E)-LC

• Supported connection types*1 Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module, connection via CC-Link IE TSN master/local module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-E800(-E): Ver.1.235V or later, FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries

.



Supported G	iOT types	
GT27	GT25	GT23

GT21 GS21

Supported devices

	Inverter
	CNC

* Supported by GT SoftGOT2000 (Multiple channels) only.

SoftGOT*

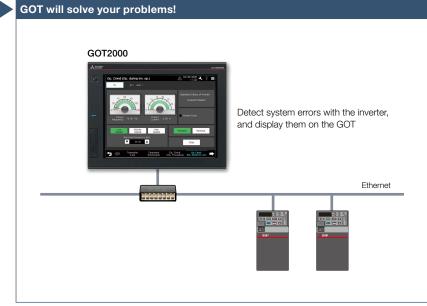
Support maintenance of inverters





Machine diagnosis (load characteristics measurement)





We want to detect clogged filters and clogged pipes!

Detect system errors with the inverter, and display them on the GOT. If the load is out of the normal range, an error indicator lamp lights up so that it is useful to perform quick troubleshooting.

Function features

<Possible error causes>

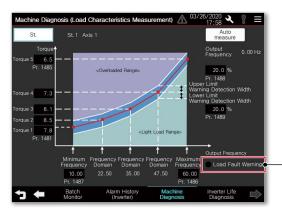
clogged pipe, etc.

blade, idle run, etc.

In overload range: clogged filter,

■ In light load range: broken belt, broken

The relation of output frequency and torque in the normal state can be saved in the inverter, and used to check whether the operation is taking place with a normal load. If the result is out of the normal range, an error or warning is output so that it is useful to detect system errors and perform maintenance work.



The lamp blinks in yellow when a load fault warning occurs.

Machine Diagnosis (Load Characteristics Measurement) screen

Set the range of frequency to detect load characteristics error and calculate the load characteristics reference value. Set the upper and lower limit warning detection width (threshold value) against the calculated reference value.

Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-A800-GN, FR-E800(-E), FR-F800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-A800(-E)-AWH, FR-A800(-E)-LC • Supported connection types*1 Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module, connection via CC-Link IE TSN master/local module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-E800(-E): Ver.1.235V or later, FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF: Ver.1.200J or later.

Recommended industries

Automotive F&B

Supported G	OT types	
0707	OTOF	OT

9	SEMICON, LCD	Electronics	G
	Pharma	Plant	G

GT21	GS21	SoftGOT*
* Supported by GT	SoftGOT2000 (Mu	ltiple channels)
only.		

Support maintenance of inverters

Got *Drivë*)



Inverter life diagnosis



We want to know the inverter replacement timing!

GOT can be used to monitor the operation status of the inverter's components (main circuit capacitor, control circuit capacitor, cooling fan, etc.) and confirm the replacement timing. Perform predictive maintenance by replacing parts before the inverter fails.

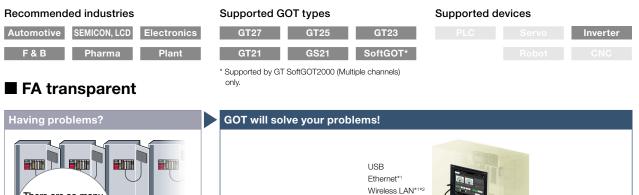
Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-A800-GN, FR-E800(-E), FR-F800(-E), FR-E700(-NE), FR-D700, FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-A800(-E)-AWH, FR-A800(-E)-LC

• Supported connection types*1 Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module, connection via CC-Link IE TSN master/local module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-E800(-E): Ver.1.235V or later, FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.



FR Configurator2

There are so many control panels, opening, closing or adjusting them is a hassle...

We want to perform debugging smoothly!

- By connecting a personal computer with the GOT's USB interface, the inverter can be programmed, started up, and adjusted via GOT. There is no need to open the control panel and change the cable.
- *1 Some system configurations are not supported. For the details, please refer to the connection manual.
 *2 Installation of the wireless LAN communication unit (GT25-WLAN) is required on the GOT. The unit cannot be used with GT2505, GT25 handy, GT23, GT21, and GS21 models. For the countries where the wireless LAN communication unit can be used and other details, please refer to the "Product list" (page 198).

Specification details and restrictions

• Target models FR-A800(-E), FR-A800-GF, FR-E800(-E), FR-F800(-E), FR-E700(-NE), FR-D700, FR-A800(-E)-CRN, FR-A800(-E)-R2P, FR-A800(-E)-LC

the connection manual.

• Supported connection types*1 Connection via a programmable controller, connection via CC-Link IE Field Network master or local station module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

Recommended industries	Supported GOT types	Supported devices
Automotive SEMICON, LCD Electronics	GT27 GT25* GT23*	PLC Servo Inverter
F & B Pharma Plant	GT21* GS21* SoftGOT	
	* Excluding some system configurations or restrictions apply to some functions. For the details, please refer t	0

GOT Drive Control (Robot) Interactive Solutions





IIP

Interactive functions to support startup and maintenance of robots



How can I startup and adjust robots easily?



Use GOT to operate or monitor the status of a robot. The robot can be started and stopped, and the error information can be monitored easily from the GOT.

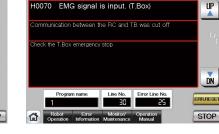
Function features

4

GOT Solutions - GOT Drive Control (Robot) Interactive Solutions

GOT can be used for simple adjustment of robots. The robot error information can also be checked; therefore, it is useful for troubleshooting.

Position Edit DN 🔻 **▲**UP :36.89 -256.32 50.67 0.00 180.00 Current 32.00 1000000 123456 STOP



Position edit screen*1

Position variables of robots can be edited.

The details of errors on robots can be

Robot

Robot error screen*1

checked.

*1 Ready to use sample screens (VGA) are available. Sample screens are not supported by GT23, GT21, and GS21.

Specification details and restrictions

• Target models FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DSRCPU), CR800-D)*1, F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU), CR750-D*1, CR751-D*1), SQ Series CRnQ-700 (Q172DRCPU), SD Series CRnD-700

*1 Sample screens are available. Sample screens are not supported by GT23, GT21, and GS21.

• Supported connection types*1 Ethernet connection, direct CPU connection (serial), serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• How to obtain sample screens For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions.

GT25

GS21

SoftGOT

FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DSRCPU), CR800-D): Ver.1.205P or later, F Series (CR750-D, CR751-D): Ver.1.153K or later.

GT27

GT21

Recommended industries Electronics F & B

Supported	GOT	types

	Supported de	evices
GT23		

Network camera live image display and PTZ adjustment on GOT



work



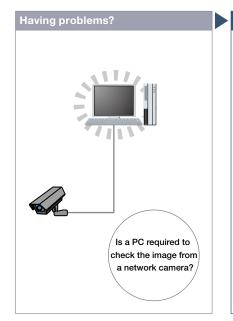
adjustment

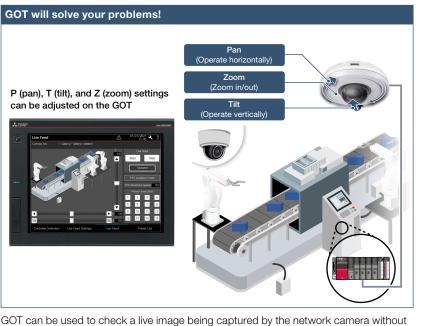
Support system operation

Sample screens for live & PTZ cameras connected via the MELSEC iQ-R camera recorder module

camera.

GOT2000





using a personal computer at the shop floor. P (pan), T (tilt), and Z (zoom) settings can be adjusted on the GOT near the object while checking a live image from the network

MELSEC iQ-R Series

Camera recorder module (1 to 4 modules) IP address: 192.168.3.XXX*1

PoE switching hub

*2 For the supported network cameras, please refer to the Technical Bulletin "Applicable Products for Camera

Etherne

GOT2000 Series, MELIPC MI3000 (GT SoftGOT2000) IP address: 192.168.3.18

Network camera*2 (1 to 4 units)

IP address: 192.168.3.XXX*

System configuration supported by the sample screens

MELSEC iQ-R Series CPU module

M|3000

with GT SoftGOT 2000

*1 Be sure to set a value other than 0, 255, or the one that is used for other equipment.

IP address: 192.168.3.39

How can I check the image from a network camera without using a PC at the shop floor?

Function features

NEW

GOT2000 and GT SoftGOT2000 can be used to display the live image from a network camera via the MELSEC iQ-R camera recorder module and adjust the P (pan), T (tilt), and Z (zoom) settings of the network camera.

Sample screens are available for live image streaming and PTZ adjustment of network cameras that are connected via the MELSEC iQ-R camera recorder module.



For the details, please refer to the GOT2000 NEWS Vol.13 (L(NA)08778ENG).

Specification details and restrictions

• How to obtain sample screens Sample screens are included in GT Works3 Ver.1.250L or later. For the details, please contact your local sales office.

Recorder Module" (FA-A-0326).

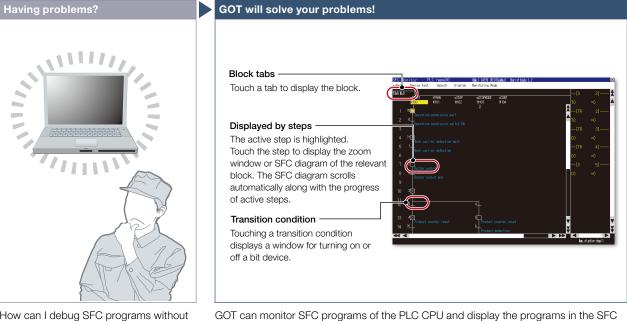
Recommended industries Supported GOT types

AutomotiveSEMICON, LCDElectronicsGT27GT25GT23F & BPharmaPlantGT21GS21SoftGOT

Support debug of SFC programs

Sequence program monitor (SFC) function

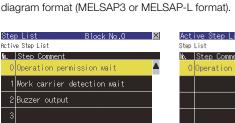




How can I debug SFC programs without a personal computer?

Function features

With the sequence program monitor (SFC), the GOT can monitor SFC programs of controllers, and changing device values of the programs is available. The function can be used to solve problems and maintain programmable controller systems that use SFC programs.



Product counter reset Conveyor operation

4 Product counter reset

Step list

GOT displays steps in the displayed block.

Active step list

GOT displays active steps in the displayed block.

* For the necessary option devices, please refer to the "Function list" (page 166).

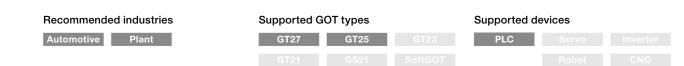
Specification details and restrictions

• Target models QCPU (Q mode), LCPU

• Supported connection types*1 Ethernet connection*2, direct CPU connection (serial)*3, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- *2 When the CC-Link IE Field Network Ethernet adapter module is used, the sequence program monitor (SFC) function cannot be used.

*3 When the Q12PRHCPU or Q25PRHCPU is used, the sequence program monitor (SFC) function cannot be used.

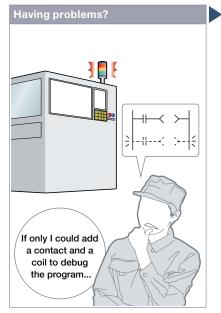




Support RCPU, FX5CPU, QCPU, and LCPU maintenance



Sequence program monitor (Ladder, iQ-R ladder, iQ-F ladder NEW) function



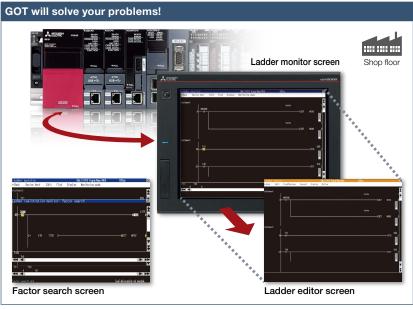
How can I debug and edit ladder programs without a personal computer?

Function features

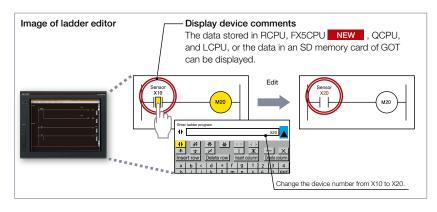
GOT can monitor and edit a sequence program in a controller in the ladder format, and also can change current values of devices.

Sequence program monitor (Ladder monitor)

Sequence programs of RCPU, FX5CPU NEW, QCPU, and LCPU can be monitored in the ladder format.



When an error occurs, monitor the ladder program and identify the cause of error. There is no need for a personal computer on the production floor. Just touch the GOT screen and easily edit the ladder program to make simple changes.



Ladder editor

Sequence programs of RCPU, FX5CPU NEW, QCPU, and LCPU can be edited in the ladder format. Just touch the position where you want to edit (contact, vertical line, etc.) and enter, change, or delete the ladder symbol or device. Vertical lines, horizontal lines, columns, and rows can be inserted or deleted.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

- Target models RCPU*1, FX5CPU, QCPU (Q mode)*2, LCPU, Motion CPU (Q Series)*3, CNC (C80, C70)
- *1 R08PCPU, R16PCPU, R32PCPU, and R120PCPU can be monitored only when the operation mode is the process mode. R08SFCPU, R16SFCPU, R32SFCPU, and R120SFCPU are not supported by the safety program edit and the device test of programmable controller CPUs.
- *2 Excluding the Q02PHCPU, Q06PHCPU, Q12PHCPU, Q25PHCPU, Q12PRHCPU, Q25PRHCPU.
- $^{\star}3~$ Only the PLC CPU area (CPU No.1) in the Q170MCPU(-S1), Q170MSCPU(-S1) can be monitored.

• Supported connection types*1 Ethernet connection*2, direct CPU connection (serial), serial communication connection, CC-Link IE Controller Network connection,

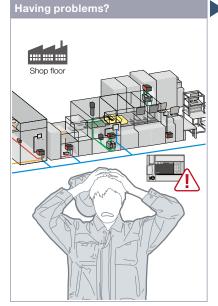
- CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- *2 When the CC-Link IE Field Network Ethernet adapter module is used, the ladder editor cannot be used.

Recommended industries	Supported G	OT types	Supported d	evices	
Automotive Electronics Plant	GT27	GT25	PLC	Servo	
					CNC

Support FXCPU maintenance

FX list editor function & FX ladder monitor function





The system has been changed at the shop floor. I need to change sequence programs of the MELSEC-F Series programmable controller.

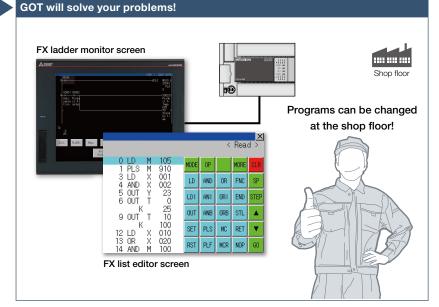
Function features

You can easily edit and monitor sequence programs without preparing any peripheral devices other than the GOT.

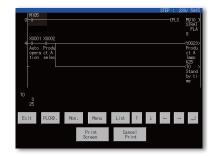
FX list editor

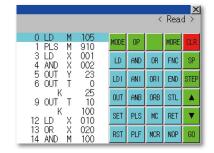
Just by simple key operations you can check, partially correct, change, or add parameters or sequence programs of an FXCPU. * Supported by GT2107-W and GT2104-R among GT21. * Not supported by GT25 wide models.

	Example of	of changin	g sequence	program	commands
	LD	X000	Change	LD	X000
l	OUT	Y020	\rightarrow	OUT	Y030
l	LD	X001		LD	X001
		S			S



Sequence programs of the MELSEC-F Series programmable controllers can be edited in the list (command) format. Minor program changes can be applied even without a personal computer or a peripheral device.





FX ladder monitor

The MELSEC-FX list editor can be opened from the FX ladder monitor screen with a single touch operation. You can edit sequence programs while checking the ladder diagram. You can also display the list screen from the step line displayed in the ladder monitor. * Not supported by GT23, GT21, and GS21.

Specification details and restrictions

<FX list editor>

• Target models FXCPU (FX3U, FX3UC, FX3G, FX3GC, FX3S)

- Supported connection types*1 Ethernet connection*2, direct CPU connection (serial)
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

*2 When the CC-Link IE Field Network Ethernet adapter module is used, the FX list editor cannot be used.

• Functions Writing sequence programs, setting parameters, PLC diagnostics, registering keywords, etc.

Recommended industries

Electronics F & B

<FX ladder monitor>

• Target models FXCPU (FX3U, FX3UC, FX3G, FX3GC, FX3S)

• Supported connection types*1 Ethernet connection, direct CPU connection (serial)

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

- Functions Search operation, display switching, test operation*2*3, hard copy *2 Present values of V and Z cannot be changed.
- *3 Set values of T and C cannot be changed.

Supported devices

GT27	GT25*	GT23*	PLC	
GT21*	GS21*			

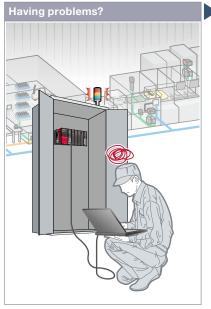
* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported GOT types

Visually check logging data



Log viewer function



How can I check the logging data collected by programmable controllers without opening a cabinet?

Function features

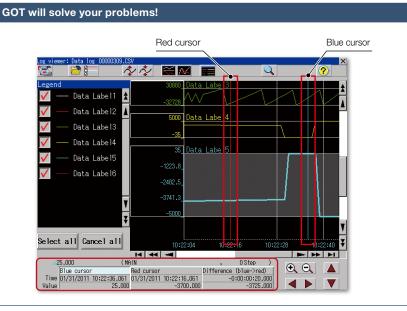
GOT displays the logging data collected by the data logging function of programmable controller CPUs or other modules.

Quick check of data by multiple cursors

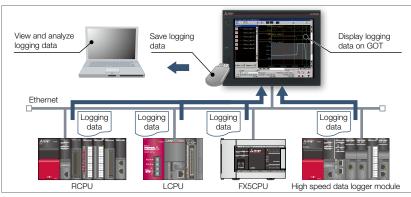
Multiple cursors make it easier to visually check how the data has changed. You can search for the data by specifying the time and index No.

Logging data can be easily changed

FA transparent function (page 83) enables you to view the logging data with GX LogViewer on a personal computer and to change logging settings with CPU Module Logging Configuration Tool.



GOT displays the logging data, which achieves quick troubleshooting without using a personal computer at the shop floor.



Logging data can be obtained without opening a cabinet

The logging data can be copied to a USB memory device attached to a USB interface on the front (or the backside) of the GOT. It reduces the need to remove a memory card from a CPU or high speed data logger module to retrieve the logging data.

* For the necessary option devices, please refer to the "Function list" (page 166).

• Target models Programmable controller CPU (RCPU*1, QCPU*2, LCPU*3, FX5CPU*3), high speed data logger module (MELSEC iQ-R Series), BOX data logger, CNC (C80, C70) 11 Supported by R01CPU, R02CPU, R04CPU, R08CPU, R16CPU, R32CPU, R120CPU, R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, R120ENCPU, R08SFCPU, R16SFCPU, R32SFCPU, R120SFCPU only

- *2 Supported by Q03UDVCPU, Q04UDVCPU, Q06UDVCPU, Q13UDVCPU, Q26UDVCPU only.
- *3 Supported by L02CPU, L02CPU-P, L06CPU, L06CPU-P, L26CPU, L26CPU-P, L26CPU-BT, L26CPU-PBT only.
- *4 Restrictions apply to the CPUs. For the details, please refer to the relevant product manual.
- Supported connection types^{*1} Ethernet connection^{*2}
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- 2 R01CPU, R02CPU, R04CPU, R08CPU, R16CPU, R32CPU, R120CPU, R08SFCPU, R16SFCPU, R32SFCPU, R120SFCPU, QCPU, and LCPU are supported via the built-in Ethernet port; R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, and R120ENCPU are supported via the port CPU P1.

Recommended industries

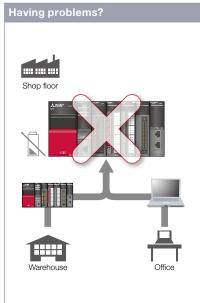
Specification details and restrictions

Supported GOT types

Recommend	ed industries		Supported G	OT types	Supported de	evices	
Automotive	SEMICON, LCD	Electronics	GT27	GT25	PLC		
F & B	Pharma	Plant					CNC

In case of PLC error

Backup/Restoration function



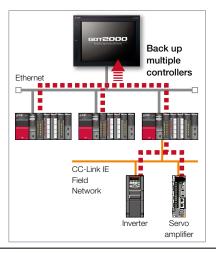
Programmable controller error! The battery is dead! I need to go to the warehouse to get another device and a personal computer to write programs.

Function features

Backup or restore the programs and parameters of programmable controller CPUs or other devices to or from the GOT's SD memory card or USB memory. With a backup of data in the GOT, there's no need to use a personal computer when replacing the industrial devices such as the programmable controller CPU. All replacement and restoration can be completed with just the GOT. * Excluding GT2103-PMBLS

GOT will solve your problems!

There is no need for a personal computer on the production floor. Simply use the GOT to write sequence programs to the controller and you can quickly recover the problem.



Back up multiple controllers/ Automatic backup

Besides making backup of multiple controllers connected on Ethernet, you can specify a trigger device, a day of the week, and time for automatic backup to reduce the time needed to back up each controller separately.

maintenance

work

* Not supported by GT21 and GS21.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

● Target models RCPU*1*2, QCPU (Q mode) (excluding Q12PRHCPU, Q25PRHCPU), LCPU, FX5CPU, FXCPU, Motion CPU (MELSEC iQ-R Series/Q Series (SV13/SV22 only))*2, robot controller (FR Series (CR800-R (R16RTCPU), CR800-D), F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU), CR750-D, CR751-D), SQ Series CRnQ-700 (Q172DRCPU), SD Series CRnD-700)*2, CNC (C80, C70)*2, inverter (FR-A800/A800Plus/F800 Series)*2*3, servo amplifier (MR-J4-□GF)*2*3

*1 Excluding R08SFCPU, R16SFCPU, R32SFCPU, R120SFCPU, R08PSFCPU, R16PSFCPU, R32PSFCPU, R120PSFCPU.

- *2 Not supported by GT21 and GS21.
- *3 Supported only when the GOT and the programmable controller (RCPU, QCPU, LCPU) are connected via Ethernet and the programmable controller (RCPU, QCPU, LCPU) and the inverter/servo amplifier are connected via the CC-Link IE Field Network.
- Supported connection types*1 Ethernet connection*2, direct CPU connection (serial), CC-Link IE Field Network connection*3, serial communication connection, bus connection
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- *2 When the CC-Link IE Field Network Ethernet adapter module is used, the Backup/Restoration function cannot be used.
- *3 The connection type between the programmable controller and the inverter/servo amplifier. • Target data Programs, parameters, device comments, device initial values, file registers, etc.

Recommended industries

Supported GOT types

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

GT21*	GS21	k	
* Excluding some	models or rest	trictions	apply to
some functions	For the details	refer t	o the fund

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

GT23

Check the PLC module status



Having problems?

System launcher function

Can I check the status of the programmable controller system without a personal computer?

Function features

The programmable controller system can easily be checked on GOT without a personal computer at the shop floor.

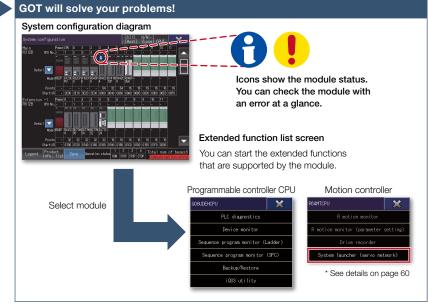
Starting extended function quickly

When you touch a module in the system configuration diagram, the list of extended functions available to the module is shown.

Example of system launcher (servo network)

* See details on page 60





A graphical configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

Checking module product information

The product information such as production number obtained from modules can be checked in a list.





Online module change function

GOT can direct a programmable controller to execute the online module change. (The applicable modules are listed below in this page.)

Specification details and restrictions

• Target models RCPU, QCPU (Q mode), LCPU, Motion CPU (MELSEC iQ-R Series/Q Series), CNC (C80, C70), robot controller (FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DRCPU)), F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU)), SQ Series CRnQ-700 (Q172DRCPU))

• Supported connection types*1 Ethernet connection, direct CPU connection (serial), serial communication connection, CC-Link IE TSN connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

• Extended functions that can be started from the system launcher Device monitor, sequence program monitor (Q.R. ladder/Ladder), sequence program monitor (SFC), network monitor, R motion monitor, Q motion monitor, intelligent module monitor, backup/restoration*1, R motion SFC monitor, Q motion SFC monitor, CNC monitor, 2, CNC monitor, CNC data I/O, CNC machining program edit, IQSS utility, CC-Link IE TSN/CC-Link IE Field Network diagnostics, drive recorder, system launcher (servo network), servo amplifier graph *1 The CPU number setting is not transferred. Only the channel of the connected controller is in its selected state.

Modules applicable to online module change
 QCPU (Q mode) input/output/I/O module, analog input/output module, temperature input/temperature control module, loop control module, pulse input module

Recommended industries

Automotive	SEMICON, LCD	Electronics
F&B	Pharma	Plant

Supported GOT type

ed G	OT types		Supported d	evices
	GT25	GT23	PLC	Ser
		SoftGOT*		Rob

GOT Solutions - Maintenance, Troubleshooting and Diagnostics Features

CNC

* Supported by GT SoftGOT2000 (Multiple channels)

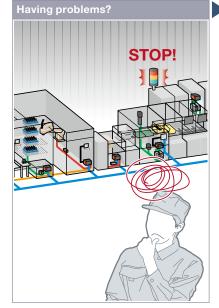
only.

Graphically monitor the network status

Upgraded



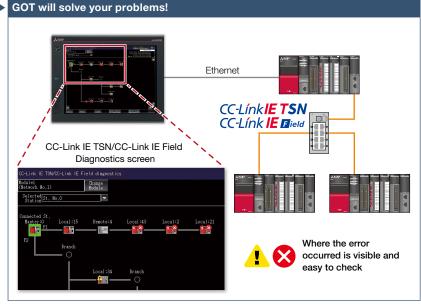




A problem occurred but it might take time to solve it in the large scale system.

Function features

GOT can be used to check the devices in the CC-Link IE TSN NEW or CC-Link IE Field Network and identify the error in the network at a glance. If a problem occurs, you can quickly check where the error occurs and reduce downtime.



Even in a large scale system that has a complex network configuration, the network status can be checked graphically so that line troubles and module errors can be identified quickly.

Checking event history

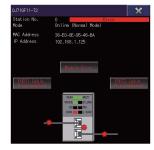
This window displays the history of network events and the event details. The event history can be output to a CSV file and used for trouble analysis in your office. Supported by the CC-Link IE Field Network

diagnostics only. Not available when the connection destination is an RCPU or FX5CPU.



Checking communication status of modules

The communication status can be checked for modules that are selected in the CC-Link IE TSN/CC-Link IE Field Network diagnostics screen. MAC address and IP address can also be checked.



Communication status monitor window

Specification details and restrictions

● Target models RCPU*1*2, QCPU (Q mode) (excluding Q12PRHCPU and Q25PRHCPU)*3, LCPU*3, FX5CPU, C Controller (MELSEC iQ-R Series/Q Series)*3

- *1 The CC-Link IE TSN/CC-Link IE Field Network diagnostics is not supported by R08PSFCPU, R16PSFCPU, R32PSFCPU, and R120PSFCPU.
- *2 The CC-Link IE TSN diagnostics is not supported by R08PCPU, R16PCPU, R32PCPU, and R120PCPU. When a redundant system is configured, the CC-Link IE TSN/CC-Link IE Field Network diagnostics is not supported.
- *3 The CC-Link IE TSN diagnostics is not supported.
- Supported connection types*1 Ethernet connection*2, direct CPU connection (serial)*3, serial communication connection*4, CC-Link IE TSN connection*5
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).
- *2 Connection to the Ethernet interface module of a programmable controller is not supported.
- *3 RCPU and FX5CPU do not support direct CPU connection (serial).
- *4 When using the CC-Link IE Field Network diagnostics, FX5CPU does not support serial communication connection.
- *5 QCPU (Q mode), C Controller (Q Series), and LCPU do not support CC-Link IE TSN connection.
- Supported diagnostics items and station types Available diagnostics items vary depending on the station type (master station, local station, or submaster station). For the details, please refer to the relevant product manual.

Recom	nmende	d indu	stries

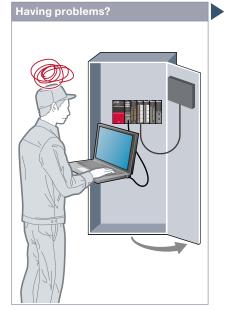
Supported GOT types

Supported devices PLC Automotive SEMICON, LCD Electronics GT27 GT25 Servo F&B Pharma Plant

Easy debugging



FA transparent function



It's bothersome to open the cabinet every time I setup or adjust the device. For the safety reason, I don't want to open the cabinet and change cable connections.

Function features

By connecting a personal computer to the front USB interface on the GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices. Users do not have to bother with opening the electrical cabinet or changing cable connections.

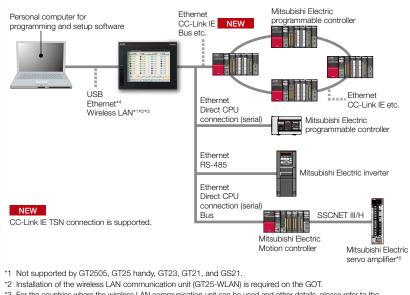
Transferring GOT project data via a programmable controller

Transfer data from a personal computer to the GOT2000 with a programmable controller acting as a gateway. Changing project data during startup or maintenance is now easier than ever. * Not supported by GT21 and GS21.





Without opening the cabinet and by only connecting a personal computer to the front USB interface on the GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices.



- *3 For the countries where the wireless LAN communication unit can be used and other details, please refer to the
- "Product list" (page 198). *4 Not supported by GT23, GT21, and GS21 when the GOT is connected to controllers via Ethernet connection.
- *5 GT21 and GS21 do not support connection to Mitsubishi Electric servo amplifiers.

Specification details and restrictions

• Supported devices, connection types, and compatible software For the details, please refer to the relevant product manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

rter	
C	

. . .

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

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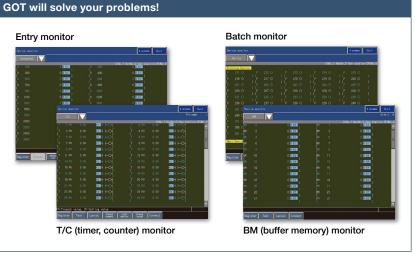
Check status of industrial devices



Device monitor function



How can I check the status of industrial devices without a personal computer?

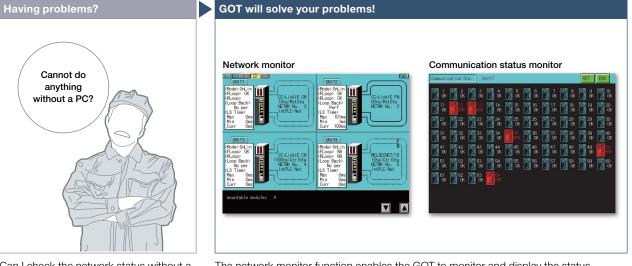


GOT can be used to monitor or change device values of programmable controllers, Motion controllers, robot controllers, or CNCs. The function is useful for starting up devices.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries	Supported GOT types	Supported	devices
Automotive SEMICON, LCD Electronics	GT27 GT25	GT23 PLC	Servo inverter
F & B Pharma Plant	GT21 GS21		Robot CNC

Network monitor function



Can I check the network status without a personal computer?

The network monitor function enables the GOT to monitor and display the status of the CC-Link IE TSN, CC-Link IE Controller Network, CC-Link IE Field Network, MELSECNET/H network, and MELSECNET/10 network.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries								
Automotive	SEMICON, LCD	Electronics						
F & B	Pharma	Plant						

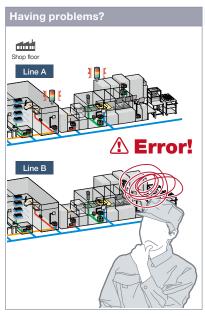
Supported	GOT types

Supported devices

, LCD	Electronics	GT27	GT25	PLC	Servo		
na	Plant					CNC	

Easily identify the cause of alarms

Alarm function



An error occurred! How can I identify the location and quickly recover the problem?

Function features

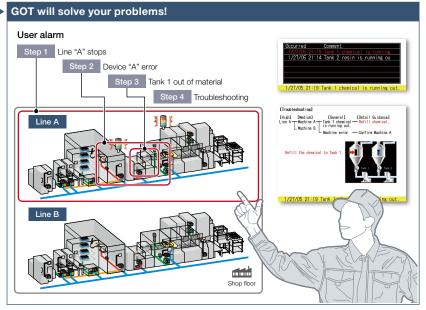
GOT displays communication errors (system alarms) of controllers and usercreated alarms (user alarms).

Easily identify the cause of alarms [System alarm*1]

System alarms are displayed with additional information such as channel No., network No., station No., CPU No., screen No., and object ID. It helps you to identify the controller in which the error occurred and the cause of the alarm. *1 Not supported by GT21 and GS21.

Alarms grouped by system or level [User alarm]

Alarms are displayed in the list grouped by system or level or all alarms are displayed in one list. You can easily check the detailed information of multiple alarms even in a large system, leading to quick troubleshooting.



Alarms are displayed with a station No. and CPU No. in the list grouped by system or level. It helps you to identify the location where the error occurred in a large system, leading to quick troubleshooting.

Backup of alarm logs during power failure [System alarm*1/User alarm]

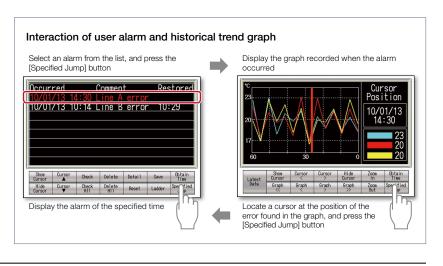
Alarm log data can be saved to a built-in SRAM or other data storage even when the power supply has failed. *1 Not supported by GT21 and GS21.

Interaction with other functions [User alarm]

Suppor maintenance

work

Use of the alarm function combined with the logging and graph helps you to check the status when the alarm occurred and the status of the error found in the graph.



* For the necessary option devices, please refer to the "Function list" (page 166).

Recommended industries

Automotive	SEMICON, LCD	Electroni
F & B	Pharma	Plant

Supported GOT types



refer to the function descriptions above.

Supported devices

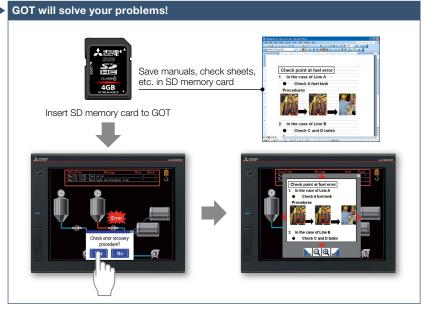


Quick troubleshooting at shop floor





How can I recover from errors?



GOT displays manuals or check sheets with instructions on how to restore the system, which reduces the downtime.

Function features

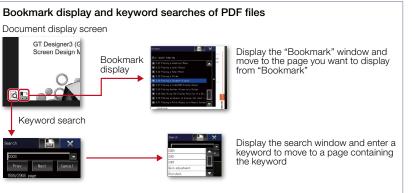
GOT displays various kinds of documents such as manuals. You can switch between pages, scroll, and zoom in/out a page for smooth viewing. Entering a page number easily displays the specified page among multiple pages in the manual.

Indirect specification of document ID or page number

You can switch displayed documents on one screen just by changing the document ID or the page number with objects such as touch switch or numerical input.

Viewing PDF files directly

PDF files can be viewed directly on GOT. With bookmark display and keyword searches, you can instantly check the information you want.



Specifying initial display page with keyword

By specifying the initial display page with a keyword, the specified page automatically appears when using the document display function.

Supporting network drive

The network drive can be used as the save destination for the document files to display. Data can be saved without considering the capacity limit. * For the details, please refer to page 98.

Specification details and restrictions

• Supported file formats PDF file, DocumentConverter output file*1 (doc, xls, ppt, pdf, jpg, bmp)

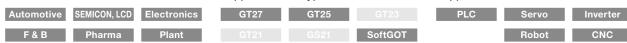
*1 Documents should be converted using DocumentConverter that is included in GT Works3.

Recommended industries

Supported GOT types

Supported devices

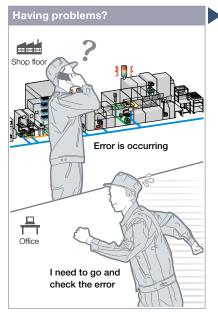
* For the necessary option devices, please refer to the "Function list" (page 166).





Quick troubleshooting from your office





<complex-block>

An error occurred at the shop floor. I need to go and check the error quickly.

Without having manuals, you can use GT Works3 and check the cause and corrective actions of system alarms* and

GOT errors, CPU errors, net work errors,

and corrective actions can be checked.

Without using GX Works3/GX Works2, quickly check errors using GT Works3.

The error cause and corrective actions

checked, thus enabling efficient work of

of GOT script programs can also be

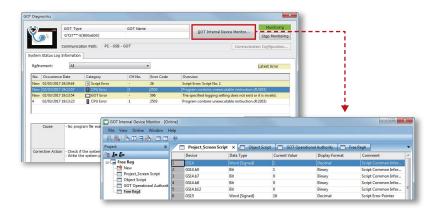
* Not supported by GT21 and GS21. Checking system alarms*

* Not supported by GT21 and GS21. Checking script errors

Function features

script errors.

You do not need to visit the shop floor. The status of GOT and CPU can be monitored using GT Works3 at your office. Check the error cause and corrective actions in detail, and you can solve the problem quickly.



GOT internal device monitor

On GT Works3, you can monitor the GOT internal devices and change the device values as necessary.

Specification details and restrictions

program fix and machine setup.

• Display contents System alarms*1 (GOT errors, CPU errors, network errors), script errors (project script, screen script, object script)

*1 Not supported by GT21 and GS21.

Recommended industries

Automotive	SEMICON, LCD	Electronic
F & B	Pharma	Plant

Supported GOT types



Restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices



Support maintenance

work

Support various international standards



Compatible with environmental standards



I want to use an HMI which is designed to be safely used in hazardous locations.

Function features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [the EU member states, the United Kingdom], KCs [Korea]). Since GOT conforms to water, dust, and oil-proof IP67F standard, it is acceptable for use in areas where water or oil are present. * GT25 rugged model conforms to IP66F.

Approval standards list (as of June 2023)

* For the latest information, please contact your local sales office.



GOT has been approved as the environmentally-resistant equipment, which means that the GOT can be used in various locations.



Approved use in hazardous locations GOT complies with safety standards of the United States, Canada, Europe, and Korea. (White model only)



Water, dust, and oil-proof IP67F for the front surface. GOT is acceptable for use in areas where water or oil are present. * GT25 rugged model conforms to IP66F.

O: Supported ×: Not supported

		Standard model (panel color: black)	White (panel co	model lor: white)	GT25 open frame model	GT25 wide model GT25 rugged model GT21 wide model	
	Approval standards		GT27/GT25 GT23/GT21/GS21		GT27□□-□TWD GT25□□-□TWD	GT25□□F-□TNA GT25□□F-□TND	GT2512-WXT D GT2510-WXT D GT2507-WT D GT2507T-WTBD GT2107-WT D
Mark	Overview	Country/ Region					
CE	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	EU member states	0	0	0	0	0
Ex	ATEX Directive harmonized standards*1	EU member states	×	×	0	×	×
UKCA	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	United Kingdom	0	0	0	0	0
	ATEX Directive harmonized standards*1		×	×	0	×	×
UL	Safety standards	United States	0	0	0	0	0
UL	Class I, Division 2	United States	×	0	0	×	×
cUL	Safety standards	Canada	0	0	0	0	0
COL	Class I, Division 2	Ganada	×	0	0	×	×
KC	EMC standards	Korea	0	0	0	0	0
KCs	Safety standards ^{*1}	Korea	×	×	0	×	×
*1 To a	comply with ATEX directive and KCs regula	tion, there are sor	ne restrictions. Please refer to the spe	ecification details a	and restrictions bel	ow.	

Specification details and restrictions

• Class I, Division 2 This classification means that the equipment has been approved for use in Class I, Division 2 hazardous locations.

• ATEX directive and KCs regulation GOT is acceptable for use in hazardous locations classified by these safety standards. To comply with the ATEX directive and KCs regulation, protective sheet and special fitting in the "Product list" are required separately. (Only protective sheet is required for GT2508-VTWD.) Communication units and option units cannot be used. When using these units, GOT does not comply with the standards. For the details, please refer to the Technical Bulletin "GOT2000 Series in Compliance with the ATEX Directive and KCs Certification Requirements" (No. GOT-A-0101) on the Mitsubishi Electric Factory Automation Global website.

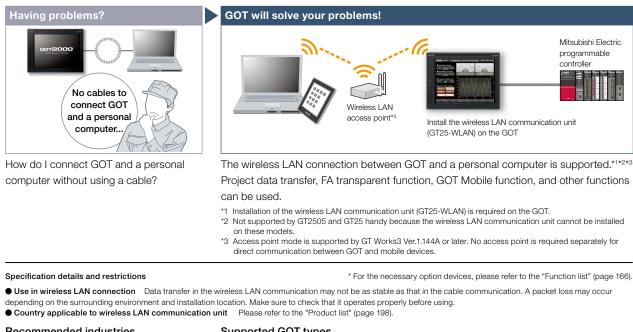
• IP67F To conform to IP67F, close the USB environmental protection cover by pushing in the [PUSH] mark or the USB mark firmly to lock the cover⁺¹. Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

*1 Open frame models conform to IP67F with the environmental protection sheet attached.

Wireless communication between GOT and PC



Wireless LAN communication unit



Recommended industries	Supported G	OT types	
Automotive SEMICON, LCD Electronics	GT27	GT25*	* Excluding some models. For the details, refer to the function descriptions above.
F&B			

Design secure network configuration

Support system design

Having problems? GOT will solve your problems! Information system network 무 ÷ Office Office Shop floo Error! HUB Control system network Shop floor Ethernet D I want to separate the network for security Two Ethernet ports physically separate the information system network in the office from the control system network at the shop floor; therefore the network architecture is more reliable and secure. reason. Installation of the Ethernet communication unit (GT25-J71E71-100) is required on the GOT.

GT25 wide and GT25 rugged models have two Ethernet ports as standard so that the Ethernet communication unit is not required

* Not supported by GT2505 and GT25 handy because the Ethernet communication unit cannot be installed on these models.

Specification details and restrictions

Ethernet communication unit

* For the necessary option devices, please refer to the "Function list" (page 166).

• To use Ethernet communication unit To use the Ethernet communication unit, the BootOS version Z or later is required. Because the unit cannot be used depending on the connection destination, please refer to the GOT2000 Series Connection Manua

Recommended industries			Supported G		
Automotive	SEMICON, LCD	Electronics	GT27	GT25*	
F & B	Pharma	Plant			

GOT Solutions - Hardware Features

4

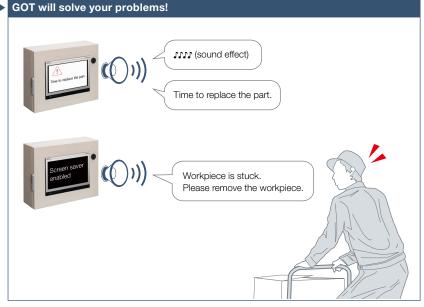
* Excluding some models. For the details, refer to the function descriptions above.

Implement the sound notification system easily



Sound output function





How can I check the equipment status from a remote location?

Function features

The sound can be output* from the audio equipment such as a speaker that is connected to GOT. The sound can be played when the trigger action or time action conditions are satisfied or touch switches are touched.

- * GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit (GT15-SOUT) is not required. The unit is required for other models
- * To output sound, it is required to create sound files

GOT can be used to output sound data. Outputting a notification sound can reliably convey the information to the operators who are working away from the GOT. It is also usable while screen saver is active.

Sound files can be created easily (See page 136)

There are three types of sound files: messages, sound effects, and melodies. Messages can easily be created by using the speech synthesis function* (page 136). Sound effects and melodies are included in GT Works3 so that you can reduce time for system design.

* GT Works Text to Speech License (SW1DND-GTVO-M) is required separately.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

Cancel or mute the sound while it is

After checking the situation, you can stop

or mute the sound while it is being played

back so that you do not need to worry

about annoying other operators.

An error occurred.

being played back

• Unit installation GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit (GT15-SOUT) is not required. The unit is required for other models

• Sound file specifications Sound file format: WAV format, sampling frequency: 8.000 kHz/16.000 kHz, channel number: 1 channel (monaural)

Applicable plug Ø3.5 stereo mini-plug (3-prong)

Recommended industries

Supported GOT types



Easy and neat to install

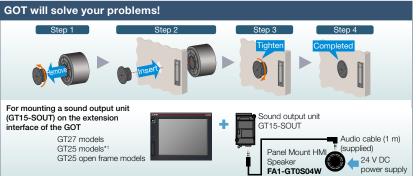


■ Panel Mount HMI Speaker * Manufactured by MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED



NEW

Are there any ways to easily build a sound notification system?



Attaching the speaker from the front and back of the panel completes the installation. Using the speaker with the sound output function of GOT2000 makes it easy to build a sound notification system.

*1 GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit (GT15-SOUT) is not required. Not supported by GT2505 and GT25 handy models because the sound output unit (GT15-SOUT) cannot be installed on these models.

Specification details and restrictions

• Panel Mount HMI Speaker specifications For detailed specifications, please refer to the user's manual of the speaker. For the user's manual, please contact your local sales office of MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED.

Recommended industries		Supported GOT types			
Automotive	SEMICON, LCD	Electronics	GT27	GT25*	
F & B	Pharma	Plant			
			* Excluding some models. For the details, refer to function descriptions above.		

A new sanitation management method



Antibacterial/Antiviral Protective Sheet



the operation panel so it must be kept clean and safe.

protective sheet has excellent transparency and does not reduce the brightness of the GOT screen.

Specification details and restrictions

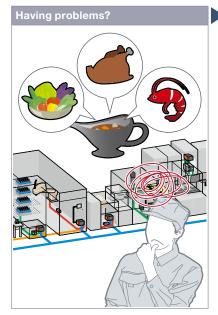
 Antibacterial/Antiviral Protective Sheet specifications The general specifications of the antibacterial/antiviral protective sheet are the same as those of the GOT. For the details of the antibacterial/antiviral protective sheet, please refer to the GOT2000 Series Antibacterial/Antiviral Protective Sheet for GT27/GT25 User's Manual (IB(NA)-0800666).

Recommended industries Supported GOT types Automotive SEMICON, LCD Electronics GT25* Plant F&B Pharma

* Excluding GT25 wide, GT25 open frame, GT25 rugged. and GT25 handy models.

Quick changeover

Recipe function



GOT will solve your problems! 0 egetable curry icken curry bod curry D2000 D2001 D2002 Record 1 Vegetable curry 300 0 0 Start Record 2 Chicken curry 0 300 0 Record 3 Seafood curry 0 150 0

GOT saves recipe information for individual product. You can select a recipe to be

written to the programmable controller, which achieves the quick changeover for the

Changing recipes (changeover) is easy on a user-created screen or on the utility screen.

Curry Production Line [Material Blend Setting

Without creating recipe

change screen, recipes

using a standard recipe

can be changed by

operation window.

300

Change Recipe

Change recipes from user-created screens

Recipe operation window*1 Recipe display (record list)

How can I change the recipe information such as material blend and machine conditions?

production line.

Easy changeover

Change recipes in the

utility screen*1

Ð

.

2

Secured by setting

utility screen.

passwords to activate the

*1 Not supported by GT21 and GS21.

Э,

Function features

GOT saves the recipe information (device values) such as material blend and machine conditions. You can change the recipe on the GOT and write it to a programmable controller to quickly perform the changeover.

Checking record values before recipe change

Without writing records to programmable controllers, record values can be checked and changed. By overwriting a recipe file with the changes, the changed values can be written to devices in programmable controllers. (Recipe special control) * Not supported by GT21 and GS21.

Recipe function can be used without data storage

Data storage or SRAM user area can be specified as the save destination of recipe data.

• Supported device formats Bit, BIN, BCD, Real, String

Supported formats of recipe file conversion CSV file, Unicode® text file, G2P file

Specification details and restrictions

Supported GOT types Recommended industries SEMICON, LCD PLC GT25 Electronics GT23 Inverter Plant SoftGOT CNC GS21*

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices

* For the necessary option devices, please refer to the "Function list" (page 166).



Record selection screen

users. Various functions

and designs are available.

can be created by the



Support system operation

Support recipe setting (record) selection



Recipe display (record list)





How can I change recipes easily on a user-created screen?

Recipe names (record names) are displayed in a list format on GOT. Sort or narrow down the list and easily change recipes on GOT.

Function features

Create the recipe display (record list) easily just by selecting required items in GT Works3. Colors, line styles, and borders can be changed as you need.

Read and write records

Just select a record and touch a switch on GOT and you can easily read or write records.

Change display order of records

Records can be sorted by record number or record name by touching the column header.

Change or delete record names

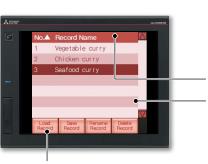
Change record names or delete records by specifying the record name using text input.

Touch and sort records

Scroll the list by slide operation



Colors, line styles, and borders can be changed as you need!



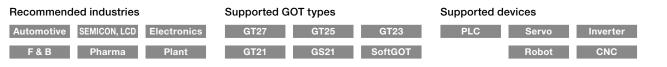
Touch switches for various recipe operations

Specification details and restrictions

• Customizable settings Text color, background color, cursor color, ruled line color, line type, line width, show/hide scrollbar, etc.

• Functions that can be used with recipe display (record list) object Read/write records, delete records, verify records, change/sort/filter record names, export/import recipe data

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: Ver.1.155M or later.



Increase efficiency of maintenance work



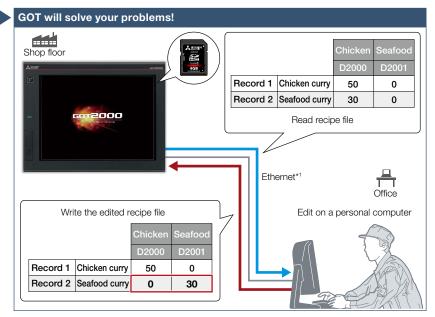
Writing resource data



How can I correct recipe files in GOT without visiting the shop floor?

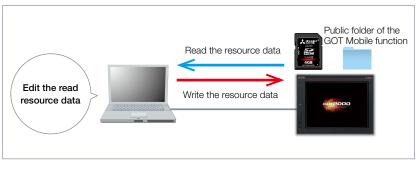
Function features

Resource data (alarm log file, recipe file, logging file, operation log file, image file, and so on) can be written to GOT. There is no need to eject and insert an SD memory card.



Recipe files read from GOT can be edited and written back to an SD memory card in the GOT or other data storage. Without ejecting the SD memory card, you can read, edit, and write recipe files in your office.

*1 USB can also be used between a personal computer and GOT.



Using the public folder of the GOT Mobile function

Resource data can be saved to the public folder of the GOT Mobile function. By using the public folder as the storage destination, resource data can be written to or read from a personal computer where GT Works3 is not installed.

Specification details and restrictions

• Transferable resource data The data that can be transferred differ depending on the GOT model. In addition, the resource data cannot be written depending on the data type. For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

Recommended industries Automotive SEMICON, LCD E



Supported GOT ty	pes
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* Restrictions apply to some functions. For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

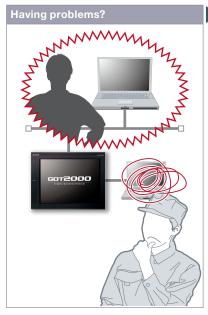
Supported devices



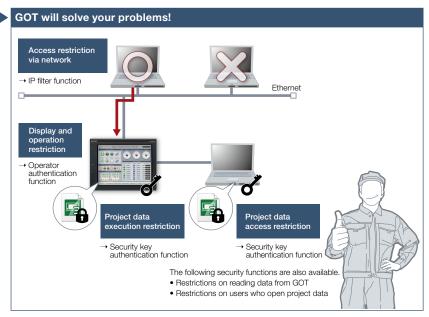
Protect valuable assets



■ Various security functions



I know the importance of security functions to protect valuable assets, but how can I do...?



To protect customers' assets, GOT offers enhanced security functions such as access restriction on project data and access restriction via network.

Function features

Security key authentication function and IP filter function offer enhanced security.

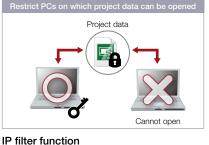
Prevent data alteration and duplication [Security key authentication function]

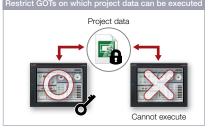
On the GOTs and personal computers without registered security keys, the project data cannot be opened and executed, which protects your techniques (know-how) from information leaks. * Not supported by GT21 and GS21.

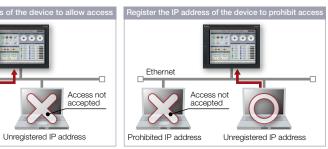
Reduce risk of unauthorized access through network [IP filter function]

Registering the IP address of the device which can access the GOT restricts the access from unauthorized devices.

Security key authentication function







Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

Ethernet

Allowed IP address



* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices



Identify error cause based on history information



Operation log function



An error occurred due to improper operations, but I do not exactly know why the error occurred...

Function features

GOT records the operation information, such as the "what, when, and how" of an operation performed, in chronological order in an SD memory card or USB memory.

Use of the operation log function combined with the operator authentication function (page 97) records additional information of "who" performed the operation.

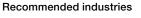
* Supported by GT2107-W only among GT21 models.

Easy management for operation log file*1

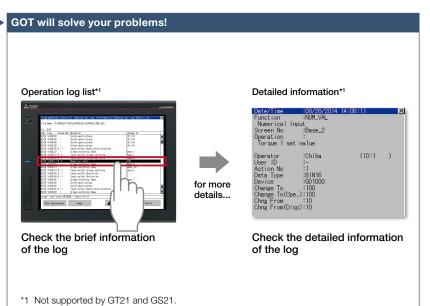
You can copy and delete an operation log file created by the operation log function and change a file name on GOT without using a personal computer.

The operation log file can be converted into a CSV file or Unicode® text file so that the file can be checked on the personal computer.

*1 Supported by GT2107-W only among GT21 models. Changing file name is not supported by GT2107-W and GS21.







GOT records all the operations performed by operators. Checking the recorded operation history helps you to identify and analyze the cause of the error occurred due to improper operations, leading to making improvements, preventing reoccurrence, and enhancing traceability.

Quick check of operation log file

You can select a log from the operation log list and check the detailed information^{*1}. Screen images^{*2} also help you to identify the improper operation.

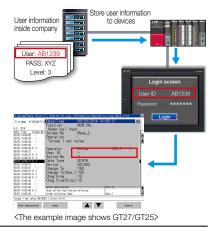
*1 Not supported by GT21 and GS21.
*2 Not supported by GT21, GS21, and

GT SoftGOT2000.



Coordination with user-created management systems

The operation log records not only the operator names that are used in the operator authentication function but also the character strings stored in an external device. It is easy to coordinate your own user management system and the GOT's operation log.



* For the necessary option devices, please refer to the "Function list" (page 166).

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

GS21*

GT23

SoftGOT*

Supported GOT types

GT21*

Security with password management



Operator authentication function



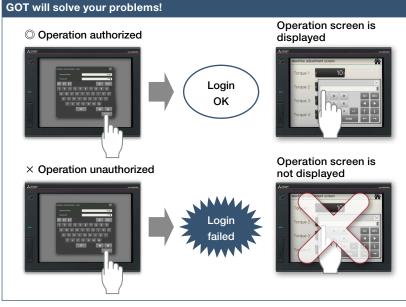
How can I restrict the unauthorized operators?

Function features

Setting the operation authority and the viewing authority achieves "enhanced security" and allows "access management per operator". Use of the operator authentication function combined with the operation log function (page 96) enables you to check the "who, what, when, and how" of an operation performed.

Enhanced password security

By setting password requirements (the minimum number of characters and the character types), you can set more advanced passwords. It is possible to prompt a password change at the initial login or notify the password expiration date in advance (1 day to 30 days). In addition, supported the function to prohibit the setting of passwords that were used in the past. NEW * Not supported by GT21 and GS21.



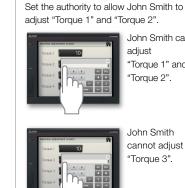
Operator name and password enable the secure login management in a large-scale shop floor, providing the flexibility of setting the operation authority per shop floor or operator. In addition, the login management can be performed by an external authentication device such as RFID.

How to authenticate the operator



Use of method (1) combined with method (2) is acceptable. Secure login management is achieved even when an external authentication device has failed.

Settings for operation authority



John Smith can adiust "Torque 1" and "Torque 2".

> John Smith cannot adjust "Torque 3".



Recommended industries

Automotive	SEMICON, LCD	Electroni
F & B	Pharma	Plant

Supported GOT types

PLC GT27 GT25 GT23 Servo SoftGOT GS21* CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

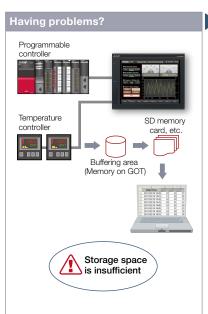
Supported devices



Saving files in network drive



Network drive



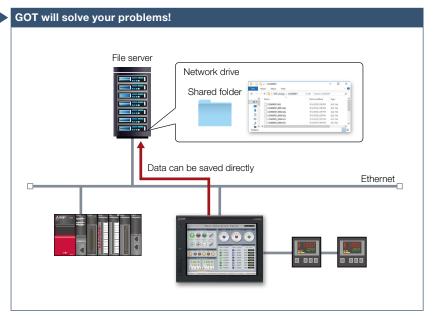
As the size of the logging files and other data saved in the GOT increases, the memory capacity soon becomes insufficient.

Function features

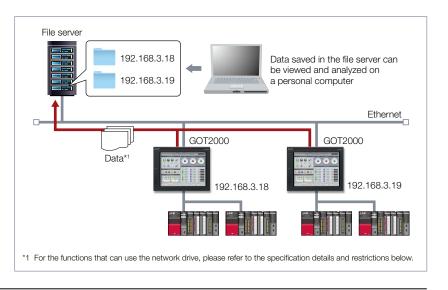
The network drive can be used as the save destination for the GOT files. By setting the shared folder on the file server (personal computer) connected by Ethernet as the network drive, the files can be saved directly to the shared folder from the GOT. Use the external storage to accumulate data without considering the GOT memory size or the SD memory card capacity.

Saving all data to file server

Since files can be saved directly to the file server from multiple GOTs, you can view necessary data just by accessing the server.



Since GOT files can be saved directly to the shared folder on the file server (personal computer) connected by Ethernet, data can be accumulated without considering the GOT memory size or the SD memory card capacity.



Specification details and restrictions

File server File servers must support the file sharing function (SMB or CIFS). For recommended file servers, please refer to the relevant product manual.
 Functions that can use network drive Document display, logging, hard copy, file printing, report, file transfer function (FTP transfer), file transfer function (GOT internal

transfer), file management function

• Using network drive on multiple GOTs When the file save destination setting is common to multiple GOTs, select [Separate destinations for each GOT] in the setting dialog for the function using the network drive. A folder named as the GOT's IP address is created automatically and the files can be prevented from being overwritten.



Printing stored data all at once





How can I make the printer ready and then print data all at once?

Function features

The hard copy data captured while running GOT or the collected report data can be printed.

Supported printer*1*2

- Serial printer
- PictBridge-compatible printer*3
- Ethernet printer*4
- *1 For the supported printer models, please refer to the Technical Bulletin No. GOT-A-0064.
- *2 On GT SoftGOT2000, data is output to a printer that is connected to a personal computer.
- *3 Not supported by GT2505, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21, and GS21.
- *4 Supported by GT2104-R and GT2103-PMBD among GT21.



Files created in the hard copy function or report function can be printed on a printer. When printing reports, the data can be temporarily stored in an SD memory card or other data storage and printed all at once.

Printing reports at an arbitrary timing

The timing to output reports is as follows. Triggers to output data can be set for each report screen.

GT27 model, GT25 model, GT23 model

- When trigger condition is satisfied Stores the collected data into a temporary file, and collectively outputs the data to a report when the output trigger condition is satisfied.
- At the time of data collection (only when using a serial printer) Outputs the collected data to a report simultaneously with data collection.
- Report output destination Reports can be output to a file in a data storage or to a printer. By using the file print function, the files saved in a data storage can be previewed on GOT and then printed.

GT21 model, GS21 model

- At the time of data collection (only when using a serial printer)
- When one page's worth of data is collected (only when using an Ethernet printer)

Output data when one page's worth of data has been collected.

GT SoftGOT2000

- When trigger condition is satisfied^{*1}
- *1 Data cannot be output to a printer directly. Print images (in CSV format) are stored to the virtual A drive of a personal computer once. Output these images in each file to a printer.

* For the necessary option devices, please refer to the "Function list" (page 166).

Recommended industries

Automotive	SEMICON, LCD	Electronic
F & B	Pharma	Plant

Supported GOT types

s	GT27	GT25*	GT23*
	GT21*	GS21*	SoftGOT*
	* Restrictions apply	to some functions	For the details

refer to the function descriptions above.

Supported devices



GOT Solutions - Security & Additional System Features

Support system operation

More information on a single screen



Base screen size expansion

Can I check all necessary information on

one screen without switching screens?

A base screen that is larger than the

resolution of GOT can be created and

can easily be scrolled by using swipe

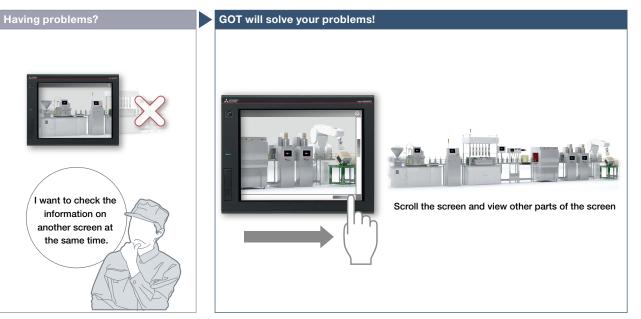
gestures or the scroll bars.

SoftGOT-GOT link function.

displayed. The screen of expanded size

Supported by GT SoftGOT2000 only when using the

Function features



A base screen that is larger than the resolution of GOT can be created and displayed. By displaying the information that used to be separated in multiple base screens, operation can be performed while viewing the whole image.

Example) Displaying an expanded base screen (1600 × 960) on GT27-V (640 × 480)

Expanded base screen (1600 × 960)

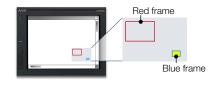
Always display overlap window

Even if the screen is scrolled, the overlap window on the GOT screen is kept displayed in the same position. If there are some objects or information that always need to be displayed on the screen (function keys, etc.), it is possible by using an overlap window.

Operation while viewing the whole image

The navigation window can be displayed on GOT to indicate the current position on the base screen. The window is semitransparent and displayed in small size to help you view the whole image during operation.

The window display can be changed depending on the setting (always display, do not display, or display while swiping/ touching the screen).



Red frame: Indicates the area currently displayed on the GOT.

Blue frame: Indicates the position of the object where the cursor is located. The frame appears when the cursor moves to any object that is hidden from view. The area enclosed in the frame blinks in yellow.

Specification details and restrictions

- Graphics setting GOT Graphic Ver.2 must be selected.
- Restrictions of other functions This function cannot be used with the screen gesture function.

Recommended industries

Automotive	SEMICON, LCD	Electronics	GT27
F & B	Pharma	Plant	

Supported GOT types



Restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices

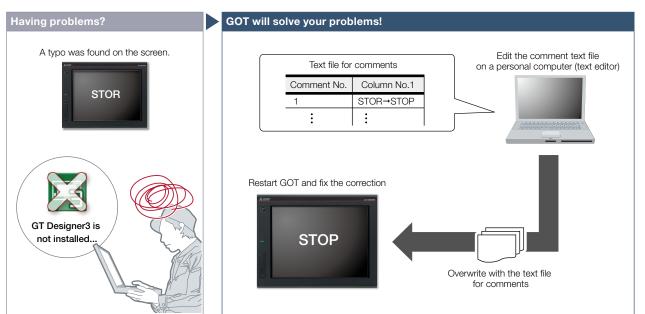


100

Quickly change comments



Changing comments without using GT Designer3



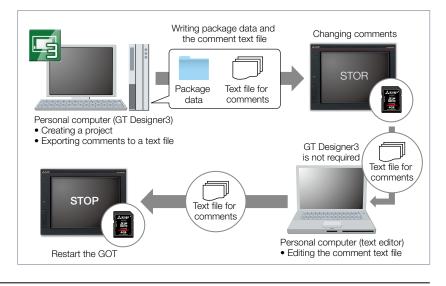
After starting operation, a typo was found on the screen. I need to correct it but there is no personal computer here that has GT Designer3 installed.

Function features

The GOT can display comments by reading a comment text file from the installed data storage. After changing a comment, overwrite the comment text file in the data storage and restart the GOT to display the new comment.

- * To display comments from a text file, configure the relevant settings in the project data. For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.
- * USB memory or SD memory card is required.

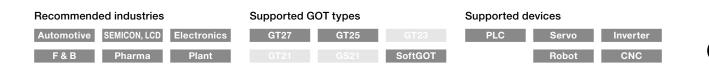
Even if GT Designer3 is not installed on the personal computer, comments can be edited and the changes can be reflected to GOT immediately. It helps to apply minor changes to comments without editing the project data.



Specification details and restrictions

• Influence on the GOT startup time When this function is used, the GOT reads a comment text file at startup, resulting in a longer startup time. To minimize the increase of the startup time, enable this function only for the comment group in which comments may be changed.

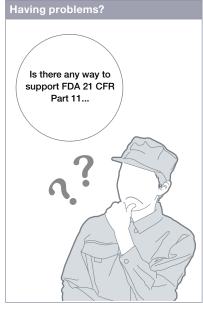
• Font restrictions Windows[®] fonts and HQ fonts are not usable to display the comments of a text file. Even if a Windows[®] font or HQ font is specified in the object setting dialog, the GOT displays the comments in a standard font.



Support FDA 21 CFR Part 11



Regarding FDA 21 CFR Part 11 support



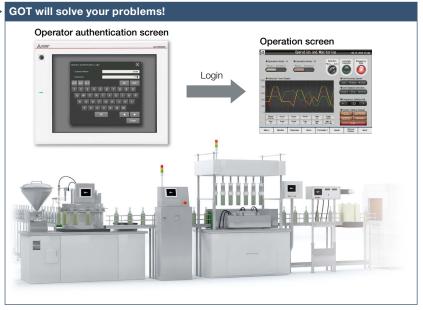
How can I support FDA 21 CFR Part 11 easily?

Function features

GOT can be used to support FDA 21 CFR Part 11, the standards about electronic data recording of the traceability information, which is required in the food and pharmaceutical industries. Sample screens are available for helping you configure systems.

GOT functions related to FDA 21 CFR Part 11

- Managing users who access the GOT Operator authentication and security level setting
- (2) Managing screen data User management, access control
- (3) Completeness of data Network drive, FTP client, FTP server
- (4) Security and viewing of data
 Operation log, alarm, logging, recipe
 (5) Audit trail
- Operation log
- (6) Validation of data and operations Verification (GT Designer3 function)
- (7) System development, operation, and management Security level setting



GOT can be used to make your system meet the requirements of FDA 21 CFR Part 11. * The users must construct an appropriate system for the compliance with the FDA 21 CFR Part 11. For the details, please refer to the Technical Bulletin No. GOT-A-0077.

Access management per operator

The operator authentication function enables management of users who can login to GOT. (For details, see page 97.) * To prevent impersonations, user accounts should be managed thoroughly by the users.

Operator authentication screen



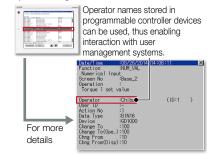
Input an operator name and password for login

Recording audit trails (histories for the follow-up survey later)

Audit trails can be recorded and operated by setting the operation log appropriately.

- (For details, see page 96.)
- Time stamp
- · User name of the logged-in operator
- Description and details of the operation performed by the operator
- (logs before and after the data change)

Operation log list



Specification details and restrictions

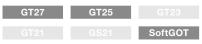
• Range of supporting FDA 21 CFR Part 11 The range that GOT can support the regulation is limited. For the details, please refer to the Technical Bulletin No. GOT-A-0077 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

• How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: Ver.1.152J or later.

Recommended industries

F & B Pharma

Supported GOT types

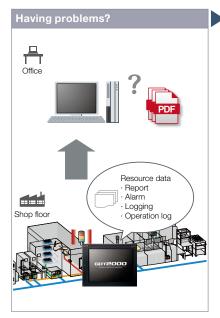


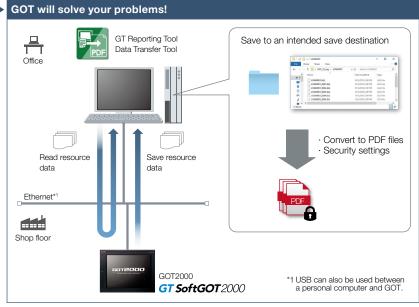
Prevent data alteration with security settings for PDF files



GT Reporting Tool

NEW





Can we check the GOT resource data on a personal computer? We need to consider how to prevent data alteration.

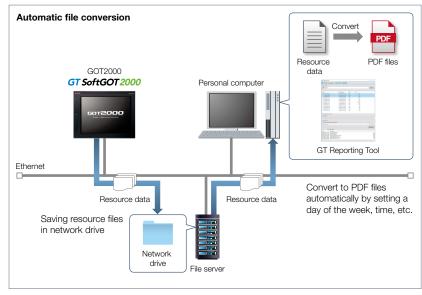
Function features

Some functions of GT Reporting Tool can be executed with a command line. It is useful for converting multiple files at once because the tool has various functions such as setting a logo and setting a PDF password and digital signature.

Automatic file conversion

The resource data can be converted to PDF files automatically. Files can be automatically converted by setting the network drive*² as the destination to save the GOT resource data and then setting the network drive as the file server for GT Reporting Tool to access. *² For the details, please refer to page 98. By using GT Reporting Tool on a personal computer, the resource data created with GOT2000 or GT SoftGOT2000^{*1} can be converted to PDF files. Unauthorized use can be prevented by setting security for PDF files.

*1 Restrictions apply to some functions. For the details, please refer to the specification details and restrictions at the bottom of the page.



Specification details and restrictions

• Resource data that can be converted to PDF files Report file (*.G2R)*1, alarm file (*.G2A)*1, logging file (*.G2L), operation log file (*.G2O)

*1 GT SoftGOT2000 does not support outputting files of this format.

• Operation with a command line and executable functions For the details, please refer to the Help for GT Reporting Tool. When installing GT Reporting Tool, the Help for the tool is also stored in the installation folder. Before starting operation with a command line, it is required to install the latest version of Data Transfer Tool.

Supported GOT types Supported devices **Recommended industries** Automotive PLC SEMICON, LCD Electronics GT27 GT23 Inverter Plant SoftGOT* CNC Pharma GT21 GS21

* Restrictions apply to some functions. For the details, refer to the specification details and restrictions above.

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Easy data collection

Logging & Graph/List



Defective product... I need to quickly identify the cause of errors.

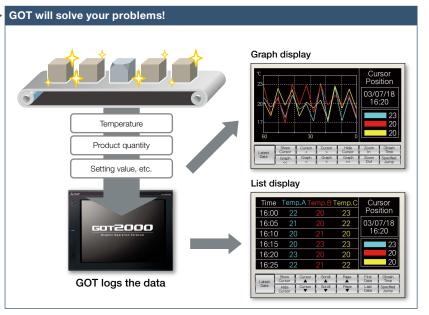
Function features

GOT collects the data from programmable controllers and temperature controllers and displays the collected data in a graph and list. The logging data can be saved in a built-in SRAM* even when the power supply has failed.

* Not supported by GT21, GS21, and GT SoftGOT2000.

Analyze data on personal computer

The logging data can be converted into a CSV file or Unicode® text file and saved to an SD memory card or USB memory so that the data can be displayed on a personal computer.



GOT collects the data from programmable controllers and temperature controllers (logging*) and displays the collected data in a graph and list. You can check the data which was collected when an error occurred to identify and analyze the cause of the error. * Excluding GT2103-PMBLS.

Historical trend graph

The data collected by the logging function is displayed in a graph in chronological order. Scrolling the graph and specifying the time make it easier to check the necessary data.

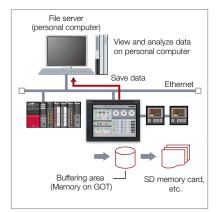
Historical data list

The data collected by the logging function is displayed in a list. Specifying the time in the list displays the historical trend graph of the specified time.

Supporting network drive

The network drive can be used as the save destination for logging files. Data can be saved without considering the capacity limit. * Not supported by GT23, GT21, and GS21.

* For the details, please refer to page 98.



Support system operation

Specification details and restrictions

• Supported device formats Bit, BIN, BCD, Real, String

Recommended industries

Automotive	SEMICON, LCD	Electroni
F & B	Pharma	Plant

Supported GOT types



refer to the function descriptions above.

Supported devices

* For the necessary option devices, please refer to the "Function list" (page 166).

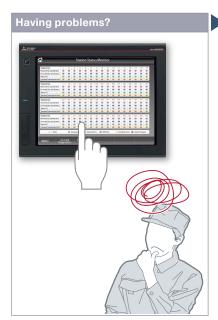


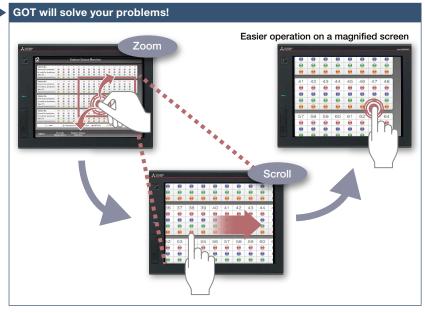
4 GOT Solutions - Security & Additional System Features

Simple touch operations



Gesture function



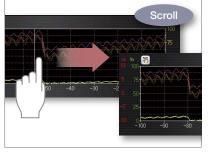


It's hard to touch small parts on the screen!

Zoom in to easily operate small and hard to reach switches. After zooming in, scroll the display to show the area you want to operate.

Function features

In addition to touch operations, gesture operations are now available on the GOT in the same way as on tablet or mobile terminals.





Specify an object to be enlarged, scrolled or flicked.



2-point press operation

To prevent accidental operations, press 2 points simultaneously and enable the touch operation.

Specification details and restrictions

• Objects applicable to the object gesture function Historical data list display, alarm display (user), alarm display (system), simple alarm display, historical trend graph, document display, video/RGB display object*1

*1 Not supported by GT2705.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types



Restrictions apply to some functions. For the details, refer to the function descriptions above.

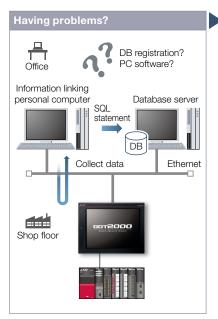
Supported devices



Easy interaction with database



■ MES interface function



How can I analyze the shop floor information and increase production efficiency? Does it take time to construct the system?

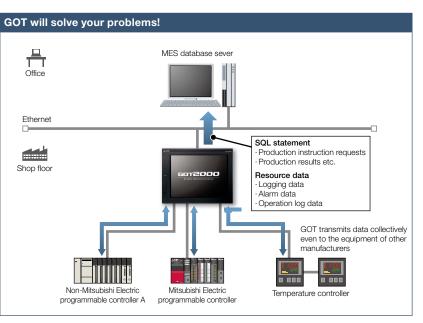
Function features

The GOT uses SQL statements $^{\star 1}$ to transmit data from the connected industrial devices to a database server. $^{\star 2}$

- *1 Communication actions can be selected from SELECT, Multi-SELECT, UPDATE, INSERT, or DELETE.
- *2 A separate license (GT25-MESIFKEY) is required.

Easy communication without programming

Communication with databases is configured in GT Works3 without any programming.



GOT communicates with the MES database server without a personal computer and programs and sends the data such as production instruction requests and production results. Storing the resource data such as alarm history and logging data to a database enhances traceability.

Transferring data of various devices collectively

GOT transmits data collectively to an MES database server by collecting data from various devices of different types and manufacturers. Collecting data in the GOT makes it easy to transmit data to the database.

Unicode® support for tag data type

Unicode® character strings can be used as the data type of collected data (device data). Multiple languages including Chinese are supported and there is no need to worry about character codes.

Resource data send function

The resource data collected in the GOT buffering area or an SD memory card can be sent to a database. The alarm information of GOT can be stored and managed in the database.

e-F@ctory

<MES (Manufacturing Execution System)>

The manufacturing execution system (MES) is a system that controls and manages production processes at a shop floor in order to optimize quality, productivity, delivery date, and cost.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 166).

• Function list •DB interface function (resource data send function / tag function / trigger buffering function / trigger monitoring function / SQL text transmission function / arithmetic processing function / program execution function / DB buffering function) •Diagnosis function •DB server function (ODBC connection function / connection setting function / log output function)

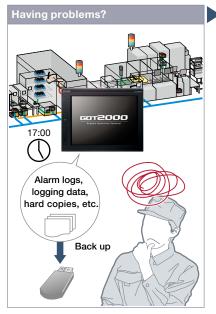
• Usable databases Please refer to the GOT2000 Series MES Interface Function Manual.

Recommended industries	Supported GOT types	Supported of	levices	
Automotive SEMICON, LCD Electronics	GT27 GT25	PLC	Servo	Inverter
F & B Pharma Plant			Robot	CNC

Support management of on-site data



■ File manager function



<complex-block>

Folders and files are shown in a list on a graphical screen so that it is easy to copy them

How can I make backup of alarm and logging data? It's bothersome to back up data separately.

Function features

Check the folders and files that are stored on the GOT's SD memory card or USB memory, and copy or delete them in the list.

Graphical list display

File types can be identified with icons at a glance.

Supporting network drive

Since the GOT files can be directly copied or moved to the network drive, data can

- be backed up easily.
- * Supported by GT27, GT25.

* For the details, please refer to page 98.

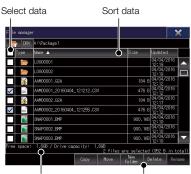
Various file operations

as needed.

Copy, delete, move, rename, or create files and folders. Multiple selection of files and folders is also possible. Files can be operated also in mobile screens using the GOT Mobile function.

Checking available space in drives

Easily check available space in the drives. It is useful when saving cumulative data such as logging and hard copies.



Available space is displayed

Manage files with simple operations

* For the necessary option devices, please refer to the "Function list" (page 166)

Recommended industries

Automotive	SEMICON, LCD	Electronics
F&B	Pharma	

Supported GOT types



Supported devices



Send and retrieve files between GOT and PC

GOT will solve your problems!

Office

Ethernet

Shop floo



File transfer function



How can I check daily production results?

Function features

Files stored on the GOT's SD memory card or USB memory can be transferred easily. Network drive can be used as the transfer destination.

FTP transfer

By using GOT, files stored on the GOT's SD memory card or USB memory can be sent to or received from an FTP server (personal computer). File transfer triggers (sampling, bit rise, etc.) can be used to set file transfer timing.

* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.

GOT internal transfer

Files stored on the SD memory card or USB memory connected to the back side of GOT can be transferred to the USB memory on the front face of the GOT so that data can be obtained easily. * Not supported by GT21 and GS21.

Specification details and restrictions

Recommended industries

• Validated FTP servers and clients Please refer to the Technical Bulletin No. GOT-A-0167 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/)

Supported GOT types



* Excluding some models or restrictions apply to

Supported devices

* For the necessary option devices, please refer to the "Function list" (page 166)

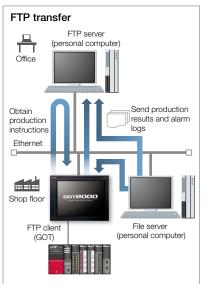


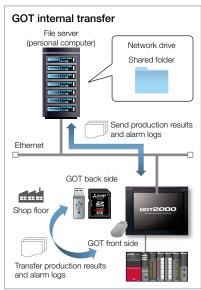
some functions. For the details, refer to the function descriptions above.



Send production results and alarm logs

By using GOT, production results can be stored on the GOT's SD memory card or USB memory and sent to a personal computer or the USB memory on the front face of GOT. The GOT can also receive production instructions from the personal computer.





108

4

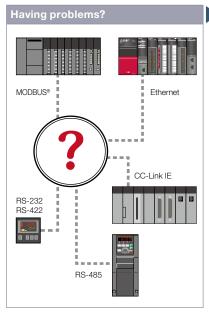
File transfer using a network drive

The GOT data stored in a file server (personal computer) connected by Ethernet can be transferred to an FTP server (personal computer), or the data can be directly transferred between the GOT and the file server (personal computer). * Not supported by GT23, GT21, and GS21. For the details, see page 98.

Various controllers and connection types



Multi-channel function/Device data transfer function



How can I connect various industrial devices in various connection types?

Function features

GOT supports various industrial devices and connection types. With the multi-channel function and the device data transfer function, multiple types of industrial devices of different manufacturers can be monitored. * Excluding GT2103-PMBLS

<Supported connection types>

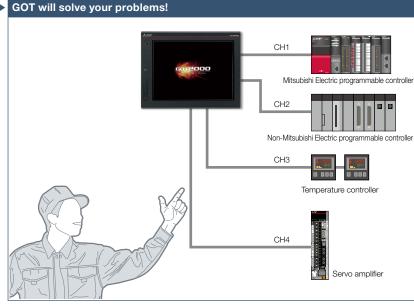
Ethernet, RS-232, RS-422/485, CC-Link IE TSN, CC-Link IE Controller Network, CC-Link IE Field Network, CC-Link, Bus, MELSECNET/ H*, MODBUS®

* Including MELSECNET/10 mode.

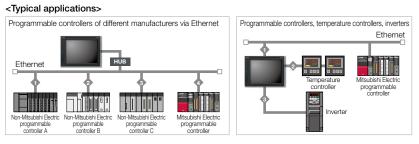
Multi-channel function

Up to four channels* of industrial devices (programmable controller, servo, inverter, temperature controller, etc.) can be monitored with one GOT.

* Up to 2 channels on GT23, GT21, and GS21.

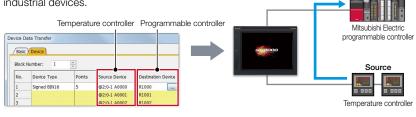


GOT supports various industrial devices and connection types. With the multi-channel function, four channels of industrial devices can be monitored on a single GOT.



Device data transfer function

Using GT Works3, simply set source devices, destination devices, and triggers and you can transfer devices between industrial devices.



Specification details and restrictions

• Various peripherals External devices (operation panels, switches, lamps, etc.), two-dimensional code readers, barcode readers, RFID readers, IC card readers, speakers, video cameras, displays (RGB output), personal computers (RGB input), serial printers, PictBridge compatible printers

• Multi-channel function Supported connection types, channel numbers, and functions vary depending on the GOT type. For the details, please refer to the relevant product manual or the "Connectable model list" (page 170).

Recommended industries



Supported GOT types



* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices

Transfer device data

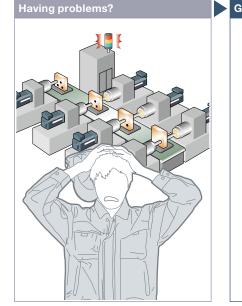


Destination

Support CNC maintenance

Interaction function with CNCs





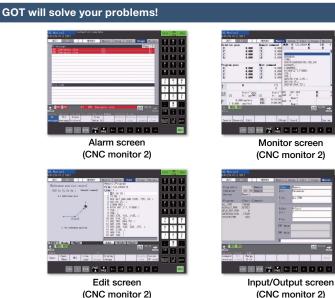
"NC alarm" occurred on a GOT! How can I maintain the system quickly?

Function features

A GOT can be used to display various monitors and make settings of a CNC connected to the GOT.

CNC monitor 2 function (CNC C80)*1

The function enables monitoring and operation of the standard screens (monitor, setup, edit, diagnosis, and maintenance) of the C80 Series CNC connected to the GOT. You can also use this function to input/output data or edit machining program of the CNC C80.



Use a GOT to monitor or check alarms of a CNC. When an NC alarm occurs, there's no need to use a personal computer when modifying programs and you can quickly recover the system.

CNC monitor function (CNC C70)*2*3

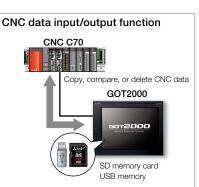
The function enables the alarm diagnosis, position display monitor, tool compensation/parameter setting, or program monitor of a CNC C70 connected to the GOT.

CNC machining program edit function (CNC C70)*2*3

Machining programs and MDI programs of a CNC C70 connected with the GOT can be edited.

CNC data I/O function (CNC C70)*2*3

Machining programs and parameters can be copied, compared, or deleted in a CNC C70 connected with the GOT.



*1 Not supported by GT25 wide and GT25 rugged models

*2 Supported by GOTs with a resolution of SVGA or hiaher.

*3 Not supported by GT25 wide, GT25 rugged, and GT25 handy models.

Specification details and restrictions

• Target models CNC (C80, C70)

- Supported connection types Ethernet connection (DISPLAY I/F connection only)*1, bus connection*2 *1 The CNC monitor, the CNC machining program edit function, and the CNC data I/O function cannot be used with CNC C70 when CC-Link IE Field Network Ethernet adapter module is used.
- *2 Supported by CNC C70 only.
- Target data

CNC monitor 2 function The target data is the same as that of the CNC monitor function, the CNC machining program edit function, and the CNC data I/O function. CNC monitor function Alarm diagnosis, position display, tool compensation parameter setting, program, APLC release screen

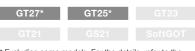
CNC machining program edit function Machining program, MDI program

CNC data I/O function Machining program, parameter, tool offset data, workpiece offset data, common variable, maintenance data, cycle monitor data

Recommended industries

Automotive Electronics

Supported GOT types



Supported devices

* For the necessary option devices, please refer to the "Function list" (page 166).

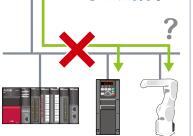
* Excluding some models. For the details, refer to the function descriptions above.

4

Support visualization of a large scale system NEW

■ GENESIS64[™] interaction function (Gateway function)





Can we collect and manage the information of industrial devices by accessing them from SCADA without using an OPC server?

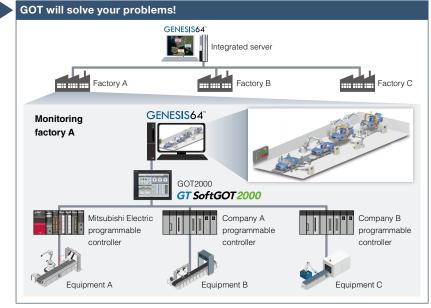
Function features

The GENESIS64™ SCADA software can collect the data of connected devices via gateway devices of GOT2000 or GT SoftGOT2000 that acts as a gateway server.

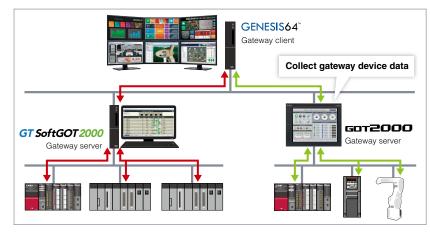
After establishing correlation between GENESIS64[™] tags^{*1} and GOT2000 gateway devices, the users can make settings with familiar tags on SCADA without worrying about actual device names.

*1 The "tags" are data used when GENESIS64™ accesses external data.

For the details, please refer to the ICONICS Automation Software Suite catalog (L(NA)08785ENG).



The GENESIS64™ SCADA software can collect the information of devices on each equipment via GOT2000 or GT SoftGOT2000 that is installed on the shop floor. This is useful not only for monitoring the operation status of equipment in each factory, but also for advanced preventive maintenance and predictive maintenance.



Easy connection without OPC server

OPC servers are not required when GENESIS64™ reads and writes data of devices connected to GOT2000 using GOT gateway devices.

Specification details and restrictions

- Applicable SCADA software GENESIS64[™] Version10.97.1 or later
- Applicable GT Designer3 Version1.265B or later
- Number of GOT2000 (servers) simultaneously accessible to a personal computer (GENESIS64™) 16 maximum
- Number of automatically detectable units and modules 255 maximum (the total of GOT2000 and GT SoftGOT2000*1 modules)
- *1 For GT SoftGOT2000, the number of running modules is the maximum number of automatically detectable modules

Electronics

● Devices that can be monitored and accessible range from GENESIS64™ For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

Recommended industries Automotive SEMICON, LCD

Support	ted (GOT	types	

es		Supported devic	
25		PLC	Sei
	SoftGOT		Rol

Inverter
CNC

Servo

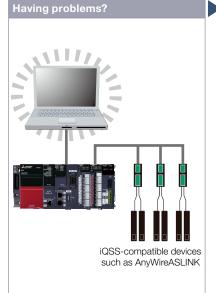
Robot

Support iQSS-compatible devices

GOT will solve your problems!



iQSS utility function



GOT2000 Check if AnyWireASLINK sensors are disconnected and quickly take corrective actions as needed. Connect an SD memory card or USB memory that stores iQSS-compatible devices the iQSS-compatible device such as AnyWireASLINK information to the GOT

How can I check the status of AnyWireASLINK without a personal computer?

Function features

Just enable the iQSS utility function to automatically generate monitoring screens. There is no need to create monitoring screens for every sensor and thus you can reduce time for startup, operation, and maintenance of the sensor system.

> A MICHIE Solution iO Sc iQss

Specification details and restrictions

For the details, please refer to the iQ Sensor Solution catalog

(L(NA)16029ENG).

• Target models RCPU: AnyWireASLINK Ver.1.0 and AnyWireASLINK Ver.1.1*1*2 are supported

QCPU (Q mode), LCPU: AnyWireASLINK Ver.1.0 is supported

*1 Devices whose first two digits of the manufacturing information are 03 or later are supported.

*2 When using word data, use devices which support AnyWireASLINK Ver.1.1 for both master and slave modules.

• Supported connection types*1 Ethernet connection*2, direct CPU connection (serial)*3, serial communication connection, CC-Link IE Controller Network connection*5, CC-Link IE Field Network connection^{*6}, CC-Link connection, bus connection^{*5}, MELSECNET connection^{*5}, MELSECNET/10 connection^{*5+6}

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 170).

*2 L02SCPU or L02SCPU-P cannot be used.

*3 When connecting the GOT with the LCPU, use L6ADP-R2.

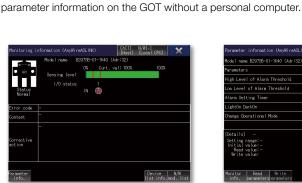
- *4 Cannot be used to connect a Q00JCPU, Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU or Q25HCPU.
- *5 RCPU and LCPU are not supported.

*6 Use a QCPU and network module (QJ71LP21, QJ71LP21-25, QJ71LP21S-25, QJ71LP21G, and QJ71BR11) with the function version B or later.

Recommended industries

Supported GOT types

Recommended industries	Supported GOT types	Supported devi	ices
Automotive SEMICON, LCD Electronics	GT27 GT25	GT23 PLC	
F & B Pharma Plant			



Check the status of iQSS-compatible devices such as AnyWireASLINK and the

Monitoring information screen

The status, sensing level, I/O status of the device being monitored can be checked in this screen.

Parameter information (AnyHireASLINK)	Ch[1] N/W[-] [Host] [Local C	NI 🗙 🛛
Model name B2973B-01-1K40 (Adr:32)		
Parameters	Value	Unit 🔺
High Level of Alarm Threshold	20	
Low Level of Alarn Threshold	10	
Alarm Setting Timer	255	100ms
LightOn DarkOn	DarkOn	
Change Operational Mode	Detection of Sens	
		•
(Details) – Setting range:– Initial value:– Read value:– Write value:		
Monitor Read Write info. parametersparameters	Devi list i	≻e N/H nfo.mod.list

Parameter information screen

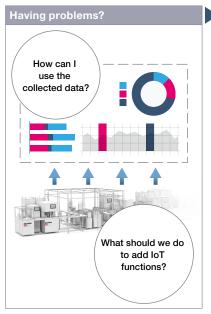
The list of parameters and the details of the device being monitored can be displayed. Parameters can be changed in this screen.

* For the necessary option devices, please refer to the "Function list" (page 166).

Easy IoT application to the equipment



e-F@ctory Starter Package (free of charge sample project)



To add IoT functions to the shop floor, what do we have to do in the first place?

Function features

The e-F@ctory starter package includes sample projects for the MELSEC iQ-R/ iQ-F Series programmable controller and the GOT2000 Series human-machine interface.

Programs for visualization and simple analysis are provided in sample project format, realizing IoT infrastructure on the shop floor just with basic settings such as device assignment and parameter registration.



For the details, please refer to the e-F@ctory Starter Package leaflet (E001ENG).

Specification details and restrictions

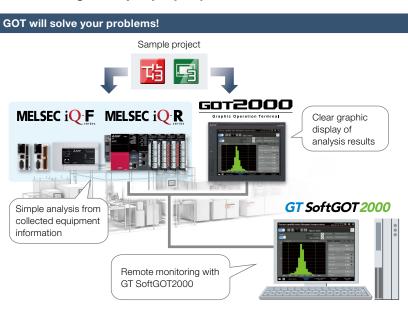
• Target models MELSEC iQ-R Series, MELSEC iQ-F Series*1, GOT2000 Series, GT SoftGOT2000 *1 Some functions are not supported.

Lineup of project data MELSEC iQ-R/iQ-F Series project data, GOT2000 Series SVGA (800 × 600) project data (By changing the GOT type, data can be used for other models.)
 Lineup of provided functions MELSEC iQ-R Series (Equipment operation monitoring solution (dashboard, production counting, process capability index (histogram),
 operational status monitor, cylinder & cycle time measurement monitor, error corrective actions and inspections, sensor value monitor, equipment trouble Pareto chart, control
 chart (Xbar-R/S), loss time analysis, specific energy consumption management, output as spreadsheet), MT method simple diagnosis solution (MT method, vibration analysis,
 time series data collection), vibration analysis, waveform guard band monitoring, equipment inspection, change point monitoring log)

MELSEC iQ-F Series (overall equipment effectiveness monitor, cylinder and cycle time measurement monitor, MT method, equipment trouble Pareto chart)

Recommende	ed industries		Supported G	OT types		Supported de	evices	
Automotive	SEMICON, LCD	Electronics	GT27	GT25		PLC		
F & B	Pharma	Plant			SoftGOT			

Vibration analysis screen



By adding the integrated management programmable controller and GOT to the existing equipment, "visualization", "simple analysis", and other functions can be easily developed by using the simple CPU communication function.

Low-cost installation

MT method screer

.

Installation cost can be reduced because it is not necessary to create sequence program and screen data from scratch. A large lineup of functions that focus on management, maintenance, and improvement of equipment are available. Destboord





* Screen images are subject to change without notice.



startup/

adjustment

maintenance

work



Support screen design



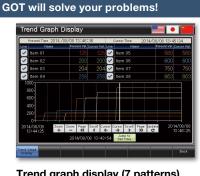


Now we have HMIs but it's hard to design screens from scratch

Equipn	nent 01	Equipm	ient 02	Equipr	nent 03
Item 01	20 sec	Item 05	0 sec	Item 09	100 sec
Item 02	30 sec	Item 06	0 sec	Item 10	150 sec
Item 03	10 sec	ltern 07	0 sec	Item 11	120 sec
Item 04	30 sec	Item 08	0 sec	Item 12	70 sec
Equipn	nent 04	Equipre	ient 05	Equipr	nent 06
ltern 13	0 sec	Item 17	4 sec	Item 21	0 sec
Item 14	0 sec	Item 18	15 sec	Item 22	0 sec
Item 15	0 sec	Item 19	7 sec	Item 23	0 sec
Item 16	0 sec	Item 20	2 sec	Item 24	0 sec

Parameter setting (3 patterns)

Displays set items and enables input of set values for various parameters



Trend graph display (7 patterns)

Displays the data collected with the logging function in a trend graph

Standard screens are grouped into 17 categories by purpose. Frequently used screens are available as sample screens.

Manual Operatio	on		
ltem 01	ON OFF	ltem 07	ON OFF
ltern 02	ON OFF	Item 08	ON OFF
ltem 03	ON OFF	Item 09	ON OFF
ltem 04	ON OFF	Item 10	ON OFF
Item 05	ON OFF	Item 11	ON OFF
ltem 06	ON OFF	Item 12	ON OFF
Manual			-
Operation			Back

Manual operation (6 patterns)

Executes ON/OFF operations of signals (bit devices)



Counter display (4 patterns)

Monitors or resets counters for the data such as production volume and tool use



Alarm history (2 patterns)

Displays alarms in the history format and enables checking of the details and recovery methods of a selected alarm

Function samples

These are sample screens that you can feel GOT2000 recommended functions.



Recipe

Provides samples to use the recipe function easily



Screen bookmark

Provides the list to bookmark screens. You can register frequently-used screens and switch between the screens in the list.

	10/01/	2013 12:34 🔟
: Remote net Ver.1 n	rode	
: 1 Station		
Data link control by	the master station	
: 5 msec		
: 5 msec		
: 5 msec		
Not specified Not specified No error	Fuse blown status	No error
No error	Switch change status	No change
I No error	Switch change status	: No change
: O	Switch change status	: No change Data Link Restart
	T Station Data Ink control by Data Ink control by S msec S msec S msec S msec Not specified Not specified	: 5 msec : 5 msec : Al stations normal : Net secilied : Net secilied

CC-Link network monitor

Displays the CC-Link network status (host station, other stations, errors, etc.)

Specification details and restrictions

• Other standard screen samples I/O signal display, numerical data display, start-up condition display, operation ready signal display, interlock display, interlock setting, machine selection setting, alarm frequency display, alarm status display, current alarm display, home position return, cycle time display

- Other function samples GOT Mobile function (Andon, remote controller), alarm function (level, sort), alarm function (hierarchy). device monitor function. Kana-Kanii conversion function, AnyWireASLINK network monitor function, how to comply with FDA 21 CFR Part 11, PDF search external control function, etc.
- How to obtain sample screens Sample screens are included in GT Works3. For the details, please contact your local sales office.
- Supported language English, Japanese, Chinese (Simplified)



Support connection with industrial devices



Connection samples

The lineup of samples for non-Mitsubishi industrial devices has been expanded! These are sample screens for monitoring current values of connected devices, setting parameters, etc.



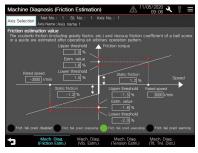
Mitsubishi Electric programmable controller

· MELSEC iQ-R Series MELSEC iQ-F Series

- MELSEC-L Series
- · MELSEC-Q Series
- · MELSEC-F Series

FX5U-32MCPU L06CPU Q06UDEHCPU FX3U-16MCPU

R08CPU



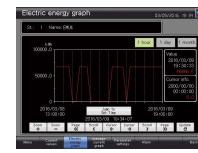
Mitsubishi Electric servo amplifier For the target models, please refer to the GOT2000

Drive Control (Servo) Interactive Solutions catalog (L(NA)08335ENG).



Mitsubishi Electric inverter GOT Drive

For the target models, please refer to the "GOT Drive Control (Inverter) Interactive Solutions" (page 69).

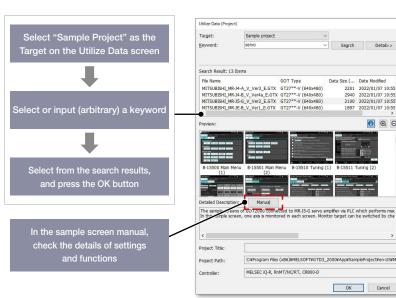


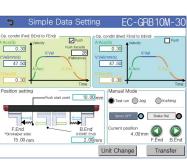
Mitsubishi Electric other devices Motion controller Simple Motion module

- Industrial robot GOT Drive Energy measuring unit EcoMonitorLight/ Electric multi-measuring instrument etc.

Using sample screens

In the GT Works3 menu, select [Screen] → [Utilize Data].





Non-Mitsubishi Electric industrial

- devices Robot controller
- · Electric actuator
- · Stepping motor
- · Network signal tower
- · Temperature controller
- etc

4 GOT Solutions - Interactive Features with Other Industrial Devices

Θ



module · MELSEC iQ-R Series RD81RC96-CA NEW



iQSS related samples

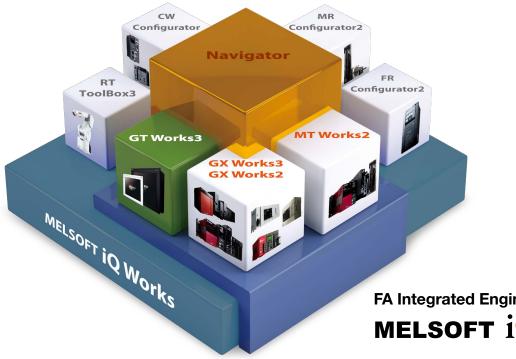
These are sample screens to connect to iQSS-compatible devices.



iQSS backup/restoration (PLC↔sensor) function

FA Integrated Engineering Software **MELSOFT** iQ Works

MELSOFT iQ Works is an integrated software suite consisting of GX Works3, MT Works2, GT Works3, RT ToolBox3*1 and FR Configurator2, which are programming software for each respective product. Integration is further enhanced with MELSOFT Navigator as the central system configuration incorporating an easy-to-use, graphical user interface with additional project-sharing features such as system labels and parameters. The advantages of this powerful integrated software suite are that system design is made much easier with a substantial reduction in repetitious tasks, cutting down on errors while helping to reduce the overall TCO.



System management software

MELSOFT Navigator

System level graphic-based configuration tool that simplifies the system design by providing a visual representation of the system. System management features such as system-wide parameterization, labels and block reading of project data are also included.

Programmable controller engineering software

MELSOFT GX Works3

GX Works3 is the latest generation of programming and maintenance software offered by Mitsubishi Electric specifically designed for the MELSEC iQ-R Series control system. It includes many new features such as graphic-based system configuration, integrated motion control setup, multiple language support, providing an intuitive engineering environment solution.

HMI/GOT screen design software MELSOFT GT Works3

This integrated software is used to create professional screen designs for GOTs. Developed with the concepts of simplicity, sleekness, and userfriendliness in mind, this is a powerful tool that pushes boundaries and delivers endless design possibilities.

FA Integrated Engineering Software MELSOFT i **Works**

Motion controller engineering software

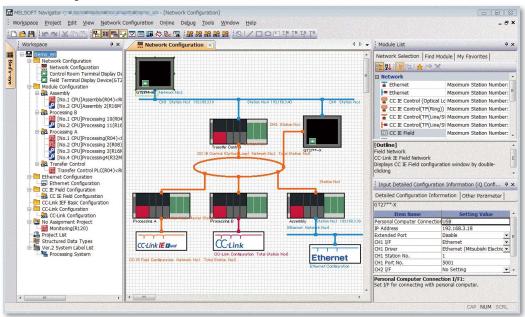
MELSOFT MT Works2

This motion control design and maintenance software includes intuitive graphic-based programming together with a digital oscilloscope simulator.

- Robot engineering software MELSOFT RT TOOIBOX3*1
- Inverter setup software MELSOFT FR Configurator2
- C Controller setting and monitoring tool MELSOFT CW Configurator
- Servo setup software MELSOFT MR Configurator2

*1 RT ToolBox3 mini (simplified version) will be installed if iQ Works product ID is used. When RT ToolBox3 (with simulation function) is required, please purchase RT ToolBox3.

MELSOFT Navigator



MELSOFT Navigator enables interaction with iQ Works

Share labels among projects

Labels can be shared among GX Works3, MT Works2, and GT Works3 so that if the device assignment is changed in one project, the changes are automatically applied to other projects.

No need to set parameters for each tool*2

The information set in the system configuration diagram can be applied in a batch to each program in GX Works3, GX Works2, MT Works2, and GT Works3. There is no more need to start up each software and check the consistency.

*2 Detailed parameters must be set with each tool.



Programmable Controller Engineering Software MELSOFT GX Works3

a second		4
	1111111111	_
a second	1111111111	100
		-/-

Motion Controller Engineering Software MELSOFT MT Works2



Robot Engineering Software MELSOFT RT ToolBox3*1



C Controller module/MELSECWinCPU

MELSOFT CW Configurator

Programmable Controller

Programmable Controller Engineering Software MELSOFT GX Works2



HMI/GOT Screen Design Software MELSOFT GT Works3



Inverter Setup Software MELSOFT FR Configurator2

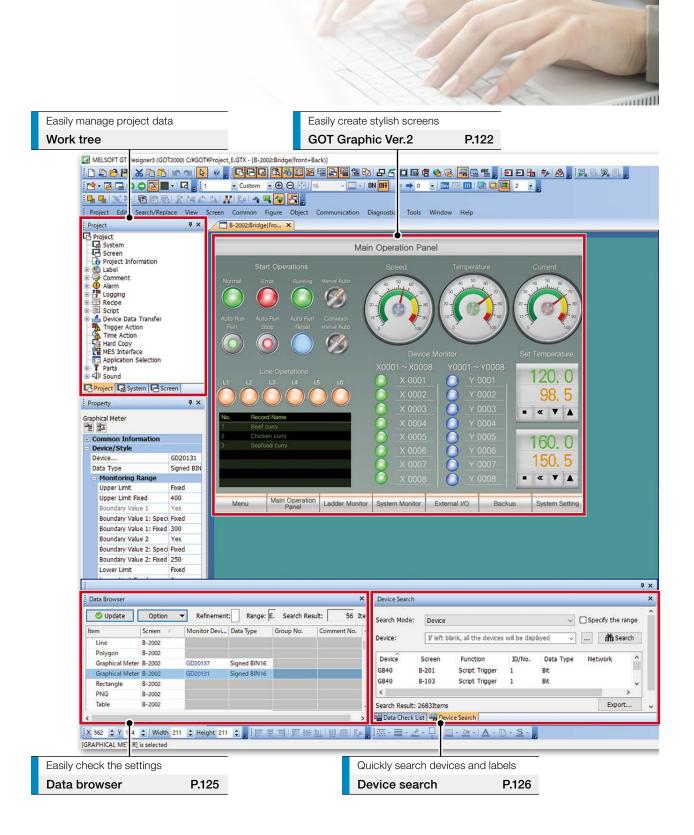


Servo Setup Software MELSOFT MR Configurator2

*1 RT ToolBox3 mini (simplified version) will be installed if iQ Works product ID is used. When RT ToolBox3 (with simulation function) is required, please purchase RT ToolBox3.

HMI/GOT Screen Design Software MELSOFT GT Works3

Easily create professional screens!



Reduce screen creation time

Utilize data (Screens)	120
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Automatic scaling when changing GOT type	121
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■ Support screen creation

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Data browser ······ Upgraded 125
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Consecutive copy Upgraded 127
Reflecting [Comment Group No.],
[Comment No.], [Part No.] to objects 127
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e-Manual ······130

Easily create stylish screens

Align	131
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Simulator	132

Data verification 132 Data verification 132 Data check list 133 Image: Support startup work 133 Data transfer (batch write to multiple GOTs) 133 Image: Support maintenance 133 GOT offline monitor 134 Resource file viewer 135

Speech synthesis function 136

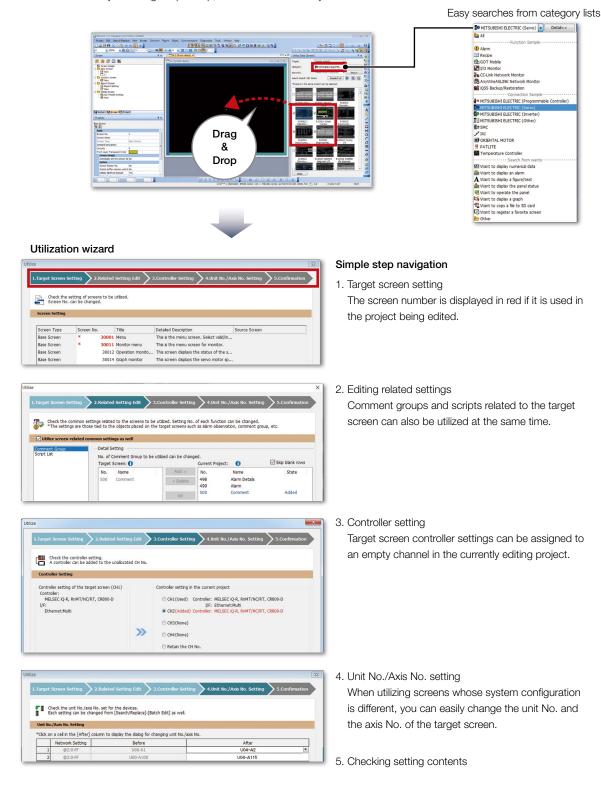
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GT27**-X (1024x768) € 536 Colors CH 1	: MELSEC IQ-R, RnMT/NC/	RT, CR800-D 🛅 562,134 X:1227,Y:34	87 N	M		
Quickly display screen thum	bnails	Search by key	words an	d effect	tively use data	
Screen image list	P.125	Utilize data			P.120	

119

Reduce screen creation time

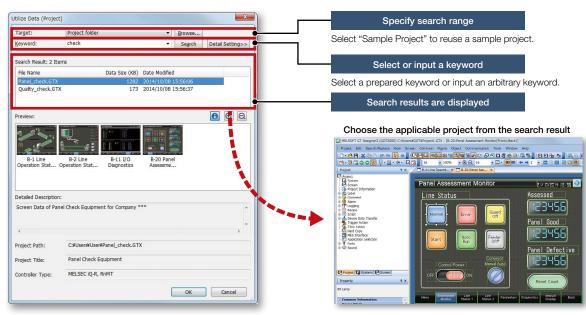
Utilize data (Screens)

Individual screens can be utilized from past projects and sample projects. Select screens to utilize, then drag and drop to launch the utilization wizard. Just by following simple step, screen data can easily be utilized.



Utilize data (Projects)

When creating a new project, search through the existing projects to find any existing projects that may be reused. Keyword search helps narrow down the search.

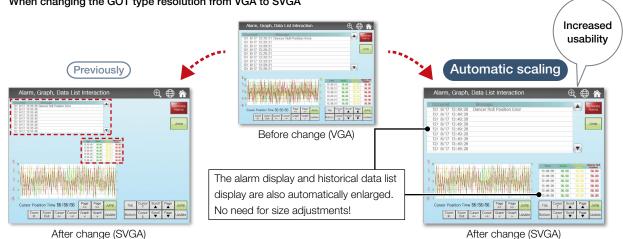


Procedure: [Project] → [Utilize Data]

Automatic scaling when changing GOT type

More objects are automatically scaled when changing to GOT types with different resolutions. It is now easier than ever to utilize screens of different resolutions, making the work process more efficient.

Target objects: Alarm display, simple alarm display, system alarm display, historical data list display, data list display, recipe display (record list)



When changing the GOT type resolution from VGA to SVGA

Procedure: [Common] \rightarrow [GOT Type Setting] \rightarrow [Perform Automatic Scaling on the positions/sizes of figures and objects] \rightarrow [Option]

Script parts

Make scripts into objects and use them as script parts. The following operations are available, improving operability.

• Copying and pasting to another screen, grouping, registering to the library, adding to a template

Support screen creation

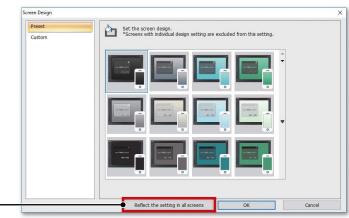
GOT Graphic Ver.2

Screen design

Screen design can be selected from various designs by theme. Simply select your favorite design from presets to change all screen backgrounds at once. You can keep screen design consistent across the entire project and reduce steps in the process. In addition, the screen design can be customized to create favorite design.

Pre-installed screen designs

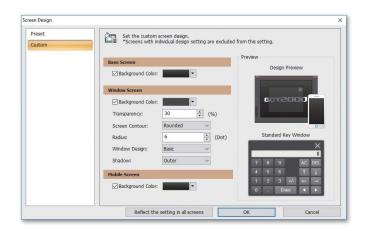
Select one of the screen designs pre-installed in GT Designer3. You can easily set a screen design without paying attention to the setting items. Each screen can be customized individually.



Change the design for all screens at once

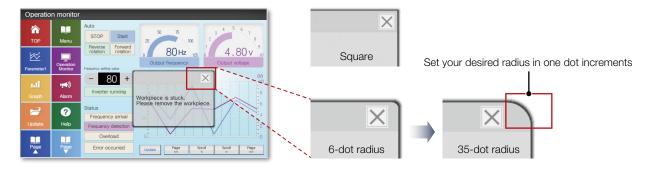
Customized screen designs

Customize a screen design. You can customize the background color, design of window screens, and other settings of a screen design selected from the preinstalled screen designs.



Contour shapes of window screens

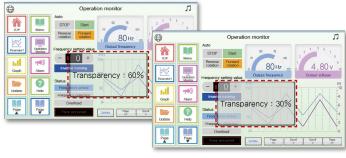
Both square and rounded contours are available for window screens. The radius can be adjusted for rounded contours.

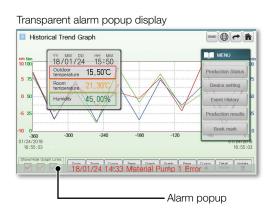


Transparent window screen and alarm popup display

The background color transparency can be changed in window screens. You can check and control the window screen while viewing the overall image of the base screen. Alarm popups turn transparent as well so that they do not block the base screen underneath.

Configure the transparency of the window screen





Stylish system key window

Multiple system key windows are available for your screen design. Select a preset that fits your screen design to use a matching numeric keypad. The key window is made transparent when moved so that you can check the screen underneath. * Not supported by GT21 and GS21.

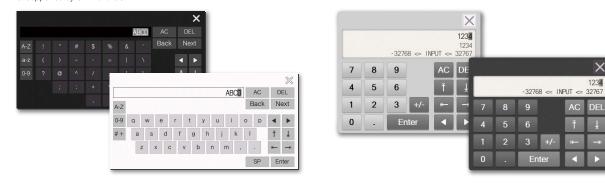
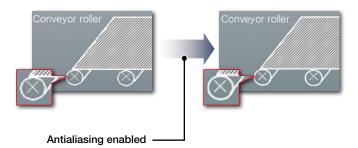


Figure antialiasing

Antialiasing is available for figure contours in addition to on-screen text. Overall screen display is smoother for stress-free, stylish screen design.



Support screen creation

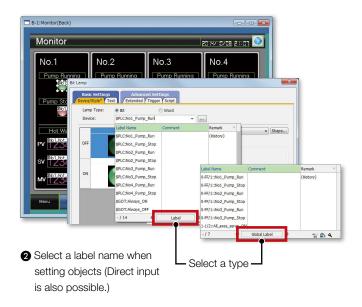
Label/Global label

Label

Instead of using devices, use label names to create easy-to-understand project data efficiently. Not only Mitsubishi Electric programmable controller devices, but also non-Mitsubishi Electric controller devices and GOT internal devices can be assigned to labels. Labels can be used in GT Works3. In addition, global labels can be imported from GX Works3, GX Works2, and MT Developer2.

d Object: Display	 Find Charac 	ters:		Find Next	
- 🔏 🖪 🖻 🎽) #P			
Label Name	Data Type	Assign (Devic	e) Com	ment ^	
1 No1_Pump_Run	Bft	MO			
2 No1_Pump_Stop	Bit	M1		8	
3 No2_Pump_Run	Bit	M10			
4 No2_Pump_Stop	Bit	M11			
5 No. 2 TC Label Gro	up				
61					
Find Object: Displa	v •	Find Characters:		Find M	lext
880		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
- Andrew Market					
			ssign (Device)	Comment	
1 No1_Hot_Wat	er_PV Signed	BIN16 @2:1-1	401001		
2 No1_Hot_Wat					
3 No1_Hot_Wat		BIN16 @2:1-1	N16 @2:1-1 401003		
4 No2_Cold_Wa	ter_PV Signed I	BIN16 @2:1-2	401001		
	OT Label Group				
61					
Find Object	t: Display	▼ Find Cha	racters:		Find Next
R	6 B B 🗡	9 6 6	19		
	Label Name	Data Type	Assign (Device)	Com	ment
	se_Screen_Switching	Signed BIN16	GD100		
	indow_Screen_Switchin		GD101		
	ways_ON	Bit	GB40		
	ways_OFF	Bit	GB41		
	T_ID_Number	Signed BIN16	GS3		
6 Co	unter 1 Sec	Signed BIN16	G57		

• Set label names and assign devices



Procedure: [Common] → [Label] → [New Label Group]

Global label*

Global labels are used for connection to RCPUs, Motion CPUs (MELSEC iQ-R Series), or Motion modules only. By using global labels, you can create the project data without paying attention to the actual devices. To use global labels of GX Works3, MT Developer2, or Motion Control Setting Function, import them to GT Designer3.

Global labels for RCPUs (GX Works3) are useful since they can be imported from the project data at a time.

Global labels for Motion CPUs (MT Developer2) are imported from CSV files.

- * Not supported by GT21 and GS21.
- * Double-precision real numbers are supported.

obal Label List			×		Notifyir	ng char	nge d
Global label data o	of GX Works3/MT Developer2 can b abels with "access from external de	e displayed on the dialog of "Select Global Label" ar	id the input assist.		Check i	f there i	is a c
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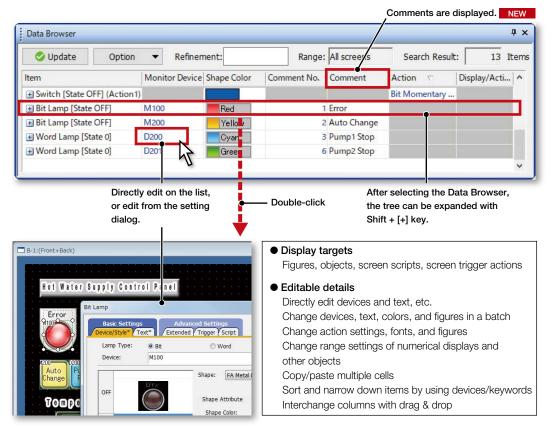
dialog, [Global Label Reference] dialog

iobal Label Set	ting: 0-FF RC	PU-2		~	
efinement:	Enter a string for re	finement.			
earch Target:	Al ~ Keyword:		Enter a search keyword.		Find Next
40.	Label Name	Da	ta Type	Comment	
1	Stopfig1	Bit		Stop Flag-1	
	Stopflg2	Bit		Stop Flag-2	
	Count1	W	rd [Unsigned]/Bit String [16-bit]	Count 1	
	Temperature1	FD	DAT [Single Precision]	Temperature1	
	Startfig1	Bit		Startfig1	
	Startflg2	Bit		Startflg2	
	1		*The files of the import source have l	been updated. OK	Cancel

Procedure: [Project] \rightarrow [Import Other Data] \rightarrow [Global Label]



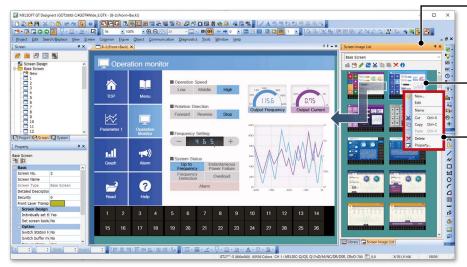
The data browser shows a list of objects used in the project. The settings can be edited directly on the browser or by opening the setting dialog. You can easily identify any duplicate data and no longer have to open multiple screens.



Procedure: [Search/Replace] → [Data Browser] Procedure: [View] → [Docking Window] → [Data Browser] Shortcut key: Ctrl + E

Screen image list (thumbnail display)

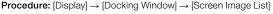
Created screens can be displayed and checked in the screen image list window as thumbnails. By viewing the screen image list, it is easy to look for the screen you need. It is convenient to copy or delete screens on the window.



- Greatly improved speed to display screen images
- * Settings are required to speed up the display. For the details, please refer to the relevant product manual.

Double-click a screen on the window and display it on the screen editor

Copy or delete the screen on the window



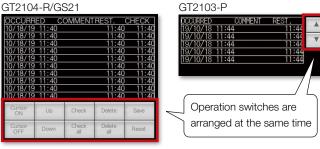
Support screen creation

Alarm display (user/system)

The alarm display lists the collected user alarms or system alarms^{*1}. When placing an alarm display, operation switches are arranged at the same time. There is no need to select operation switches for the alarm display separately, thus reducing time for screen design.

*1 GT21 and GS21 do not support the system alarm function.

GT27/GT25/GT23/GT2107-W/

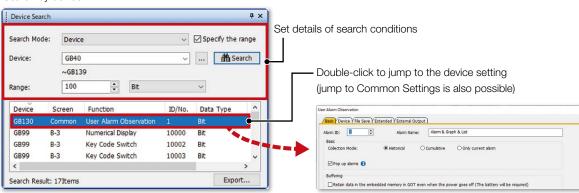


Procedure: [Object] \rightarrow [Alarm Display] \rightarrow [Alarm Display (User)/Alarm Display (System)]

Device search

Search the current project for devices, labels, or tags. By quickly checking the device use status, you can identify which functions use the found devices, and change the related settings. Keyword search narrows down the search results.

Search by device



Quickly display the search results.

Search without worrying about device type and data length.

Search all devices when the [Device] field is empty

Search Mo	de: Devic	e	~	Specify the ra	nge
Device:	If lef	t blank, all the devices will b	e disp 🗸	🏦 Sear	rch
Device	Screen	Function	ID/No.	Data Type	^
D600	Common	Screen Switching/Wind		Unsigned BIN16	5
D500	Common	Screen Switching/Wind	1	Unsigned BIN16	5
D232	B-4	Numerical Display	10084	Signed BIN16	
D232	B-4	Numerical Display	10089	Signed BIN16	
D230	B-4	Graphical Meter	10083	Signed BIN16	
D230	B-4	Graphical Meter	10088	Signed BIN16	
500	D 4	Numerical Disabu	10017	Cianad DTN116	, `

Procedure: [Search/Replace] \rightarrow [Device Search] Shortcut key: Ctrl + F

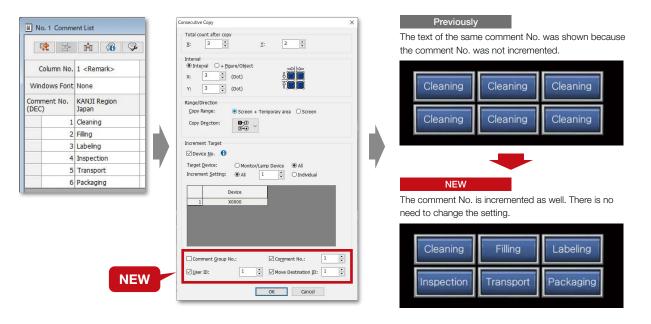
Search by keyword is also available

Search Mode: Keyw Keyword: GB		Keywo	ord (Device)			~		
		GB		(forward) 🗸		H Search		
Device	Scre	en	Function		ID/No.	Data	Туре	^
GB40	B-3		Script Trigger		1	Bit		10
GB40	B-5		Bit Lamp		10139	Bit		
GB40	B-5		Bit Lamp		10140	Bit		
GB40	B-5		Bit Lamp		10259	Bit		
GB40	B-5		Bit Lamp		10260	Bit		
GB40	B-5		Bit Lamp		10267	Bit		
CD40	n c		Corint Triagar		1	n #		>

Upgraded Consecutive copy

Upgraded features of consecutive copy can reduce screen creation time. Consecutive copy can be used to copy and paste selected figures and objects (switches, lamps, etc.) at a time based on the settings.

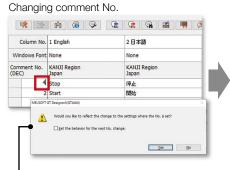
[Comment Group No.], [Comment No.], [User ID], and [Move Destination ID] have now been added to the increment target to allow for more efficient screen design work.



■ Reflecting [Comment Group No.], [Comment No.], [Part No.] to objects

When changing comment group No., comment No., or part No., the number being set to objects are changed accordingly.

In the [Option] dialog, select whether or not to reflect the change to the object settings when changing the numbers.



Display the confirmation message whether to reflect the change.

(Settings are made in the [Option] dialog)



Reflect the change to the object where the comment is used.

Support screen creation

Upgraded

Improved Ethernet settings

Visibility of the system tree for Ethernet settings has been improved. In addition, by showing IP addresses used in the project in a list, it is easy to notice setting errors such as address duplication.

Improved visibility by listing controllers and IP addresses in the Controller Setting section of the system tree. MELSOFT GT Designer3 (GOT2000) C:¥GOT¥Project.GTX X R 8 9 8 ,
 • ① ○ ○ 16
 • □ • ○ 0N 0H
 ← ⇒ 0
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 Figure Object Communication Diagnostics Tools Window Help
 😬 • 🖬 🖬 🗢 🖉 📲 • 📲 📲 3.5.5.1111 图图图 2 M がらい全国知識 Project Edit Search/Replace View Screen Comm System GOT Setting GT Setting GT Prope Setting GT Setting GT Setting GT Setting GT Setting GT Setting GT Phaddess Setting GT Set Lō Q 🖷 Controller Setting 🗙 4 Þ 🗸 🗙 A Window Preview × ₽**₽** 123 ON Switch ON/OFF Display F7 T NOCO H State No , RnMT/NC/RT, CR hernet Controller S Set the controller to be connected to the GOT. MITSUBISHI ELECTRIC A P<u>r</u>oject Tree Docking Windo Alt+0 Controller Setting MELSEC IQ-R, RnMT/NC/RT, CR800-D Screen Tree Editor lab Status Bar System Tree Ethernet:Multi Display Items 19 Device Search Claritone
 Device Searce Data Browser Grid Ctrl+E t Controller Setting controllers to be connected to the Ethernet-Inked GOT. Two-point Press Inactive Area Propertysheet Alt+1 ц Layer IP Address List Library List Library List Library List (Template Guideline (auxiliary line EG 100 Q Zoom Alt+F9 Library List (Template) Switch Display Lang Alt+2 Buffer Memory U Controller type Lis Data View Screen Image List Parts Image List Port No. Communication Net No. Station Unit Type IP Addre: 192.168.3 Bar Code
 Bar Code
 PC Remote Operation
 PC Remote Operation
 VIC Server
 Video/RGB Input
 Mutmedia
 External Vio RCPU Utilize Data (Screen) Ctrl+Shift+F
 Data Check List
 Output External I/O / Operation Panel HDMI/RGB Output GOT Network Interaction GOT Network Interaction GOT Mobile Setting I/F Communication Setting Verify Result IP Address List Reset Sort Search Result: Option

Refinement: IP Address Controller/Setting Name Port No Communication Net No. Station GOT IP Address Setting - Standard Port 192.168.3.40 Project System C Screen 🖼 Data Check List 🛛 🔂 Data Bro Multimedia - File Server 192,168,3,40 21 Network Drive 192,168,3,101 Printer 192.168.3.100 RCPU (Used in CH1) 192.168.3.39 5006 UDI

ąх

5 Items



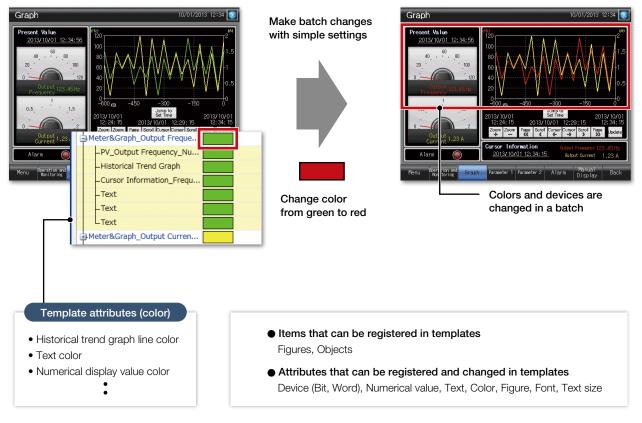
[IP Address List] docking window

Duplicated IP addresses are notified by changing the color of the cells to yellow. In addition to the connected controllers, IP addresses in [Printer], [Network Drive], and other settings can be checked in a list.

Yellow cell: Overlapping IP address

Customize each template to the desired look-and-feel, ranging from color options to device selection. Attributes such as devices and colors can be set for each template.

You can easily change devices and colors by associating each object with the template's attribute.



·Selecting from library

Procedure: [View] \rightarrow [Docking Window] \rightarrow [Library List (Template)] **Shortcut key:** Alt + F9

·Creating template

Procedure: Select object \rightarrow Right-click \rightarrow [Template Registration] \rightarrow [Register to Template]

Support screen creation

Concept movie



e-Manual

e-Manual is the Mitsubishi Electric FA Electrical Document Manual with a dedicated viewer (e-Manual Viewer). Useful functions are included such as keyword search of multiple manuals, saving your favorites, saving memos, and others.

Install e-Manual Viewer



2 Always download the latest manuals. Easy to update with just one click!



3 Increase your screen design efficiently

Quickly confirm with F1 key

Press the F1 key in GT Works3 and jump to e-Manual for the dialog being edited! Quickly check setting methods and other information!

GT Works3



Easy to view, easy to use!

Cros

Easy to view contents, easy to use, useful functions help you access manuals efficiently. Quickly search for the information you need.







ss Manual Search	Bookmark	Note

Search required information from multiple manuals by keyword. You can get to the information you need without opening manuals one by one.

Procedure: [Help] \rightarrow [GT Designer3 Help]

Shortcut key: F1

Specification details and restrictions

<GOT manuals available in e-Manual>

 Manual name GOT2000 Series User's Manual (Hardware), GOT2000 Series User's Manual (Utility), GOT2000 Series User's Manual (Monitor), GT Designer3 (GOT2000) Screen Design Manual, and various other manuals

<e-Manual Viewer Windows® version>

- Supported OS Microsoft[®] Windows[®] 10, Microsoft[®] Windows[®] 8.1, Microsoft[®] Windows[®] 8, Microsoft[®] Windows[®] 7
- How to obtain e-Manual e-Manual is included in GT Works3 Ver.1.155M or later. For the details, please contact your local sales office.

Bookmark frequently used manuals and pages and you can check the information quickly.

Take a memo, such as know-how, and add it to the manual and you can customize manuals as you like.

* For the details, please contact your local sales office.

<e-Manual Viewer tablet version>

- Supported OS Android[™] 4.3/4.4/5.0, iOS 8.1 or later
- How to obtain e-Manual e-Manual is available for download from application distribution sites. (Search by "Mitsubishi Electric e-manual")





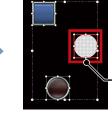
Tablet version (iOS) Japanese site

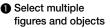
Easily create stylish screens

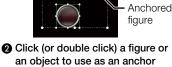
Align

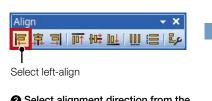
Selected figures and objects are aligned to the anchored figure or object according to the specified alignment type.



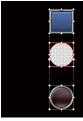








3 Select alignment direction from the Align toolbar

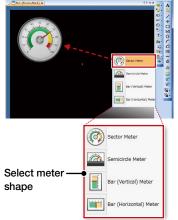


Alignment completed!

Graphical meter

Just select a meter from the preset list and you can create stylish, clear meters. The position and angle of scales can be adjusted by mouse operation and the shape and design can be changed easily. Warning color display indicates the machine status clearly.

Select from the toolbar



Select from the preset list (O) (O) (O) (O) (O) 63 63 63 63 63 <u>a</u>a <u>a</u>a (A) Â 🔊 🐼 🌄 2 The list includes various choices Easy to adjust settings by mouse operation



position Adjust warning color display position

Adjust scale

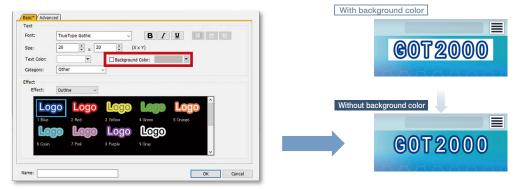
Adjust start/end angle of the meter



Procedure: [Object] → [Graphical Meter]

Logo text

The background of the logo text can be made transparent.



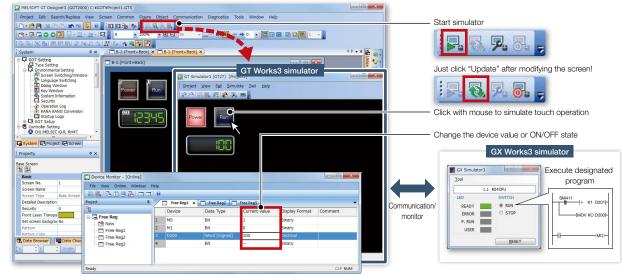
Uncheck the [Background Color] checkbox to make the background of the text transparent.

Support debugging

Simulator

Since the operation of the project data can be confirmed on the personal computer, the program can be efficiently debugged while making changes on the screen. Even if hardware is not available, the operations can be confirmed with a personal computer and sequence programs. The screen images can be printed and saved, and easily used when creating specifications and operation manuals.

* GX Works3, GX Works2, GX Simulator, or MT Works2 is required separately. (It varies depending on the CPU to simulate.)

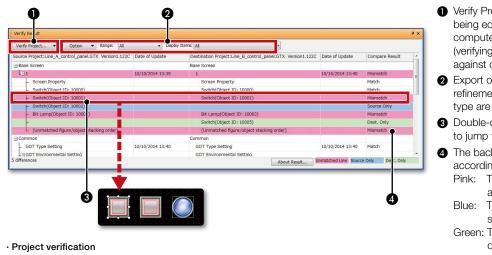


Procedure: [Tools] \rightarrow [Simulator] \rightarrow [Activate] Shortcut key: Ctrl + F10

Data verification

Verify the project data and check the results for each screen/object.

From the Verify Result window, you can jump to the target object or can narrow down results by items such as the screen type. This function enables you to check differences and modify the data quickly even if the project data includes many screens.



- Verify Project (verifying the project being edited against one in a personal computer) and GOT Verification (verifying the project being edited against one in the GOT) are available.
- Export of verified results and refinement by items such as screen type are possible.
- 3 Double-click on an error or warning line to jump to the corresponding object.
- The background color of a row varies according to the type of a difference.
 Pink: The item exists in both projects and the data are not matched
 Blue: The item exists only in the source project
 Green: The item exists only in the destination project

- **Procedure:** [Project] \rightarrow [Verify Data]
- Verification with GOT

 $\label{eq:procedure: [Communication] \rightarrow [Verify \ GOT] \ ^* \ In \ the \ Verify \ Result \ dialog, \ select \ [Output to \ Verify \ Result \ (window)] \ to \ display \ the \ above \ Verify \ Result \ window).$

Data check list

The touch switch quantity and overlapping state, object quantity and illegal devices are checked and the results are displayed as a list. Double-click on an error or warning line to jump to the corresponding object. Quickly identify errors and warning objects.

Message	No. Тур		Screen	Contents	Object I
GT_W00	02 War	ning I	B-1	Regions of key inputs are overlapping. Coordinates: (152,122) , (152,122)	20007
GT_W00	11 War	ning	B-1	"??" is set for some device.	10004
				Data Check is completed.	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		_			
				Double-click!	

 $\begin{array}{l} \textbf{Procedure:} \ [\text{Tools}] \rightarrow [\text{Data Check}] \rightarrow [\text{Check}] \\ \textbf{Procedure:} \ [\text{View}] \rightarrow [\text{Docking Window}] \rightarrow [\text{Data Check List}] \end{array}$

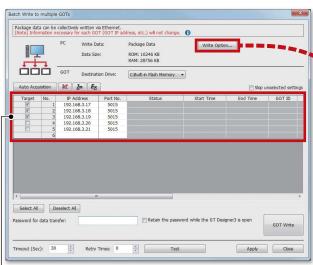
Support startup work

■ Data transfer (batch write to multiple GOTs)

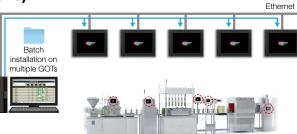
Single package data (project data, communication drivers, etc.) can be installed on multiple GOTs connected via Ethernet at once. (Maximum 256 GOTs)

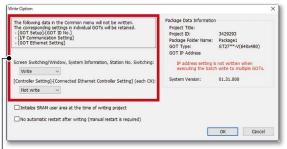
Batch installation on multiple GOTs reduces data transfer time and prevents data update omission. When multiple GOTs share the same project data on a large equipment, this feature reduces screen correction and update tasks.

* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.



The GOT identification information including the GOT IP address are automatically acquired, and the target to perform batch installation can be selected.





Set whether to write the following settings.

- Screen Switching/Window, System Information, Station No. Switching
- [Connected Ethernet Controller Setting] in the [Controller Setting] (each channel)

If [Not write] is selected, settings in each target GOT remain unchanged.

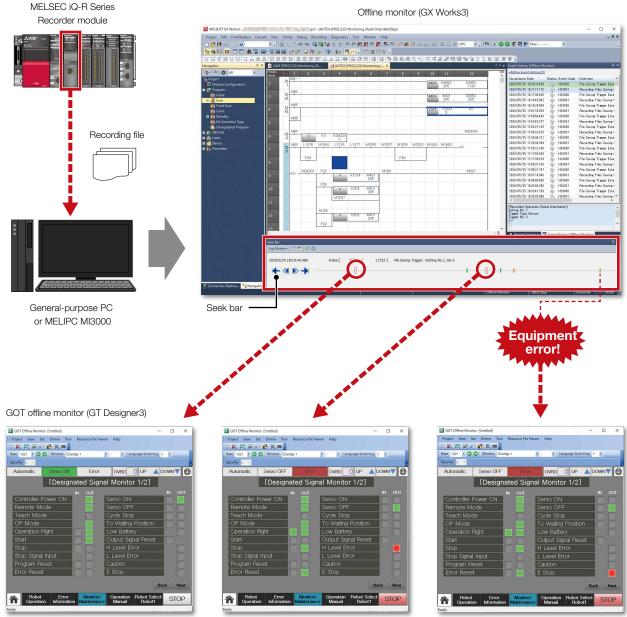
Procedure: [Communication] \rightarrow [Batch Write to multiple GOTs]

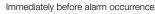
Support maintenance

GOT offline monitor

The GOT offline monitor graphically displays device values of the data (recording file) that was recorded by the system recorder before and after a problem occurrence on a personal computer.

Since the operation screen and the program having the same time stamp can be reproduced along with the operation of the seek bar on GX Works3, the actual operation and the state of the equipment can be checked simultaneously, thus helping to identify the cause of the problem quickly.





At alarm occurrence

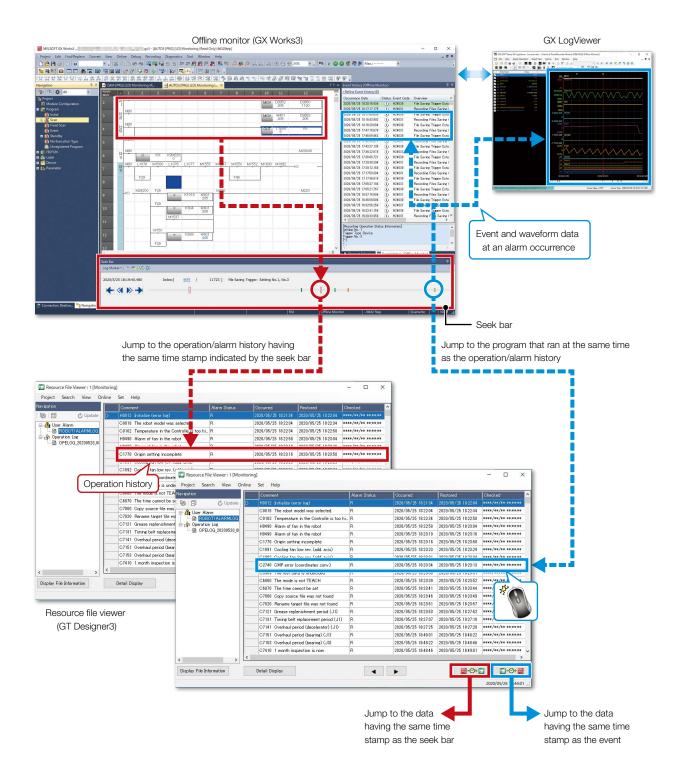
Seek bar

Normal operation

Seek bar is the function to specify the index (consecutive number that is recorded for each scan of the recording file) of the data to monitor.

Operating the slider on the seek bar enables to jump to the event information of the specified index or to check the data by synchronizing the time with the GOT offline monitor.

The resource file viewer displays the operation history and the alarm history from the resource files recorded on GOT. By synchronizing the time between the seek bar of the offline monitor (GX Works3) and the events (operation history, alarm history) on GOT, the relationship between the event data before and after an alarm occurrence and the flow of a program can be checked. *Not supported by GT21 and GS21.



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Support globalization

Speech synthesis function

Just enter arbitrary text in GT Works3 to create a sound file. It is easy to create a sound file of a message that is needed to output sound on GOT. The speaker (female/male), language, speed, pitch, and volume of the voice can be set. Messages can be created in 6 languages and you can create the sound notification system in multiple languages.

* To register or update messages, GT Works Text to Speech License (SW1DND-GTVO-M) is required.

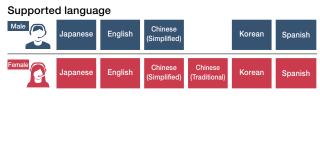
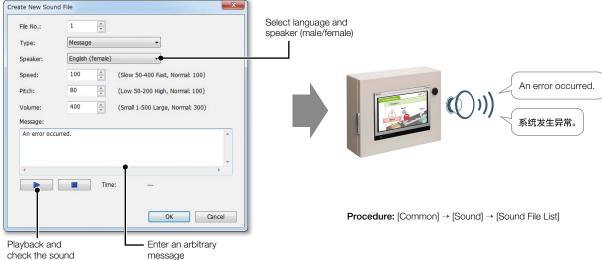
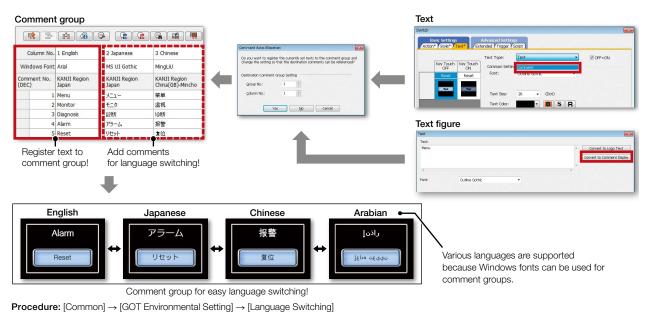


Image of creating a sound file (message)



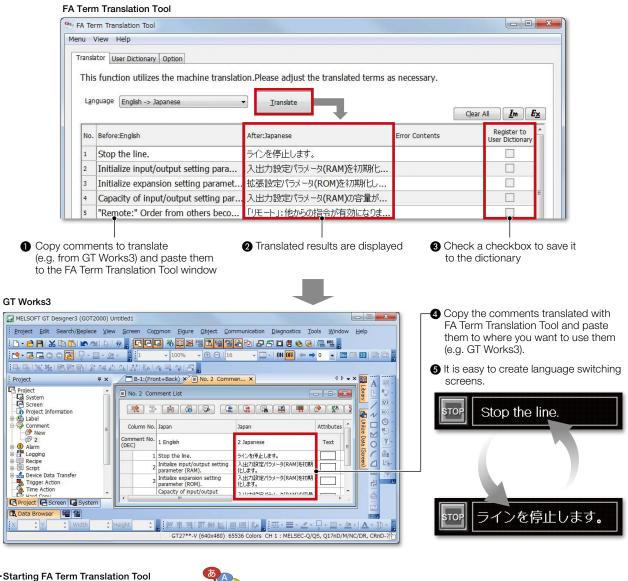
■ Language switching

Create comments of different languages, save them in separate columns, and you can switch languages easily just by switching column numbers. In addition, the character strings of switches and lamps can easily be converted from the Text or Text Figures into Comments. This makes it easy to upgrade screens to display multiple languages.





This is the software to translate comments (words, sentences) that are used in MELSOFT applications including GT Works3. The software uses the FA Term Translation Dictionary provided by Mitsubishi Electric. You can use the software even when your computer is not connected to the Internet. In addition, it is possible to create your own dictionary and switch dictionaries depending on your needs. The software supports creation of multiple language screens.



•Starting FA Term Translation Tool **Procedure:** Windows menu \rightarrow [MELSOFT] \rightarrow [

FA Term Translation Tool]

Specification details and restrictions

- Compatible language
- Japanese → English, Chinese (Simplified), Chinese (Traditional), Korean NEW , Thai NEW
- English, Chinese (Simplified), Chinese (Traditional), Korean NEW , That NEW
- Supported OS (Japanese version, English version)
- Microsoft[®] Windows[®] 10
- Microsoft[®] Windows[®] 8.1

About this tool

Translation by FA Term Translation Tool is a mechanical translation. Use this tool as a tool to support translation.

How to obtain this tool

This tool is included in the MITSUBISHI ELECTRIC FA Library DVD-ROM of GT Works3 Version 1.130L or later.

For the details, please contact your local sales office.

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e-F@ctory solves customers' issues and concerns by enabling visualization and analysis that lead to improvements and increase availability at shop floor.

e-F@ctory is the Mitsubishi Electric solution for improving the performance of any manufacturing enterprise by enhancing productivity, and reducing the maintenance and operations costs together with seamless information flow throughout the plant. e-F@ctory helps to reduce the overall TCO* and is achieved in the following four areas: *TCO: Total Cost of Ownership

Reduce energy costs

Energy saving solution

Modern manufacturing depends much on reducing energy costs as a way to realize an efficient manufacturing enterprise. e-F@ctory supports this by allowing visualization of real-time energy usage, helping to reduce the overall energy consumption.

Integrate FA and IT systems at low cost

Edge-computing (FA-IT information connection)

e-F@ctory solutions provide direct connectivity from the shop floor to enterprise, such as Manufacturing Execution System (MES) without requiring a gateway computer. This enables leaner operations, improved yield, and efficient management of the supply chain.

Reduce development, production, and maintenance costs

iQ Platform

The iQ Platform minimizes costs at all phases of the automation life cycle by improving development times, enhancing productivity, reducing maintenance costs, and making information more easily accessible. Integration is at the heart of the iQ Platform, with a highly intelligent controller platform as the core, combined with a seamless communication network and an integrated engineering environment.

iQ Platform

Reduce setup and maintenance costs

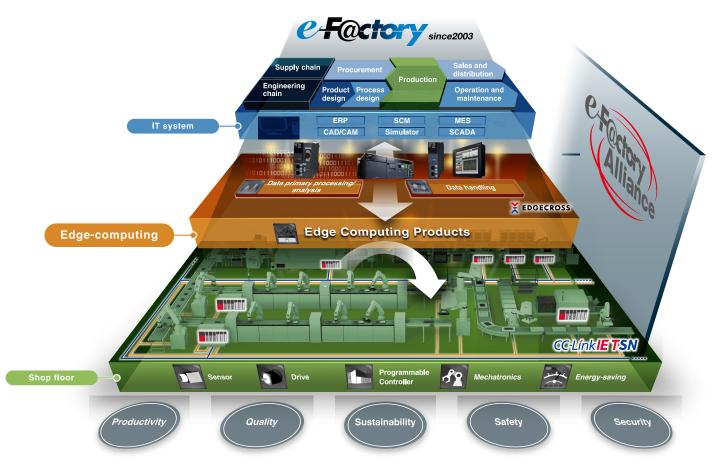
iQ Sensor Solution

Easily setup and maintain various types of sensors. Maintenance and design costs can be reduced as compatible iQSS partner sensors can be managed together.





FA integrated solutions reduce total cost



Overall production information is captured in addition to energy information, enabling the realization of efficient production and energy use (energy savings).

Best-in-class solutions across the ecosystem

e-F@ctory Alliance

The e-F@ctory Alliance is an ecosystem offering best-in-class solutions by combining products between Mitsubishi Electric and its various partners. Close collaboration with such partners broaden the choices for the customer and realize the best solution possible.



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Related materials Various catalogs and leaflets are available.

Extensive lineup and solutions for various applications



GOT2000 Series Wide Model L(NA)08461ENG



GOT2000 Series White & Open L(NA)08414ENG



GOT2000 Series Rugged Model L(NA)08555ENG



GOT2000 Series Handy GOT L(NA)08506ENG

First Guide



GT SoftGOT2000 Solutions L(NA)08606ENG



GOT2000 Series GOT Mobile Function Application Examples L(NA)08464ENG



FA Application Package iQ Monozukuri Process Remote Monitoring L(NA)08674ENG

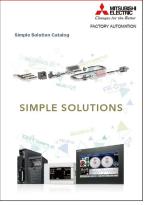


GOT2000 Series Quick Start Guide L(NA)08311ENG

■ GOT SIMPLE Series catalogs

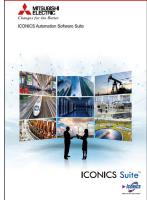


GOT SIMPLE Series* L(NA)08649ENG (D700 Version) L(NA)08676ENG (CS80 Version)



Simple Solution Catalog* L(NA)08602ENG (D700 Version) L(NA)08355ENG (CS80 Version)



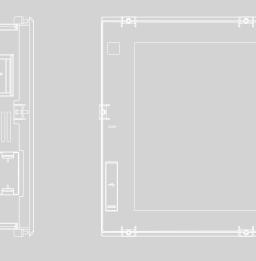


ICONICS Automation Software Suite (L(NA)08785ENG)

* The inverter model in the catalog differs depending on the catalog number.

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Specifications

GT27 model

General specifications

Item			Specifica				1			
Operating ambient temperature *1			0 °C to 55	5 °C *2			1.			
Storage ambient temperature			–20 °C to	60 °C						
Operating ambient humidity		1	0% RH to 90% RH,	non-condensing						
Storage ambient humidity	10% RH to 90% RH, non-condensing									
			Frequency	Acceleration	Half amplitude	Sweep count].			
	Compliant with	Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each				
Vibration resistance	JIS B 3502 and	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction				
	IEC 61131-2 *7	Under continuous	5 to 8.4 Hz	-	1.75 mm					
		vibration	8.4 to 150 Hz	4.9 m/s ²	-	1 –				
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 3 times in each X, Y, or Z direction)									
Operating atmosphere *6	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)									
Operating altitude *3	2000 m or less									
Installation location			Inside contr	ol panel						
Overvoltage category *4			ll or le	SS			١.			
Pollution degree *5			2 or le	ISS						
Cooling method			Self-cod	oling						
Grounding		vith a ground resistance a of 2 mm ² or more.					.			
Operate and store the GO	DT in environments wit	hout direct sunlight, h	nigh temperature, du	ist, humidity, and vit	orations.					
For the status of conform BV/DNV/LR/NK/RINA]), p			A, ATEX, UL/cUL, CI	ass I Division 2, KC,	KCs, and maritime	certifications [ABS/	Ϊ.			

Includes the temperature inside the enclosure of the control panel to which the GOT is installed.

- 2 When any of the following units or option is mounted, the maximum operating ambient temperature must be 5 °C lower than the one described in the general specifications: multimedia unit (GT27-MMR-2), MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BF13), CC-Link communication unit (GT15-J61BT13), protective cover for oil.
- 3 Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- 5 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
 6 Some models have ANSUISA 12.12.01 approval for use in
- 6 Some models have ANSI/ISA 12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2 No.213-M1987) hazardous locations. For applicable GOT models, please contact your local sales office.
- The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in JIS B 3502:2021 and IEC 61131-2 ED.3. The product was tested by using the former definition, 1 G = 9.8 m/s².

Performance specifications

		Specifications							
	Item	GT2715-XTBA GT2715-XTBD	GT2712-STBA GT2712-STBD	GT2712-STWA GT2712-STWD	GT2710-STBA GT2710-STBD				
	Display device	TFT color LCD							
	Screen size	15"	12	2.1"	10.4"				
	Resolution	XGA: 1024 × 768 dots							
	Display size	304.1(11.97) (W) × 228.1(8.98) (H) mm(inch)	246(9.69) (W) × 184	.5(7.26) (H) mm(inch)	211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)				
Display section *1 *2	Number of displayed characters	16-dot standard font: 64 characters × 48 lines (two-byte characters) 12-dot standard font: 85 characters × 64 lines (two-byte characters)	8 lines (two-byte characters) 16-dot standard font: 50 characters × 37 lines (two-byte characters) t standard font: 85 characters × 12-dot standard font: 66 characters × 50 lines (two-byte characters) 4 lines (two-byte characters) 12-dot standard font: 66 characters × 50 lines (two-byte characters)						
	Display color		65536	colors					
	Brightness adjustment	32 levels							
	Backlight	LED (not replaceable)							
	Backlight life *4	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)							
	Туре	Analog resistive film							
Touch panel	Key size	Minimum 2 × 2 dots *8 (per key)							
*3 *11	Simultaneous press	Up to two points							
	Life								
Panel color		Bla	ck	White	Black				
	Detection length		-						
Human sensor	Detection temperature	Temperature diffe	-						
User memory	User memory capacity	Memory for storage (ROM) *12: 57 MB Memory for operation (RAM): 256 MB *13							
Oser memory	Life (number of write times)	100000 times							
Built-in clock pre	ecision		±90 seconds/month (am	bient temperature: 25 °C)					
		GT11-50BAT lithium battery							
Battery	Data to be backed up	SRAM data, clock data, system status log data							
	Life	Approx. 5 years (ambient temperature: 25 °C)							
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)							
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)							
	Ethernet	1 channel Data	ITO MDI/MDI-X						
	USB (host)	2 channels (front	face, rear face)	1 channel (rear face)	2 channels (front face, rear face)				
	USB (HUSI)		USB version: USB 2.0 (High-Speed	480 Mbps), Connector shape: USB-A					
Built-in interface	USB (device)	1 channel (front face)	1 channel (rear face)	1 channel (front face)				
	USB (device)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B							
	SD memory card *12	1 channel, SDHC compliant (maximum 32 GB)							
	Extension interface *7	For installing a communication unit or an option unit							
	Auxiliary extension interface								
	Side interface	For installing a communication unit							
Buzzer output		Single tone (tone and tone length adjustable)							
POWER LED			2 colors (blue	e and orange)					
Protective struct	ure *5		Front: IP67F *6 *9 Ins	ide control panel: IP2X					
Safety standards, radio laws (as of June 2023)		CE, UKCA, L	IL, cUL, KC	CE, UKCA, ATEX ^{*10} , UL, cUL, Class I Division 2, KC, KCs ^{*10}	CE, UKCA, UL, cUL, KC				
External dimensions		397(15.63) (W) × 300(11.81) (H) × 60(2.36) (D) mm(inch)	316(12.44) (W) × 246(9.69)	(H) × 52(2.05) (D) mm(inch)	303(11.93) (W) × 218(8.58) (H) × 52(2.05) (D) mm(inch)				
Panel cut dimen	sions	383.5(15.10) (W) × 282.5(11.12) (H) mm(inch)	302(11.89) (W) × 22	8(8.98) (H) mm(inch)	289(11.38) (W) × 200(7.87) (H) mm(inch)				
Weight (excludin	ig a fitting)	4.5(9.9) kg(lb)	2.4(5.3	3) kg(lb)	2.1(4.6) kg(lb)				
Compatible soft	ware package		GT Works3 Versi	on 1.270G or later					

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

*2 Flickering may occur due to vibration, shock, or the display colors.

*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.

Material: polyacetal resin
 • Tip radius: 0.8 mm or more

*4 To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

*5 Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

Power supply specifications

Item		Specifications										
		GT2715-XTBA	GT2712-STBA GT2712-STWA	GT2710-STBA GT2710-VTBA GT2710-VTWA	GT2708-STBA GT2708-VTBA	GT2715-XTBD	GT2712-STBD GT2712-STWD	GT2710-STBD GT2710-VTBD GT2710-VTWD	GT2708-STBD GT2708-VTBD	GT2705-VTBD		
Power su	pply voltage	100 V AC to 240 V AC (+10%, -15%)					24 V DC (+25%, -20%)					
Power su	pply frequency	50 Hz/60 Hz (±5%)				=						
	Under the maximum load	51 W or less	44 W or less	41 W or less	41 W or less	48 W or less	45 W or less	42 W or less	39 W or less	30 W or less		
Power consumption	Main unit	25 W	19 W	17 W	15 W	23 W	18 W	15 W	13 W	7 W		
Consumption	Main unit (backlight OFF)	10 W	10 W	10 W	10 W	8 W	8 W	8 W	8 W	5 W		
Inrush current		40 A or less (3 ms, ambient temperature: 25 °C, under the maximum load)	(2 ms, ambient temperature: 25 °C, under the maximum load)			5 A or less (1 ms (20 ms, ambient temperature: 25 °C, under the maximum load) 25 °C,				69 A or less (1 ms, ambient temperature: 25 °C, under the maximum load)		
Permissible instantaneous power failure time		20 ms or less (100 V AC or more)				10 ms or less						
Noise immunity		Noise voltage: 1500 Vp-p, noise width: 1 μ s, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz				Noise voltage: 500 Vp-p, noise width: 1 μ s, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz						
Withstand voltage		1500 V AC for 1 minute across power terminals and earth 350 V AC for 1 minute across power terminals and earth										
Insulation resistance		500 V DC across power terminals and earth, 10 M Ω or more by an insulation resistance tester										

Item		Specifications							
		GT2710-VTBA GT2710-VTBD	GT2710-VTWA GT2710-VTWD	GT2708-STBA GT2708-STBD	GT2708-VTBA GT2708-VTBD	GT2705-VTBD			
	Display device			TFT color LCD					
	Screen size	10.4"			4"	5.7"			
	Resolution	VGA: 640 × 480 dots		SVGA: 800 × 600 dots	VGA: 640	× 480 dots			
	Display size	211.2(8.31) (W) × 15	3.4(6.24) (H) mm(inch)	170.9(6.73) (W) × 128	3.2(5.05) (H) mm(inch)	115.2(4.54) (W) × 86.4(3.40) (H) mm(inch)			
Display section *1 *2	Number of displayed characters	(two-byte characters)		16-dot standard font: 50 characters × 37 lines (two-byte characters) 12-dot standard font: 66 characters × 50 lines (two-byte characters)	(two-byte) 12-dot standard font:	40 characters × 30 lines characters) 53 characters × 40 lines characters)			
	Display color			65536 colors					
(I	Brightness adjustment	32 levels							
	Backlight			LED (not replaceable)					
	Backlight life *4								
	Туре			Analog resistive film					
Touch panel	Key size	Minimum 2 × 2 dots ^{*8} (per key)							
*3 *11	Simultaneous press	Up to two points							
	Life	1 million touches or more (operating force: 0.98 N or less)							
Panel color		Black	White		Black				
Human sensor	Detection length								
riaman concor	Detection temperature								
User memory	User memory capacity	Memory for storage (ROM) *12: 57 MB Memory for storage (ROM) *12: 32 ME Memory for operation (RAM): 256 MB *13 Memory for operation (RAM): 80 MB							
	Life (number of write times)	100000 times							
Built-in clock pre	ecision	±90 seconds/month (ambient temperature: 25 °C)							
		GT11-50BAT lithium battery							
Battery	Data to be backed up	SRAM data, clock data, system status log data							
	Life	Approx. 5 years (ambient temperature: 25 °C)							
	RS-232			57600, 38400, 19200, 9600, 4800	<u> </u>	. ,			
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)							
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X							
	USB (host)	2 channels (front face, rear face)	2 channels (front face, rear face)						
		USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A							
Built-in interface	USB (device)	1 channel (front face)	1 channel (rear face)	1 channel (front face) (High-Speed 480 Mbps), Connector shape: USB Mini-B					
	. ,								
	SD memory card *12	1 channel, SDHC compliant (maximum 32 GB)							
	Extension interface *7			alling a communication unit or an op	ption unit				
	Auxiliary extension interface		For installing	an option unit		-			
	Side interface	For installing a communication unit Single tone (tone and tone length adjustable)							
Buzzer output			Sing		able)				
POWER LED Protective struct	• *E		F	2 colors (blue and orange) ht: IP67F *6 *9 Inside control panel:	IDOV				
			Fro CE, UKCA, ATEX ⁺¹⁰ , UL, cUL,	it. IFO/F 0 9 Inside control panel:					
Safety standards, radio laws (as of June 2023)		CE, UKCA, UL, cUL, KC	Class I Division 2, KC, KCs *10		CE, UKCA, UL, cUL, KC				
External dimens			(H) × 52(2.05) (D) mm(inch)	241(9.49) (W) \times 194(7.64) (H) \times 52(2.05) (D) mm(inch)		167(6.57) (W) × 139(5.47) (H) × 60(2.36) (D) mm(inch)			
Panel cut dimen	isions	289(11.38) (W) × 20	0(7.87) (H) mm(inch)	227(8.94) (W) × 176	6(6.93) (H) mm(inch)	153(6.02) (W) × 121(4.76) (H) mm(inch)			
Weight (excludin	0 0,	2.1(4.6) kg(lb) 1.5(3.3) kg(lb) 1.0(2.2) kg(lb)							
Compatible soft	ware package			GT Works3 Version 1.270G or later					

*6 To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)

When using a GT2705-VTBD with multiple devices such as extension units, a barcode reader, and an RFID controller, the total amount of current must be within the maximum amount of current supplied by the GT2705-VTBD. For the details, please refer to the relevant manual of the GOT2000 Series. *7

The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. • Key size: 16 × 16 dots or larger • Distance between keys: 16 dots or more *8

*9 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

*10 ATEX and KCs are supported by GT2712-STWD and GT2710-VTWD (24 V DC power supply type) only.

*11 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

12 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

*13 If the function version is B or earlier, the memory for operation (RAM) is 128 MB.

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Specifications

GT25 model

* For the specifications of GT25 wide models, GT25 handy GOT, and GT25 rugged model, please refer to pages 146 to 149.

General specifications

Item	Specifications 1							
Operating ambient temperature *1	0 °C to 55 °C *2 *7							
Storage ambient temperature	-20 °C to 60 °C							
Operating ambient humidity	10% RH to 90% RH, non-condensing ^{*8}							
Storage ambient humidity		10	0% RH to 90% RH, 1	non-condensing *8			1	
			Frequency	Acceleration	Half amplitude	Sweep count		
	Compliant with	Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each		
Vibration resistance	JIS B 3502 and	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction		
	IEC 61131-2 *9	Under continuous vibration	5 to 8.4 Hz	-	1.75 mm		1	
			8.4 to 150 Hz	4.9 m/s ²	-	1 –		
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 3 times in each X, Y, or Z direction) *2							
Operating atmosphere *6	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)							
Operating altitude *3	2000 m or less							
Installation location	Inside control panel							
Overvoltage category *4	Il or less *5							
Pollution degree *5	2 or less							
Cooling method	Self-cooling							
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more. If impossible, connect the ground cable to the control panel.							
Operate and store the GO	DT in environments wit	hout direct sunlight, h	igh temperature, du	ist, humidity, and vit	orations.]	
For the status of conform BV/DNV/LR/NK/RINA]), p			A, ATEX, UL/cUL, C	ass I Division 2, KC,	KCs, and maritime	certifications [ABS/	*7	

- 1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.
- *2 When any of the following units or option is mounted, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications: MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BR13), CC-Link communication unit (GT15-J61BT13), protective cover for oil.
- Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control ٠3 panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- *5 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by
- condensation shall be expected depending on the conditions. Some models have ANSI/ISA 12.12.01 approval for use in 6 Class I, Division 2 (ANSI/SA 12.12.01 q.22) or 2018 (a) 100 (2018) (2
- When GT2505-VTBD is installed vertically, the operating *7 ambient temperature must be between 0 °C and 50 °C
- If the ambient temperature of GT2505-VTBD exceeds 40 °C. *8 the absolute humidity must not exceed 90% RH at 40 °C.
- The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in JIS B 3502:2021 and IEC 61131-2 ED.3. The product was *9 tested by using the former definition, 1 G = 9.8 m/s²

Performance specifications

Item				Specifications						
		GT2512-STBA GT2512F-STNA		GT2510-VTBA GT2510-VTWA		GT2510F-VTNA				
		GT2512-STBD	GT2512F-STND	GT2510-VTBD	GT2510-VTWD	GT2510F-VTND				
	Display device			TFT color LCD						
	Screen size	12.1"		10.4"						
	Resolution	SVGA: 800 × 600 dots			VGA: 640 × 480 dots					
	Display size	246(9.69) (W) × 184.5(7.26) (H) mm(inch)		211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)						
Display section	Number of displayed	16-dot standard font: 50 characte	rs × 37 lines (two-byte characters)	16-dot standard font: 40 characters × 30 lines (two-byte characters)						
*1 *2	characters	12-dot standard font: 66 characte	rs × 50 lines (two-byte characters)	12-dot standard font: 53 characters × 40 lines (two-byte characters)						
	Display color			65536 colors						
	Brightness adjustment	32 levels								
	Backlight	LED (not replaceable)								
	Backlight life *4	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)								
	Туре	Analog resistive film								
Touch panel	Key size	Minimum 2 × 2 dots ^{*9} (per key)								
*3 *12	Simultaneous press		Not a	vailable *5 (Only 1 point can be touc	ched.)					
	Life	1 million touches or more (operating force: 0.98 N or less)								
Panel color		Black	—	Black	White	-				
	User memory capacity	Memory for storage (ROM) ⁺¹³ ; 32 MB Memory for operation (RAM): 80 MB								
User memory	Life (number of write times)	100000 times								
Built-in clock pre	ecision	±90 seconds/month (ambient temperature: 25 °C)								
		GT11-50BAT lithium battery								
Battery	Data to be backed up	SRAM data, clock data, system status log data								
	Life	Approx. 5 years (ambient temperature: 25 °C)								
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)								
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)								
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X								
	USB (host)	2 channels (front face, rear face) 1 channel (rear face) 2 channels (front face, rear face) 1 channel (rear face)								
Built-in interface		USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A								
Built-In Interface	USB (device)	1 channel (front face) 1 channel (rear face) 1 channel (front face) 1 channel (rear face)								
	USB (device)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B								
	SD memory card *13	1 channel, SDHC compliant (maximum 32 GB)								
	Extension interface	For installing a communication unit or an option unit								
	Side interface	For installing a communication unit								
Buzzer output		Single tone (tone and tone length adjustable)								
POWER LED		2 colors (blue and orange)								
Protective structure *6		Front: IP67F *7 *10 Inside control panel: IP2X	Front: IP67F *8 *10 Inside control panel: IP2X	Front: IP67F *7 *10 Inside control panel: IP2X	Front: IP67F ^{*10} Inside control panel: IP2X	Front: IP67F *8 *10 Inside control panel: IP2X				
Safety standards, radio laws (as of June 2023)		CE, UKCA, UL, cUL, KC		·	CE, UKCA, ATEX *11, UL, cUL, Class I Division 2, KC, KCs *11	CE, UKCA, UL, cUL, KC				
External dimensions		316(12.44) (W) × 246(9.69) (H) × 52(2.05) (D) mm(inch)	311(12.24) (W) × 237(9.33) (H) × 54(2.13) (D) mm(inch)			298(11.73) (W) × 209(8.23) (H) × 54(2.13) (D) mm(inch)				
Panel cut dimen	isions	302(11.89) (W) × 228(8.98) (H) mm(inch)	269(10.59) (W) × 214(8.43) (H) mm(inch)	289(11.38) (W) × 20	0(7.87) (H) mm(inch)	234(9.21) (W) × 187(7.36) (H) mm(inch)				
Weight (excludir	ng a fitting)	2.4(5.3) kg(lb) 2.1(4.6) kg(lb)								
Compatible soft	ware package			GT Works3 Version 1.270G or later						
		**								

As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged. *1

*2 Flickering may occur due to vibration, shock, or the display colors.

*3

When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.

Material: polyacetal resin
Tip radius: 0.8 mm or more

*4 To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

*5 If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not touch two points or more simultaneously on the touch panel.

Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or *6 soaked in oil mist

Power supply specifications

					Specifications			
	ltem	GT2512-STBA GT2512F-STNA	GT2510-VTBA GT2510-VTWA GT2510F-VTNA	GT2508-VTBA GT2508-VTWA GT2508F-VTNA	GT2512-STBD GT2512F-STND	GT2510-VTBD GT2510-VTWD GT2510F-VTND	GT2508-VTBD GT2508-VTWD GT2508F-VTND	GT2505-VTBD
Power sup	oply voltage	100 \	/ AC to 240 V AC (+10%, -	-15%)		24 V DC (+25%, -20%)		24 V DC (+10%, -15%)
Power sup	oply frequency		50 Hz/60 Hz (±5%)			-	-	
Power	Under the maximum load	35 W or less	34 W or less	31 W or less	37 W or less	33 W or less	31 W or less	8.4 W or less
consumption	Main unit	14 W	12 W	11 W	13 W	10 W	8 W	4.3 W
Consumption	Main unit (backlight OFF)	7 W	7 W	7 W	6 W	6 W	6 W	2.6 W
Inrush cur	rent	(2 ms, ambient te	60 A or less mperature: 25 °C, under th	ne maximum load)	(20 ms, ambient te	5 A or less emperature: 25 °C, under t	he maximum load)	42 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)
Permissib failure time	le instantaneous power e	20	ms or less (100 V AC or m	ore)		10 ms	or less	
Noise imn	Ise immunity Noise voltage: 1500 Vp-p, noise width: 1 µs, Measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz Measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz		Noise voltage: 1000 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz					
Withstanc	l voltage	1500 V AC for 1	I minute across power terr	ninals and earth	350 V AC for 1	minute across power term	inals and earth	500 V AC for 1 minute across power terminals and earth
Insulation	resistance		500 V I	DC across power terminals	and earth, 10 M Ω or more	e by an insulation resistance	e tester	

Deskty sector Amarcters Number of disglayed Amarcters 1:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0				Specifi	Specifications					
Display device G125084-V18D G12508-V18D C000000000000000000000000000000000000		Item	GT2508-VTBA	GT2508-VTWA	GT2508F-VTNA					
Soreen size 6.7' Deplay section VOI: 640 + 400, doi: Deplay size 170.967.73 (M) × 128.25, 05 (H) mm(not) 115.245.54 (W) × 86.43.40 (H) mm(not) 1*2' Deplay size 115.245.55 (M) × 128.25, 05 (H) mm(not) 115.245.51 (W) × 86.43.40 (H) mm(not) 1*2' Deplay size 12:00 tarking doi: 10:00 tarking doi: 10:00 tarking doi: Deplay size Deplay size 12:00 tarking doi: 10:00 tarking doi: 10:00 tarking doi: Deplay size Deplay size 12:00 tarking doi: 10:00 tarking doi: 10:00 tarking doi: 10:00 tarking doi: Backlight			GT2508-VTBD	GT2508-VTWD	GT2508F-VTND	GT2505-VTBD				
Beschard Web Res / 400 dots Display size 1709/67.73(M) x 128.25(50) (M) res /hot-byte characters) 115.24(54) (M) x 86.43.40) (M) mmlnd 115.24(54) (M) x 86.43.40) (M) x 8		Display device		TFT cc	lor LCD					
Display sector 170.96.73 MV 1282.60 9 H mmpch1 115.24.54 MV x 86.43.40 (H) mmpch1 112.glash sector 115.24.54 MV x 86.43.40 (H) mmpch1 115.24.54 (MV x 86.43.40 (H) mmpch1 112.glash sector 12.54 standard fort: 52 dhanctlars x 50 lines (how-byte characters) 115.244.54 (MV x 86.43.40 (H) mmpch1 Display sector 12.54 standard fort: 52 dhanctlars x 50 lines (how-byte characters) 115.244.54 (MV x 86.43.40 (H) mmpch1 Display sector 22 breats 32 breats 32 breats Backgrift H ⁴ Approx.60000 h (spanting muthatin temperature: 25 °C, display intensity: 50%) 44.400 (H) mmpch1 Touch pant Kin Vietor Minimum 2 x 2 dots "0 pre ko) 57.01 (H) point con be touched.3 Touch pant Simultaneous press Nota masketing "3 (MV i 128.20 (MV i 138.20 M) Minimum 2 X 2 dots "0 pre ko) Simultaneous press Nota masketing "3 (MV i 128.20 M) Memory for storage (FOM '13.20 M) Memory for storage (FOM '13.20 M) Use memory capabity Memory for storage (FOM '13.20 M) Memory for storage (FOM '13.20 M) Memory for storage (FOM '13.20 M) Battery Dista for the more storage (FOM '13.20 M) Memory for storage (FOM '13.20 M) Memory for storage (FOM '13.20 M) Battery Dista				5.7"						
Isglay sector Number of displayed haracters 1		Resolution								
1*2* dramaches 12-dot standard for: 53 chances x 0 lines (wo-byte characters) Bight solar 6553 could Backgitt life *4 -2 basels Approx. 6553 could Backgitt life *4 -2 basels Small solar -2 basels Backgitt life *4 -2 basels Small solar -2 basels Small solar -2 basels Backgitt life *4 -2 basels Small solar -2 basels Small solar -2 basels Small solar -2 basels Part color -2 basels Variance of write solar -2 basels Variance of write solar -2 basels Backgitt life variance of write solar -2 basels variance of v		Display size		115.2(4.54) (W) × 86.4(3.40) (H) mm(inch)						
Brighmes adjustment Backlight 12 Eol (not repleaseld) Backlight Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%) Touch pand 3° 12° Type Analog and temperature: 25 °C, display intensity: 50%) Backlight file *4 Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%) Bruit nocus press Smutlaneous press - Brand color Black Memory for storage (PON) 1 3: 32 MB Brand color Black Memory for storage (PON) 13: 32 MB User memory Life (number of write) Black - Black Built-in clock precision a90 second/morth (ambient temperature: 25 °C) - - Built-in clock precision a90 second/morth (ambient temperature: 25 °C) - - Built-in clock precision a90 second/morth (ambient temperature: 25 °C) - - Built-in clock precision a90 second/morth (ambient temperature: 25 °C) - - Built-in clock precision a90 second/morth (ambient temperature: 25 °C) - - - Built-in clock precision a1 channel Transmission speed: 115200, 57600, 34400, 19200, 9600, 4800 bps. Connector shape: D-sub 9-pin (memie) </td <td></td> <td></td> <td></td> <td colspan="6">16-dot standard font: 40 characters × 30 lines (two-byte characters)</td>				16-dot standard font: 40 characters × 30 lines (two-byte characters)						
Backgirt ILE Dut replaceable) Touch parel 3*12 Type Approx. 60000 h (sparating anbient temperature: 25 °C, display intensity: 50%) Analog results ⁶ (m) Touch parel 3*12 Simultaneous press Minimum 22 d tots ¹⁰ (per key) Touch parel 5*12 Touch parel 3*12 Simultaneous press Minimum 22 d tots ¹⁰ (per key) Touch parel 5*2 d tots ¹⁰ (per key) Touch parel 3*12 Simultaneous press Back White - Black Ver memory capacity Back White - Black Black User memory capacity Memory for storage (POM ¹¹ /s) 22 MB Black Black Black Batterin dock pression 490 seconds/month (ambient temperature: 25 °C) Touch parel 5*20 Touc		Display color								
Backlight life '4 Approx. 60000 h (sperafing ambutine ttemperature: 25 °C), display intensity: 50%; Touch parel 13 '12' Type Analog resistive film Very State Minimum 2 x 2 dots "0 (per key) Simultaneous press Not available" (Chy) 1 point can be touched.) Life Imbitioned pression Back Panal color Black White - Balt in dock procession Black Memory for storage (ROM, '15', 32 MB Memory for storage (ROM, '15', 32 MB User memory/ Life (number of write time) 1000000 times 1000000 times Batt in dock procision _490 seconds/month (pathbert temperature: 25 °C). 5 Filt SRAM data, Lock data, system status log data 5 Batt in lock procision _490 seconds/monthent temperature: 25 °C). 5 Filt SRAM data, Lock data, system status log data 1 channel Transmission speed: 115200, 57600, 38400, 1920, 0900, 4800 tps Connector shape: D-sub 9-pin (male) Filt SR-422485 1 channel Transmission speed: 115200, 57600, 38400, 1920, 0900, 4800 tps Connector shape: D-sub 9-pin (female) Built in interface 1 channel fort face, rear face) 1 channel fere face) 1 channel fere face) USB		Brightness adjustment	32 levels							
Touch part Type Type Touch part Key size Minimum 2 x 2 dots ¹⁰ (par key) 3'12 Simultaneous press Not available ¹⁰ (hy) 1 point can be touched.) Simultaneous press Intilian touches or more (operating force: 0.98 N or tess) Parel color Black While – User memory User memory capacity Memory for participant (FAM): 80 MB Black Built-In clock procision a/90 seconds/month (ambient temperature: 25 °C) Edited to be backed up Generative: 25 °C) Battery Data to be backed up GR-232 1 channel Transmission speed: 11:500, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (mak) Bes/222 1 channel Transmission speed: 11:500, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (mak) Built-in interface 1 channel (tront face) 1 channel (tront face) 1 channel (tront face) Built-in interface 2 channels (tront face, rear face) 1 channel (tront face) 1 channel (tront face) Built-in interface 1 channel (tront face) 1 channel (tront face) 1 channel (tront face) 1 channel (tront face) Built-in interface USB (device) 1 channel (t		Backlight	LED (not replaceable)							
Touch panel Key size Minimum 2, 2 dots % (per key) 3*12 Simutanous press Not available % (http://point.came be touched.) Use Image: Simutanous press Image: Simutanous press Back Parel color Black White - Black User memory User memory capacity Memory for storage (FOM) *3: 32 MB Black Battery User memory User memory Ide for umber of write times) 100000 times Battery Data to be backed up - GT11-50BAI tithum battery Battery Data to be backed up - Approx.5 years (smithum temperature: 25 °C) R5-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-ph (male) - Built-in interface 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-ph (male) - Battery Data to be backed up 1 channel Transmission speed: 115200, 57600, 38400, 1920, 9600, 4800 bps Connector shape: D-sub 9-ph (male) - Built-in interface 1 channel front face, rear face) 1 channel (sear face) 1 channel (sear face) USB (forixin) 2 ch		Backlight life *4		Approx. 60000 h (operating ambient ter	mperature: 25 °C, display intensity: 50%)					
Simultaneous press Not available "5 (Only 1 point can be touched.) Life 1 million touches or more (operating force: 0.98 N of less) Panel color Black White – User memory Life frumber of write times) User memory capacity Memory for storage (ROM) '13: 32 MB Memory for programma (ROM) '13: 32 MB Built-in clock precision 1490 seconds/month (ambient temperature: 25 °C) 1 Battery Data to be backed up Life 490 seconds/month (ambient temperature: 25 °C) Battery Data to be backed up Life Approx. 5 years (ambient temperature: 25 °C) Battery Data to be backed up Life Approx. 5 years (ambient temperature: 25 °C) Battery Data to be backed up Life Approx. 5 years (ambient temperature: 25 °C) Built-in interface 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) Built-in interface 1 channel Transmission speet: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) Built-in interface 1 channel (front face) 1 channel (fort face) Built-in interface 1 channel (fort face) 1 channel (fort face) Side interface For installing a communiciation unt		Туре		Analog re	sistive film					
User Unite Interview User Interview Interview <td>Touch panel</td> <td>Key size</td> <td></td> <td>Minimum 2 × 2</td> <td>dots *9 (per key)</td> <td></td>	Touch panel	Key size		Minimum 2 × 2	dots *9 (per key)					
Panel color Black White Image of the storage (POM) "13: 32 MB Black Memory for storage (POM) "13: 32 MB User memory Life (number of write times) Memory for storage (POM) "13: 32 MB Black Memory for storage (POM) "13: 32 MB Built-in clock precision ±90 seconds/month (ambient temperature: 25 "C) Emperator (PAM) "14: 0000 times Emperator (PAM) "14: 0000 times Battery Data to be backed up	*3 *12	Simultaneous press		Not available *5 (Only 1	point can be touched.)					
User memory User memory User memory Life (number of write imes) User memory capacity Life (number of write imes) Memory for storage (ROM, '13; 32 MB Memory for operation (RAM); 80 MB Bailt-in clock precision ±90 seconds/month (ambient temperature: 25 °C) Bailt-in clock precision ±90 seconds/month (ambient temperature: 25 °C) Battery Data to be backed up Life GT11-50EAT If thium battery Battery Data to be backed up Life Approx.5 System (ambient temperature: 25 °C) RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) RS-232/RS 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) Built-in interface 1 channel (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-in interface 1 channel (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-in interface 1 channel (front face) 1 channel (front face) 1 channel (front face) USB (device) 1 channel (front face) 1 channel (front face) 1 channel (front face) SD memory card '13 Channel, SDHC compliant (maximum 32 GB) - Extension interface Fori ItBr3F* 1		Life		1 million touches or more (o	perating force: 0.98 N or less)					
User memory Internetion (GAM): 80 MB Built-in clock pre-trime 100000 times Built-in clock pre-trime GT11-50BAT lithium battery GT1-50BAT lithium battery Battery Data to be backed up [He CATLE Built-in clock pre-trime GT1-50BAT lithium battery Battery Data to be backed up [He CATLE Battery Data to be backed up [He CATLE CATLE Battery Data to be backed up [He Channel Transmission speed: 115200, 57600, 38400, 19200, 9800, 4800 bps Connector shape: Dsub 9-pin (male) Battery Data transfer method: 100BASE-TX, 100ASE-TX, 100ASE Connector shape: USB AL USB (device) 1 channel (front face, era face) 1 channel (rear face) 1 channel (rear face) Built-in inferace For installing a communication unit or an option unit Extension interface Connector shape: USB Min-B	Panel color		Black	White	-	Black				
Life (number of write times) Image: Constraint of write times) Image: Constraint of write times) Image: Constraint of write times) Built-in clock precision ±90 second/month (ambient temperature: 25 °C) CT11-50BAT lithium battery Battery Data to be backed up Urie SRAM data, clock data, system status log data CT11-50BAT lithium battery R5-422.4455 1 channel Transmission speed: 115200, 57600, 38400, 12200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) R5-422.4455 1 channel Transmission speed: 115200, 57600, 38400, 12200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) Built-in interface 1 channel Transmission speed: 115200, 57600, 38400, 12200, 9600, 4800 bps Connector shape: D-sub 9-pin (male) Built-in interface 1 channel (ront face, near face) 1 channel (rear face) 1 channel (rear face) Built-in interface 1 channel (ront face) 1 channel (rear face) 1 channel (rear face) Built-in interface Side interface For installing a communication unit - Buzzer output- Side interface For installing a communication unit - POWER LED Fort: IP67F '7'10 Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Inside cont	Lloor momon (User memory capacity								
Battery Data to be backed up Life Carti-soBAT lithium battery Battery Data to be backed up Life SPAM data, clock data, system status log data RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps: Connector shape: D-sub 9-pin (male) RS-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps: Connector shape: D-sub 9-pin (female) Built-in interface 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (nost) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (nost) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (nost) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB A 1 channel (front face) 1 channel (rear face) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B SD memory card '13 Extension interface For installing a communication unit Side interface For installing a communication unit Restricts structure '6 Side interface Forcit	Oser memory		100000 times							
Battery Data to be backed up Life SFRAM data, clock data, system statu log data Approx. 5 years (ambient temperature: 25 °C) RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps: Connector shape: D-sub 9-pin (male) RS-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps: Connector shape: D-sub 9-pin (female) Built-in interface 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (host) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (device) 1 channel (front face) 1 channel (rear face) 1 channel (front face) USB (device) 1 channel (front face) 1 channel (front face) 1 channel (front face) Buzzer output USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B Side interface For installing a communication unit or an option unit Buzzer output Single tone (none and tone length adjustable) POWER LED 2 colors (blue and orange) Front: IP67F '7 '10 Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety st	Built-in clock pr	ecision								
Life Approx.5 years (ambient temperature: 25 °C) RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps. Connector shape: D-sub 9-pin (male) RS-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps. Connector shape: D-sub 9-pin (female) Ethermet 1 channel Data transfer method: 100BASE-TX, 10BASE-T. Connector shape: D-sub 9-pin (female) USB (host) 2 channels (front face, near face) 1 channel (rear face) USB (device) 1 channel (front face) 1 channel (rear face) SD memory card ¹¹³ 1 channel (front face) 1 channel (rear face) SD memory card ¹¹³ 1 channel (front face) - Buzzer output Side interface - POWER LED 2 clores (blue and orange) Front: IP67F ¹⁷ ¹⁰ Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety standards, radio laws CE, UKCA, UL, cUL, KC CE, UKCA, KCA, TL, cUL, KC CE, UKCA, WI, v194(7.64) (H) × 52(2.05) (D) mm(inch) Safety standards, radio laws 221(8.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 192(9.29) (W) × 185(7.28) (H) × 53.62(2.11) (D) mm(inch) Panel cut dimensions 221(8.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch)										
RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) RS-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) Ethernet 1 channel Data transformethod: 100BASE-TX, 10BASE-T Connector shape: D-sub 9-pin (female) USB (host) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) USB (device) 1 channel (front face, rear face) 1 channel (rear face) 1 channel (rear face) SD memory card '13 USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B 1 channel (front face) Buzzer output SD memory card '13 1 channel, SDHC compliant (maximum 32 GB) - Protective structure '6 For installing a communication unit or an option unit - - Protective structure '6 Front: IP67F '7 '10 Front: IP67F '7 '10 Front: IP67F '7 '10 Inside control panel: IP2X Inside control	Battery	<u> </u>								
RS-422/485 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps. Connector shape: D-sub 9-pin (female) Ethernet 1 channel Data transfer method: 100BASE-TX, 10BASE-T. Connector shape: D-sub 9-pin (female) 1 channel (rear face) Built-in interface 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-in interface 1 channel (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-in interface 1 channel (front face) 1 channel, SDHC compliant (maximum 32 GB) 1 channel (rear face) SD memory card "13 1 channel, SDHC compliant (maximum 32 GB) - Extension interface For installing a communication unit - Buzzer output Single tone (tone and tone length adjustable) - POWER LED 2 colors (blue and orange) Front: IP67F '7 '10 Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety standards, radio laws 2 41(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 236(9.29) (W) × 185(7.28) (H) × 53.5(2.11) (D) mm(inch) Restering dimensions 227(8.94) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 236(9.29) (W) × 185(7.28) (H) × 53.5(2.11) (D) mm(inch) Panel cut										
Ethernet 1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ45 (modular jack) AUTO MD/MD/-X Built-in interface 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-in interface USB (host) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB A Built-in interface 1 channel (front face) 1 channel (rear face) 1 channel (rear face) SD memory card '13 1 channel, SDHC compliant (maximum 32 GB) 1 channel Extension interface For installing a communication unit - Buzzer output Single tone (none and tone length adjustable) - POWER LED 2 colors (blue and orange) Front: IP67F '7 '10 Front: IP67F '7 '10 Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety standards, radio laws 2 41(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) CE, UKCA, UL, cUL, KC CE, UKCA, UL, cUL, KC External dimensions 221(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.2) (H) mm(inch) 153(6.02) (W) × 139(5.47) (H) × 53.5(2.1) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.2)										
Built-In interface 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-In interface USB (tost) 2 channels (front face, rear face) 1 channel (rear face) 1 channel (rear face) Built-In interface 1 channel (front face) 1 channel (rear face) 1 channel (rear face) Built-In interface 1 channel (front face) 1 channel (rear face) 1 channel (rear face) SD memory card *13 1 channel (rear face) 1 channel (maximum 32 GB) - Extension interface For installing a communication unit - Buzzer output Single tone (tone and tone length adjustable) - POWER LED 2 colors (blue and orange) Front: IP67F '7 *10 Inside control panel: IP2X Inside control panel: IP2X		RS-422/485	1 channel Trans	smission speed: 115200, 57600, 38400, 192	200, 9600, 4800 bps Connector shape: D-s	sub 9-pin (female)				
Built-in interface USB (host) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A I channel (front face) 1 channel (rear face) 1 channel (front face) Built-in interface SD memory card '13 USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B Extension interface SD memory card '13 1 channel (front face) 1 channel, SDHC compliant (maximum 32 GB) Extension interface For installing a communication unit or an option unit - Buzzer output Sigle tinterface - POWER LED 2 colors (blue and orange) Front: IP67F '7 '10 Inside control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety standards, radio laws (as of June 2023) CE, UKCA, UL, cUL, KC CE, UKCA, HL, cUL, Class I Division 2, KO, KOs '11 External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 226(9(2.9) (W) × 158(6.22) (H) × 53.5(2.11) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) × 15(3.3) kg(b) 194(7.64) (W) × 158(6.22) (H) mm(inch)		Ethernet			1 ())					
Built-in interface Interface		LISB (host)	2 channels (front face, rear face)		(1 channel (rear face)				
USB (device) 1 channel (front face) 1 channel (ront face) 1 channel (front face) SD memory card '13 USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Min-B - Extension interface For installing a communication unit or an option unit - Buzzer output - - POWER LED - - Protective structure '6 For installing 2 Control panel: IP2X Inside control panel: IP2X Inside control panel: IP2X Safety standards, radio laws (as of June 2023) CE, UKCA, UL, cUL, KC CE, UKCA, TC, KCS '11 CE, UKCA, UL, cUL, KC External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 54(2.13) (D) mm(inch) 153(6.02) (W) × 136(6.29) (H) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.22) (H) mm(inch) 153(6.02) (W) × 136(6.20) (H) mm(inch)	Built-in interface				1.2					
SD memory card "13 1 channel, SDHC compliant (maximum 32 GB) SD memory card "13 1 channel, SDHC compliant (maximum 32 GB) Extension interface	Built in interface		1 channel (front face)	1 channe	l (rear face)	1 channel (front face)				
Extension interface For installing a communication unit or an option unit Buzzer output For installing a communication unit or an option unit Buzzer output Single tone (tone and tone length adjustable) POWER LED 2 colors (blue and ronge) Front: IP67F '7 '10 Inside control panel: IP2X Inside contr			L		1.6					
Side interface For installing a communication unit – Buzzer output Single tone (tone and tone length adjustable) – POWER LED 2 colors (blue and orange) 2 colors (blue and orange) Protective structure ¹⁶ Front: IP67F ¹⁷ ¹⁰ Inside control panel: IP2X Front: IP67F ¹⁷ ¹⁰ Inside control panel: IP2X Front: IP67F ¹⁷ ¹⁰ Inside control panel: IP2X Safety standards, radio laws (as of June 2023) CE, UKCA, UL, cUL, KC CE, UKCA, ATEX ¹¹ , UL, cUL, Class I Division 2, KC, KCs ¹¹ CE, UKCA, UL, cUL, KC External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 536(2.29) (W) × 185(7.28) (H) × 54(2.13) (D) mm(inch) 164(6.46) (W) × 139(5.47) (H) × 53(2.21) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.22) (H) mm(inch) 153(6.02) (W) × 121(4.76) (H) mm(inch) Weight (excluding a fitting) 1.5(3.3) kg(lb) 0.6(1.3) kg(lb) 0.6(1.3) kg(lb)		,								
Buzzer output Single tone (tone and tone length adjustable) POWER LED 2 colors (blue and orange) Protective structure ¹⁶ Front: IP67F ¹⁷ ¹⁰ Inside control panel: IP2X Inside control panel: IP2X			For		unit	-				
POWER LED 2 colors (blue and orange) Protective structure "6 Front: IP67F "7 "10 Inside control panel: IP2X Front: IP67F "10 Inside control panel: IP2X Inside control panel: IP2X		Side interface		•		-				
Protective structure '6 Front: IP67F '7 '10 Inside control panel: IP2X Front: IP67F '10 Inside control panel: IP2X Front: IP67F '3 '10 Inside control panel: IP2X Front: IP67F '3 '10 Inside control panel: IP2X Front: IP67F '7 '10 Inside control panel: IP2X Safety standards, radio laws (as of June 2023) CE, UKCA, UL, cUL, KC CE, UKCA, TEX '11, UL, cUL, Class I Division 2, KC, KCs '11 CE, UKCA, UL, cUL, KC CE, UKCA, UL, cUL, KC External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 236(9.29) (W) × 186(7.28) (H) × 54(2.13) (D) mm(inch) 164(6.46) (W) × 139(5.47) (H) × 53.5(2.11) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.22) (H) mm(inch) 153(0.20) W) × 1214(7.61) (mm(inch) Weight (excluding a fitting) 1.5(3.3) kg(b) 0.6(1.3) kg(b) 0.6(1.3) kg(b)					• , ,					
Protective structure 'b' Inside control panel: IP2X I	POWER LED			· · · · · · · · · · · · · · · · · · ·						
(as of June 2023) CE, UKCA, UL, cUL, KC Class I Division 2, KC, KCs '11 CE, UKCA, UL, cUL, KC External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch) 236(9.29) (W) × 185(7.28) (H) × 164(6.46) (W) × 139(5.47) (H) × 53.5(2.11) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.22) (H) mm(inch) 153.60.20 (W) × 121(4.76) (H) mm(inch) Weight (excluding a fitting) 1.5(3.3) kg(b) 0.6(1.3) kg(b) 0.6(1.3) kg(b)				Inside control panel: IP2X						
External dimensions 241(9.49) (W) × 194(7.64) (H) × 52(2.05) (L) mm(inch) 54(2.13) (D) mm(inch) 53.5(2.11) (D) mm(inch) Panel cut dimensions 227(8.94) (W) × 176(6.93) (H) mm(inch) 194(7.64) (W) × 158(6.22) (H) mm(inch) 153(6.02) (W) × 121(4.76) (H) mm(inch) Weight (excluding a fitting) 1.5(3.3) kg(lb) 0.6(1.3) kg(lb) 0.6(1.3) kg(lb)			CE, UKCA, UL, cUL, KC		.,,					
Weight (excluding a fitting) 1.5(3.3) kg(lb) 0.6(1.3) kg(lb)	External dimens	sions	241(9.49) (W) × 194(7.64)	(H) × 52(2.05) (D) mm(inch)						
	Panel cut dimer	isions	227(8.94) (W) × 17	6(6.93) (H) mm(inch)	194(7.64) (W) × 158(6.22) (H) mm(inch)	153(6.02) (W) × 121(4.76) (H) mm(inch)				
	Weight (excludin	ng a fitting)			0.6(1.3) kg(lb)					
GT Works3 Version 1.270G or later	Compatible soft	ware package		GT Works3 Versi	on 1.270G or later					

To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark or the USB mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.) *7

*8 *9

To conform to IP67F attach the environmental protection sheet. The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. • Key size: 16 × 16 dots or larger • Distance between keys: 16 dots or more

*10 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

*11 ATEX and KCs are supported by GT2510-VTWD and GT2508-VTWD (24 V DC power supply type) only.
 *12 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*13 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

GT25 wide model/GT25 handy GOT

General specifications

lt aus			Specifi	cations			1*1
Item	GT25 wide model			GT25 handy GOT			*2
Operating ambient temperature *1		0 °C to 55 °C *5			0 °C to 40 °C		1
Storage ambient temperature			-20 °C t	o 60 °C			1
Operating ambient humidity		1	0% RH to 90% R	H, non-condensing			1
Storage ambient humidity		1	0% RH to 90% RI	H, non-condensing			1*3
			Frequency	Acceleration	Half amplitude	Sweep count	1
	Compliant with	Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each	1
Vibration resistance	JIS B 3502 and IEC 61131-2 *6	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction	
		Under continuous	5 to 8.4 Hz	-	1.75 mm		1
		vibration	8.4 to 150 Hz	4.9 m/s ²	-	1 –	*4
Shock resistance	Compliar	nt with JIS B 3502 and	I IEC 61131-2 (14	7 m/s² (15G), 3 times	in each X, Y, or Z di	rection)	1
Operating atmosphere	No greasy fumes,	corrosive gas, flammat	ole gas, excessive	conductive dust, and	direct sunlight (as v	vell as at storage)	1
Operating altitude *2			2000 m	or less			- *5
Installation location	1	nside control panel			_		1
Overvoltage category *3			ll or	less			1
Pollution degree *4			2 or	less			1*6
Cooling method	Self-cooling						1
Grounding		with a ground resistance ea of 2 mm ² or more.][

Includes the temperature inside the enclosure of the control panel to which the GOT is installed. (GT25 wide model)

- Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
- When a protective cover for oil is mounted on the GOT, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications
- The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in JIS B 3502:2021 and IEC 61131-2 ED.3. The product was tested by using the former definition, 1 G = 9.8 m/s².

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

For the status of conforming to various standards and laws (CE, UKCA, ATEX, UL/cUL, Class I Division 2, KC, KCs, and maritime certifications [ABS/BV/DNV/LR/NK/RINA]), please contact your local sales office.

Performance specifications

				Specifi	cations				
	Item			GT25 wid	de model				
		GT2512-WXTBD	GT2512-WXTSD	GT2510-WXTBD	GT2510-WXTSD	GT2507-WTBD	GT2507-WTSD		
	Display device			TFT col	or LCD				
	Screen size	12.1" wic	lescreen	10.1" wid	descreen	7" wid	escreen		
	Resolution		WXGA: 128	0 × 800 dots		WVGA: 800) × 480 dots		
	Display size	261.12(10.28) (W) × 16	3.2(6.43) (H) mm(inch)	216.96(8.54) (W) × 13	5.6(5.34) (H) mm(inch)	152.40(6.00) (W) × 91	.44(3.60) (H) mm (inch)		
Display section	Number of displayed characters			ers × 50 lines (two-byte charac ters × 66 lines (two-byte charac			ers × 30 lines (two-byte characters) ers × 40 lines (two-byte characters)		
	Display color	12 00		65536	,				
	Brightness adjustment								
	Backlight		32 levels LED (not replaceable)						
	Backlight life *4		Δοργογ β	50000 h (operating ambient ter		neity:: 50%)			
	Type		Approx. :	Analog res		ISILY. 3076)			
-									
Touch panel	Key size			Minimum 2 × 2					
0 11	Simultaneous press			Not available *5 (Only 1	. ,				
	Life			1 million touches or more (op	, <u> </u>				
Panel color		Black	Silver *10	Black	Silver *10	Black	Silver *10		
User memory	User memory capacity			Memory for storage Memory for operati					
Oser memory	Life (number of write times)	100000 times							
Built-in clock pre	ecision	±90 seconds/month (ambient temperature: 25 °C)							
		GT11-50BAT lithium battery							
Battery	Data to be backed up	SRAM data, clock data, system status log data							
	Life	Approx. 5 years (ambient temperature: 25 °C)							
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 1920, 9600, 4800 bps: Connector shape: D-sub 9-pin (male)							
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (filemale)							
	Ethernet	2 channel Mattadard godd - 10200 91000, 10200, 10200, 10200 9000 0000 0000 0000 0000 0000 000							
				1 channel	(rear face)				
	USB (host)		USB v	ersion: USB 2.0 (High-Speed 4	80 Mbps), Connector shape	: USB-A			
				1 channel					
Built-in interface	USB (device)		USB vers	sion: USB 2.0 (High-Speed 480	(ISB Mini-B			
	SD memory card *12			1 channel, SDHC comp	1 //				
	Wireless LAN communication unit interface			For installing a wireless L					
	Sound output interface		1	channel, WAV format (16 bits, 8 applicable plug: \$ 43.5 ste		oral)			
Buzzer output		Single tone (tone and tone length adjustable)							
POWER LED				2 colors (blue	and orange)				
Protective structure *6				Front: IP67F *7 *9 Insid					
Safety standards (as of June 2023				CE, UKCA, U					
External dimensi	/	299(11.77) (W) × 219(8.62)	(H) × 48(1.89) (D) mm(inch)	252(9.92) (W) × 194(7.64) ((H) × 48(1.89) (D) mm(inch)	189(7,44) (W) × 142(5.59)	(H) × 48(1.89) (D) mm(inch)		
Panel cut dimensi		290.5(11.44) (W) × 210		243.5(9.59) (W) × 185			3.5(5.26) (H) mm(inch)		
Weight (excludin		1.7(3.7)		1.2(2.6			.7) kg(lb)		
Compatible soft		1.7(5.7)	inAlina	GT Works3 Versic		0.75(1.			
Compatible SOT	ware package			GT WORKS3 VERSIC	IT 1.270G OF later				

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

Flickering may occur due to vibration, shock, or the display colors. *2

When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications. *3

Material: polyacetal resin
 Tip radius: 0.8 mm or more

To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist. *5 *6

To conform to IP67F, close the USB environmental protection cover by pushing the USB mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.) The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. Key size: 18 × 18 dots or targer • Distance between keys: 18 dots or more The suffix "F" of IP67F or IP65F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920. *7 *8

*9

Power supply specifications

				Specifications		
	Item		GT25 wide model		GT25 har	ndy GOT
	nem	GT2512-WXTBD GT2512-WXTSD	GT2510-WXTBD GT2510-WXTSD	GT2507-WTBD GT2507-WTSD	GT2506HS-VTBD	GT2505HS-VTBD
Power sup	oply voltage		24 V DC (+25%, -20%)		24 V DC (+1	0%, -15%)
	Under the maximum load	20 W or less	16 W (or less	11.6 W or less	8.4 W or less
Power consumption	Main unit	14 W	9	9 W		
consumption	Main unit (backlight OFF)	8 W	5 W		8.2 W	7.0 W
Inrush cur	rent	59 A or less (2 ms	59 A or less (2 ms, ambient temperature: 25 $^{\rm o}\text{C},$ under the maximum load)			ature: 25 °C, under the maximum d)
Permissib failure time	le instantaneous power e			5 ms or less		
Noise imn	nunity		ise voltage: 500 Vp-p, noise width: 1 simulator with noise frequency ranging		Noise voltage: 1000 Vp measured by a noise simulator with to 10	noise frequency ranging from 30 Hz
Withstand	l voltage	350 V AC	for 1 minute across power terminals	and earth	500 V DC for 1 minute acros	s power terminals and earth
Insulation	resistance		500 V DC across power tern	inals and earth, 10 M Ω or more by	an insulation resistance tester	

		Specifications					
	Item	GT25 ha	ndy GOT				
		GT2506HS-VTBD	GT2505HS-VTBD				
	Display device		lor LCD				
	Screen size	6.5"	5.7"				
	Resolution	VGA: 640	× 480 dots				
	Display size	132.5(5.22) (W) × 99.4(3.91) (H) mm(inch)	115.2(4.54) (W) × 86.4(3.40) (H) mm(inch)				
Display section *1 *2	Number of displayed characters	16-dot standard font: 40 characte 12-dot standard font: 53 characte					
	Display color		colors				
	Brightness adjustment	32 le	evels				
	Backlight	LED (not re					
	Backlight life *4	Approx. 40000 h (operating ambient temperature: 25 °C, display intensity: 50%)	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)				
	Туре	Analog re					
Touch panel	Key size	Minimum 2 × 2					
3 11	Simultaneous press	Not available *5 (Only 1					
	Life	1 million touches or more (op					
Panel color							
	Operation switch	6 switches (6 contacts/common), N/O contact, Maximum rating 10 mA/24 V DC, Life: 1000000 times, 6 green LEDs (lighting control from display section)	6 switches (6 contacts/common), N/O contact, Maximum rating 10 mA/24 V DC, Life: 1000000 times				
Switch	Grip switch	1 switch (single wiring) (IDEC HE38-M2PB), Enable switch 2 N/O contacts, Maximum rating 1 A/24 V DC (resistance load), M 1 green LED (lighting cor					
Switch	Emergency stop switch	1 switch (single wiring) (IDEC XA1E-BV303R), 3 N/C contacts, Maximum rating 1 A/24 V DC (resistance load), Maximum rating 0.3 A/24 V DC (induction load), Life: 100000 times					
	Keylock switch	1 switch (single wiring) (IDEC AS6M-2KT1PB), 2-notch type (Manual stop at each position/A key can be inserted and removed on only the left On the right side, a key cannot be removed./Two keys are provided.),					
	(2-position switch)	On the right stude, a key calificito be reinvolved. I workeys are provided, it. 2-position, Maximum rating 1 A/24 V DC (resistance load), Maximum rating 0.3 A/24 V DC (reduction load), Life: 100000 times					
	User memory capacity	Memory for storage (ROM) ¹² : 32 MB Memory for storage (ROM) ¹² : 32 MB					
User memory	Life (number of write times)	Memory for operation (HAW): so Mis					
Built-in clock pre	,	±90 seconds/month (ambient temperature: 25 °C)					
		GT15-BAT lithium battery	GT11-50BAT lithium battery				
Battery	Data to be backed up	SRAM data, clock data	, system status log data				
	Life	Approx. 5 years (ambient temperature: 25 °C)					
	RS-232	RS-232 or RS-422/485, 1 channel (Select one channel. RS-422/485 is set as the factory default.)	RS-232 or RS-422, 1 channel (Select one channel from RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.)				
	RS-422/485 *14	Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Square 42 pins (male)	Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Round 32 pins (male)				
Built-in interface	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: Square 42 pins (male)	1 channel (Select one channel from RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.) Data transfer method: 100BASE-TX, 10BASE-T Connector shape: Round 32 pins (male)				
	USB (host)	1 channel	(top face)				
	000 (1000)	USB version: USB 2.0 (High-Speed 4	180 Mbps), Connector shape: USB-A				
	USB (device)	1 channel	(top face)				
	. ,) Mbps), Connector shape: USB Mini-B				
	SD memory card *12	1 channel, SDHC comp	· · · · · · · · · · · · · · · · · · ·				
Buzzer output			tone length adjustable)				
POWER LED		2 colors (blue					
Protective structure *6		IP65F *9*13 (When an external cable is connected. The rating	is not applied to the relay connector side of the external cable.)				
Safety standards (as of June 2023		CE, UKCA,					
External dimensi	ions	201(7.91) (W) \times 230(9.06) (H) \times 97(3.82) (D) mm(inch) (excluding projections such as the emergency stop switch)	145(5.71) (W) × 185(7.28) (H) × 79.3(3.12) (D) mm(inch) (excluding projections such as the emergency stop switch)				
Weight		1.2(2.6) kg(lb) (GOT main unit only)	0.79(1.7) kg(lb) (GOT main unit only)				
Compatible soft	ware package	GT Works3 Versio	on 1.270G or later				

*10 The lower part of the panel including the USB environmental protection cover is black.
*11 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

12 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.
 13 The rating is not applied when the interface environment protection cover or the environmental protection back cover is removed.
 14 GT2505HS-VTBD supports RS-422 only.

∞ Specifications

GT25 rugged model

General specifications

Item		Specifications *5							
Operating ambient temperature *1		-20 °C to 65 °C *2							
Storage ambient temperature		-30 °C to 75 °C							
Operating ambient humidity		10% RH to 90% RH, non-condensing							
Storage ambient humidity		1	0% RH to 90% RH,	, non-condensing			1		
			Frequency	Acceleration	Half amplitude	Sweep count] .,		
		Under intermittent	5 to 8.4 Hz	-	7.0 mm	10 times in each	1		
Vibration resistance	Compliant with IEC 60068-2-6	vibration	8.4 to 150 Hz	19.6 m/s ²	=	X, Y, or Z direction			
	120 00000 2 0	Under continuous	5 to 8.4 Hz	-	7.0 mm		1		
		vibration	8.4 to 150 Hz	19.6 m/s ²	-] _			
Shock resistance		IEC 60068-2-27	(392 m/s ² (40G), 3	times in each X, Y, o	or Z direction)		1*4		
Operating atmosphere	No greasy fumes,	corrosive gas, flammal	ole gas, excessive c	onductive dust, and	l direct sunlight (as v	well as at storage)	1		
Operating altitude *2			2000 m c	or less			1		
Installation location			Inside contr	rol panel].		
Overvoltage category *3			ll or le	ISS			*5		
Pollution degree *4			2 or le	SS			1		
Cooling method			Self-coo	oling			1		
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more. If impossible, connect the ground cable to the control panel.								
Although GT2507T-W is conditions and environm					ration is not guarant	eed in all]		
For the status of conform BV/DNV/LR/NK/RINA]), p			A, ATEX, UL/cUL, C	lass I Division 2, KC,	KCs, and maritime	certifications [ABS/]		

1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.

- Do not use or store the GOT under a pressure higher than the 2 atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within 3 with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
- Communication units and options usable with the rugged 5 model can be used in the environment described in the general specifications of the rugged model. However, when a protective cover for oil is mounted on the GOT, the operating ambient temperature must be -20°C to 50°C. For using peripheral devices to be connected to the GOT, please refer to the relevant product manual.

Performance specifications

		Specifications
	Item	GT2507T-WTSD
	Display device	TFT color LCD
	Screen size	7" widescreen
	Resolution	WVGA: 800 × 480 dots
	Display size	152.40(6.00) (W) × 91.44(3.60) (H) mm (inch)
Display section	Number of displayed	16-dot standard font: 50 characters x 30 lines (two-byte characters)
*1 *2	characters	12-dot standard font: 66 characters × 40 lines (two-byte characters)
	Display color	65536 colors
	Brightness adjustment	32 levels
	Backlight	LED (not replaceable)
	Backlight life *4	Approx. 50000 h (operating ambient temperature: 25°C, display intensity: 50%)
	Туре	Analog resistive film
Touch panel	Key size	Minimum 2 x 2 dots '7 (per key)
*3 *9	Simultaneous press	Not available "5 (Only 1 point can be touched.)
	Life	1 million touches or more (operating force: 0.98 N or less)
Panel color		Silver
	User memory capacity	Memory for storage (ROM) *10: 32 MB
User memory		Memory for operation (RAM): 128 MB
	Life (number of write times)	100000 times
Built-in clock pr	ecision	±90 seconds/month (ambient temperature: 25 °C)
		GT11-50BAT lithium battery
Battery	Data to be backed up	SRAM data, clock data, system status log data
	Life	Approx. 5 years (ambient temperature: 25 °C)
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)
	Ethernet	2 channels Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X
	USB (host)	1 channel (rear face)
	035 (1031)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A
	USB (device)	1 channel (rear face)
Built-in interface	USB (device)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B
	SD memory card *10	1 channel, SDHC compliant (maximum 32 GB)
	Wireless LAN communication unit interface	For installing a wireless LAN communication unit
	Sound output interface	1 channel, WAV format (16 bits, 8.000 kHz/16.000 kHz, monoral) applicable plug: 0 3.5 stereo mini-plug (3-prong)
Buzzer output		Single tone (tone and tone length adjustable)
POWER LED		2 colors (blue and orange)
UV cutoff		Front: Approximately 95% (370 nm)
Protective struct	ture *6	Front: IP66F *8, IP67F *8 Inside control panel: IP2X
Safety standard (as of June 2023		CE, UKCA, UL, cUL, KC
External dimens	ions	214(8.43) (W) × 158(6.22) (H) × 55(2.17) (D) mm(inch)
Panel cut dimer	isions	197(7.76) (W) × 141(5.55) (H) mm(inch)
Weight (excludir	ng a fitting)	1.2(2.6) kg(lb)
Compatible soft		GT Works3 Version 1.270G or later

As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the *1 appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

Flickering may occur due to vibration, shock, or the display colors *2

*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.

Material: polyacetal resin
 Tip radius: 0.8 mm or more

*/ To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

*5 If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not touch two points or more simultaneously on the touch panel.

- Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or *6 soaked in oil mist.
- *7 The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended.
- Key size: 16 x 16 dots or larger Distance between keys: 16 dots or more The suffix "F" of IP66F and IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920. *8
- *9 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*10 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

Power supply specifications

	Item	Specifications				
	nem	GT2507T-WTSD				
Power su	pply voltage	24 V DC (+25%, -20%)				
	Under the maximum load	17 W or less				
Power consumption	Main unit	11 W				
Consumption	Main unit (backlight OFF)	7 W				
Inrush cu	rrent	59 A or less (2 ms, ambient temperature: 25 $^\circ$ C, under the maximum load)				
Permissit failure tim	e instantaneous power	5 ms or less				
Noise imr	nunity	Noise voltage: 500 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz				
Withstand	d voltage	350 V AC for 1 minute across power terminals and earth				
Insulation	resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester				

GT23 model

General specifications

Item	Specifications ^{*1}							
Operating ambient temperature *1		0 °C to 55 °C ^{*6}						
Storage ambient temperature			–20 °C to	60 °C				
Operating ambient humidity		10	0% RH to 90% RH, r	non-condensing *2				
Storage ambient humidity		10	0% RH to 90% RH, r	non-condensing *2				
			Frequency	Acceleration	Half amplitude	Sweep count		
	Compliant with	Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each		
Vibration resistance	JIS B 3502 and	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction		
	IEC 61131-2 *7	Under continuous	5 to 8.4 Hz	-	1.75 mm			
		vibration	8.4 to 150 Hz	4.9 m/s ²	-] _		
Shock resistance	Compliar	it with JIS B 3502 and	IEC 61131-2 (147	m/s² (15G), 3 times	in each X, Y, or Z di	irection)		
Operating atmosphere	No greasy fumes, o	corrosive gas, flammal	ble gas, excessive c	onductive dust, and	l direct sunlight (as v	well as at storage)		
Operating altitude *3		·	2000 m c	or less				
Installation location			Inside contr	ol panel				
Overvoltage category *4		·	ll or le	ISS				
Pollution degree *5			2 or le	ISS				
Cooling method	Self-cooling							
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more. If impossible, connect the ground cable to the control panel. +7							
Operate and store the GC		,	5					

For the status of conforming to various standards and laws (CE, UKCA, ATEX, UL/cUL, Class I Division 2, KC, KCs, and maritime certifications [ABS/ BV/DNV/LR/NK/RINA]), please contact your local sales office.

'1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.

- If the ambient temperature exceeds 40 °C, the absolute 2 humidity must not exceed 90% RH at 40 °C
- '3 Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
- When a protective cover for oil is mounted on the GOT, the 6 maximum operating ambient temperature must be 5°C lower than the one described in the general specifications.
- The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in JIS B 3502:2021 and IEC 61131-2 ED.3. The product was tested by using the former definition, 1 G = 9.8 m/s^2

Performance specifications

		Specifi	cations					
	Item	GT2310-VTBA GT2310-VTBD	GT2308-VTBA GT2308-VTBD					
Display device		TFT col	or LCD					
	Screen size	10.4"	8.4"					
	Resolution	VGA: 640	× 480 dots					
	Display size	211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)	170.9(6.73) (W) × 128.2(5.05) (H) mm(inch)					
Display section *1 *2	Number of displayed characters	16-dot standard font: 40 characte 12-dot standard font: 53 characte						
	Display color	65536						
	Brightness adjustment	16 le						
	Backlight	LED (not re						
	Backlight life *4	Approx. 50000 h (operating ambient ten	nperature: 25 °C, display intensity: 50%)					
	Туре	Analog re:						
Touch panel	Key size	Minimum 2 × 2						
*3 *9	Simultaneous press	Not available *5 (Only 1	point can be touched.)					
	Life	1 million touches or more (op	erating force: 0.98 N or less)					
Panel color		Bla						
User memory	User memory capacity	Memory for storage (ROM) ^{*10} : 9 MB Memory for operation (RAM): 9 MB						
,	Life (number of write times)	10000	100000 times					
Built-in clock pre	cision	±90 seconds/month (ambient temperature: 25 °C)						
		GT11-50BAT lithium battery (option)						
Battery	Data to be backed up	SRAM data, clock data,	system status log data					
	Life	Approx. 5 years (ambie	ent temperature: 25 °C)					
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19	200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)					
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 192	00, 9600, 4800 bps Connector shape: D-sub 9-pin (female)					
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T	Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X					
Built-in interface	LISB (host)	1 channel	(rear face)					
Danc in michaele	000 (1031)	USB version: USB 1.1 (Full-Speed 1	2 Mbps), Connector shape: USB-A					
	USB (device)	1 channel						
	USD (device)	USB version: USB 1.1 (Full-Speed 12	Mbps), Connector shape: USB Mini-B					
	SD memory card *10	1 channel, SDHC comp	oliant (maximum 32 GB)					
Buzzer output		Single tone (tone	length adjustable)					
POWER LED		2 colors (blue	and orange)					
Protective structu	ire *6	Front: IP67F *8 Insid	e control panel: IP2X					
Safety standards, radio laws (as of June 2023)		CE, UKCA,	JL, cUL, KC					
External dimensions 303(11.93) (W) × 218(8.58) (H) × 56(2.20) (D) mm(inch)			241(9.49) (W) × 194(7.64) (H) × 56(2.20) (D) mm(inch)					
Panel cut dimens	ions	289(11.38) (W) × 200(7.87) (H) mm(inch)	227(8.94) (W) × 176(6.93) (H) mm(inch)					
Weight (excluding) a fitting)	1.9(4.2) kg(lb)	1.5(3.3) kg(lb)					
Compatible softw	vare package	GT Works3 Versio	on 1.270G or later					

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

*2 Flickering may occur due to vibration, shock, or the display colors.

*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.

 Material: polyacetal resin
 Tip radius: 0.8 mm or more *4

- *8
- *9 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*10 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

^{*5} If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not touch two points or more simultaneously on the touch panel.

^{*6} Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

^{*7} The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. • Key size: 16 × 16 dots or larger • Distance between keys: 16 dots or more

The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

Power supply specifications

Item			Specifi	cations	
	nem	GT2310-VTBA	GT2308-VTBA	GT2310-VTBD	GT2308-VTBD
Power su	pply voltage	100 V AC to 240 V	/ AC (+10%, -15%)	24 V DC (+2	5%, -20%)
Power su	pply frequency	50 Hz/60	Hz (±5%)	-	-
0	Under the maximum load	18 W or less	11 W or less	16 W or less	11 W or less
Power consumption	Main unit	15 W	9 W	13 W	8 W
Consumption	Main unit (backlight OFF)	8 W	6 W	7 W	6 W
Inrush cur	rrent		or less 5 °C, under the maximum load)	40 A c (2 ms, ambient temperature: 25	
Permissib failure tim	le instantaneous power e	20 ms or less (100 V AC or more)		10 ms (or less
Noise imr	nunity	Noise voltage: 1500 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz		Noise voltage: 500 Vp measured by a noise simulator with noise	
Withstand	i voltage	1500 V AC for 1 minute acro	ss power terminals and earth	350 V AC for 1 minute across power terminals and earth	
Insulation	resistance		500 V DC across power terminals and earth, 1	0 MΩ or more by an insulation resistance tester	



GT21 wide model/GT21 model

General specifications

Item	Specifications								
Operating ambient temperature *1	0 °C to 55 °C ^{*7} (horizontal installation), 0 °C to 50 °C (vertical installation)								
Storage ambient temperature			–20 °C to	60 °C					
Operating ambient humidity		10	1% RH to 90% RH, I	non-condensing *2					
Storage ambient humidity		10	1% RH to 90% RH, I	non-condensing *2					
			Frequency	Acceleration	Half amplitude	Sweep count			
	Compliant with	Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each			
Vibration resistance	JIS B 3502 and	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction			
	IEC 61131-2 *8	Under continuous vibration	5 to 8.4 Hz	-	1.75 mm				
			8.4 to 150 Hz	4.9 m/s ²	-	_			
Shock resistance	Complian	t with JIS B 3502 and	I IEC 61131-2 (147	m/s² (15G), 3 times	in each X, Y, or Z d	irection)			
Operating atmosphere	No greasy fumes, o	orrosive gas, flammal	ole gas, excessive c	onductive dust, and	d direct sunlight (as v	well as at storage)			
Operating altitude *3			2000 m c	or less					
Installation location			Inside contr	ol panel					
Overvoltage category *4			ll or le	ISS					
Pollution degree *5			2 or le	ISS					
Cooling method	Self-cooling								
Grounding	GT2107-W: Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more. If impossible, connect the ground cable to the control panel. GT2104, GT2103: Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 0.14 to 1.5 mm ² (single wire), 0.14 to 1.0 mm ² (stranded wire), or 0.25 to 0.5 mm ² (rod terminal with an insulation sleeve). If impossible, connect the ground cable to the control panel. ⁶								

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations. For the status of conforming to various standards and laws (CE, UKCA, ATEX, UL/cUL, Class I Division 2, KC, KCs, and maritime certifications [ABS/ BV/DNV/LR/NK/RINA]), please contact your local sales office

Performance specifications

- Includes the temperature inside the enclosure of the control panel to which the GOT is installed.
- 2 If the ambient temperature exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C
- *3 Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
- 5 V DC type does not require grounding. When a protective cover for oil is mounted on the GOT, the
- maximum operating ambient temperature must be 5°C lower than the one described in the general specifications.
- The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in JIS B 3502:2021 and IEC 61131-2 ED.3. The product was tested by using the former definition, $1 \text{ G} = 9.8 \text{ m/s}^2$.

		opeone							
	Item	GT21 wid	e model						
		GT2107-WTBD	GT2107-WTSD						
	Display device	TFT colo	r LCD						
	Screen size	7" widescreen							
	Resolution	WVGA: 800 >	× 480 dots						
	Display size	152.40(6.00) (W) × 91.44(3.60) (H) mm (inch)							
Display section *1 *2	Number of displayed characters	16-dot standard font: 50 characters 12-dot standard font: 66 characters							
	Display color	65536 c	colors						
	Brightness adjustment	32 lev	rels						
	Backlight	LED (not rep	placeable)						
	Backlight life *4	Approx. 50000 h (operating ambient temp	perature: 25 °C, display intensity: 50%)						
	Туре	Analog resi	stive film						
Touch panel	Key size	Minimum 2 × 2 d	ots *9 (per key)						
*3 *11	Simultaneous press	Not available *5 (Only 1 p	point can be touched.)						
	Life	1 million touches or more (ope	erating force: 0.98 N or less)						
Panel color		Black	Silver *15						
Lloor momon	User memory capacity	Memory for storage (ROM) *12: 15 MB							
User memory	Life (number of write times)	100000	times						
Built-in clock pre	ecision	±45 seconds/month (ambient temperature: 25 °C)							
		GT11-50BAT lithium battery							
Battery	Data to be backed up	SRAM data, clock data							
	Life	Approx. 5 years (ambien	nt temperature: 25 °C)						
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 192	00, 9600, 4800 bps Connector shape: D-sub 9-pin (male)						
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 1920	0, 9600, 4800 bps Connector shape: D-sub 9-pin (female)						
	RS-422	-							
	Ethernet	1 channel Data transfer metho Connector shape: RJ45 (mod							
Built-in interface	USB (host)	1 channel (r	rear face)						
	030 (1031)	USB version: USB 1.1 (Full-Speed 12	2 Mbps), Connector shape: USB-A						
	USB (device)	1 channel (fi	ront face)						
	COD (device)	USB version: USB 1.1 (Full-Speed 12 M	/lbps), Connector shape: USB Mini-B						
	SD memory card *12	1 channel, SDHC compli	iant (maximum 32 GB)						
Buzzer output		Single tone (tone le							
Protective struct	ture *7	Front: IP67F *10 *14 Insid	de control panel: IP2X						
Safety standards (as of June 2023		CE, UKCA, U	L, cUL, KC						
External dimens	ions	189(7.44) (W) × 142(5.59) (H	H) × 48(1.89) (D) mm(inch)						
Panel cut dimen	isions	180.5(7.11) (W) × 133.	5(5.26) (H) mm(inch)						
Weight (excludin	ng a fitting)	0.7(1.54)) kg(lb)						
On and the south	ware package	GT Works3 Version	- 1.0700						

As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged. Flickering may occur due to vibration, shock, or the display colors.

*2

- To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight. If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not touch two points or more simultaneously on the touch panel. ⁺5
- *6 The SD memory card unit (GT21-03SDCD), sold separately, needs to be mounted.
- Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or *7 soaked in oil mist
- *8 The dimension when the SD memory card unit (GT21-03SDCD) is mounted is 113(4.45) (W) × 74(2.91) (H) × 32(1.26) (D) mm(inch). *g
- The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended. Key size: 16 × 16 dots or larger Distance between keys: 16 dots or more (GT2107-WTED, GT2107-WTED)
- *10 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.
- *11 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

[•]з When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications,
• Material: polyacetal resin • Tip radius: 0.8 mm or more

^{*4}

Power supply specifications

				Specifi	cations				
	Item	GT21 wide model							
	nem	GT2107-WTBD GT2107-WTSD	GT2104-RTBD	GT2104-RTBD GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2		GT2103-PMBDS2	GT2103-PMBLS		
Power su	pply voltage		24 V DC (+10%, -15%)						
Power su	pply frequency			-	_				
Power	Under the maximum load	11.3 W or less	4.4 W or less	2.6 W or less	1.9 W or less	2.2 W or less	1.1 W or less		
consumption	Main unit (backlight OFF)	7.0 W	2.9 W	2.0 W	1.3 W	1.6 W	0.7 W		
Inrush cu	rrent	35 A or less (3 ms, ambient temperature: 25 °C, under the maximum load)	18 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)	(1 ms, ambient	-				
Permissib failure tim	e instantaneous power			5 ms or less			_		
Noise imr	nunity	Noise voltage: 1000 Vp-p, noise width: 1 μ s, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz							
Withstand	d voltage		500 V AC for	1 minute across power termin	als and earth		-		
Insulation	resistance		500 V DC across power termina	als and earth, 10 M Ω or more b	y an insulation resistance teste	91'	_		

		Specifications								
	Item			GT21 model						
		GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS				
	Dioplay, daviao	TFT color LCD		TFT monoc						
	Display device Screen size	4.3"								
	Resolution	4.5 480 × 272 dots	3.8" 320 × 128 dots							
	Display size	95.0(3.74) (W) × 53.8(2.12) (H) mm(inch)								
		16-dot standard font: 30 characters		89.0(3.50) (W) × 35.6(1.40) (H) mm(inch)						
Display section	Number of displayed	× 17 lines (two-byte characters)		16-dot standard font: 20 characte	ers × 8 lines (two-byte characters)					
*1 *2	characters	12-dot standard font: 40 characters			rs × 10 lines (two-byte characters)					
		× 22 lines (two-byte characters)								
	Display color	65536 colors			nite) 32 shade grayscale					
	Brightness adjustment			32 levels						
	Backlight	LED (not replaceable)		5-color LED (white, green, pink						
	Backlight life *4		Approx. 50000 h (ope	erating ambient temperature: 25 °C,	display intensity: 50%)					
	Туре			Analog resistive film						
Touch panel	Key size			Minimum 2 × 2 dots *9 (per key)						
*3 *11	Simultaneous press			available *5 (Only 1 point can be touc						
	Life		1 million to	ouches or more (operating force: 0.9	8 N or less)					
Panel color				Black						
User memory	User memory capacity	Memory for storage (ROM) *12: 9 MB		Memory for storag	e (ROM) *12: 3 MB					
	Life (number of write times)			100000 times						
Built-in clock pre	cision	±45 seconds/month								
		(ambient temperature: 25 °C)								
Battery	Data to be backed up	GT11-50BAT lithium battery SRAM data, clock data								
	· · · ·	Approx. 5 years	<u> </u>							
	Life	(ambient temperature: 25 °C)								
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	_	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: MINI-DIN 6-pin (female)	2 channels Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block, MINI-DIN 6-pin (female)	_				
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 5-pin connector terminal block	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	-	_				
Built-in interface	RS-422			_		1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block *13				
	Ethernet	1 channel Data transfer meth Connector shape: RJ45 (mo			-					
	USB (device)			1 channel (rear face)						
			USB version: USB 1	1.1 (Full-Speed 12 Mbps), Connecto	r shape: USB Mini-B					
	SD memory card *12	1 channel, SDHC compliant (maximum 32 GB)	nnel, SDHC compliant (maximum 32	GB) *6	-					
Buzzer output				Single tone (tone length adjustable)						
Protective structu			Fro	ont: IP67F*10 Inside control panel: IF	P2X					
Safety standards (as of June 2023				CE, UKCA, UL, cUL, KC						
External dimension	ons	$\begin{array}{l} 128(5.04) \ (\text{W}) \times 102(4.02) \ (\text{H}) \times \\ 40(1.57) \ (\text{D}) \ \text{mm(inch)} \end{array}$	113(4.45) (W) × 74(2.91) (H) × 32(1.26) (D) mm(inch)	113(4.45) (W) × 74(2.91) (H	l) × 27(1.06) (D) mm(inch) *8	113(4.45) (W) × 74(2.91) (H) × 27(1.06) (D) mm(inch)				
Panel cut dimens	sions	118(4.65) (W) × 92(3.62) (H) mm(inch)		105(4.13) (W) × 66	(2.60) (H) mm(inch)					
Weight (excluding		0.4(0.88) kg(lb)		0.2(0.44) kg(lb)		0.18(0.40) kg(lb)				
Compatible softv	vare package			GT Works3 Version 1.270G or later						

12 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.
13 Use a 3 m or shorter cable.
14 To conform to IP67F, close the USB environmental protection cover by pushing the USB mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)
15 The lower part of the panel including the USB environmental protection cover is black.

GS21 model

General specifications

Item	Specifications							
Operating ambient temperature *1	0 °C to 50 °C							
Storage ambient temperature			–20 °C to	60 °C				
Operating ambient humidity		10	0% RH to 90% RH, r	non-condensing *2				
Storage ambient humidity		10	0% RH to 90% RH, r	non-condensing *2				
			Frequency	Acceleration	Half amplitude	Sweep count		
		Under intermittent	5 to 8.4 Hz	-	3.5 mm	10 times in each		
Vibration resistance	Compliant with IEC 61131-2 *6	vibration	8.4 to 150 Hz	9.8 m/s ²	-	X, Y, or Z direction		
		Under continuous vibration	5 to 8.4 Hz	-	1.75 mm	_		
			8.4 to 150 Hz	4.9 m/s ²	-			
Shock resistance	(Compliant with IEC 61	131-2 (147 m/s ² (15	5G), 3 times in each	X, Y, or Z direction)			
Operating atmosphere	No greasy fumes, o	corrosive gas, flammat	ble gas, excessive c	onductive dust, and	d direct sunlight (as v	well as at storage)		
Operating altitude *3			2000 m c	or less				
Installation location			Inside contr	ol panel				
Overvoltage category *4			ll or le	ISS				
Pollution degree *5			2 or le	ISS				
Cooling method		Self-cooling						
Grounding		vith a ground resistance a of 2 mm ² or more.						
Operate and store the GC		y ,	5					

For the status of conforming to various standards and laws (CE, UKCA, ATEX, UL/cUL, Class I Division 2, KC, KCa, and maritime certifications [ABS/ BV/DNV/LR/NK/RINA]), please contact your local sales office. 1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.

- *2 If the ambient temperature exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C.
- *3 Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.
- ⁴⁴ This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.
- This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.
- 5 The definition of 1 G has been changed from 9.8 m/s² to 10 m/s² in IEC 61131-2 ED.3. The product was tested by using the former definition, 1 G = 9.8 m/s².

Performance specifications

Item		Specifica	ations				
	nem	GS2110-WTBD-N	GS2107-WTBD-N				
	Display device	TFT color	LCD				
	Screen size	10" widescreen	7" widescreen				
	Resolution	WVGA: 800 ×	480 dots				
Display section	Display size	W222(8.74) × H132.5(5.22) [mm] (inch)	W154(6.06) × H85.9(3.38) [mm] (inch)				
*1 *2	Number of displayed characters	16-dot standard font: 50 characters 12-dot standard font: 66 characters					
	Display color	65536 c	olors				
	Brightness adjustment	32 levi	els				
	Backlight *4	LED (not rep	laceable)				
	Туре	Analog resis	stive film				
Touch panel	Key size	Minimum 2 × 2 do					
*3 *9	Simultaneous press	Not available *5 (Only 1 point can be touched.)					
	Life	1 million touches or more (operating force: 0.98 N or less)					
Panel color		Black					
	User memory capacity	Memory for storage (ROM) *10: 15 MB					
User memory	Life (number of write times)	100000 times					
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)					
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 1920 Terminating resistor: 330 Ω, 110 Ω, OPEN (Select					
Built-in interface	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T	Connector shape: RJ45 (modular jack) AUTO MDI/MDI-X				
	USB (device)	1 channel (re	ear face)				
	USB (device)	USB version: USB 1.1 (Full-Speed 12 M	bps), Connector shape: USB Mini-B				
	SD memory card *10	1 channel, SDHC complia	ant (maximum 32 GB)				
Buzzer output		Single tone (tone let	ngth adjustable)				
Protective struct	ture *6	Front: IPE	35F *8				
Safety standards (as of June 2023		CE, UKCA, UL	., cUL, KC				
External dimens	ions	272(10.71) (W) × 214(8.43) (H) × 56(2.21) (D) mm(inch)	206(8.11) (W) × 155(6.11) (H) × 50(1.97) (D) mm(inch)				
Panel cut dimen	sions	258(10.16) (W) × 200(7.88) (H) mm(inch)	191(7.52) (W) × 137(5.40) (H) mm(inch)				
Weight (excludin	ng a fitting)	1.3(2.9) kg(lb)	0.9(2.0) kg(lb)				
Compatible soft	ware package	GT Works3 Version	1.270G or later				

*1 As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

*2 Flickering may occur due to vibration, shock, or the display colors

*3 When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.

Material: polyacetal resin
Tip radius: 0.8 mm or more

*4 To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

*5 If you touch two points or more simultaneously on the touch panel, a switch in an unintended location may operate. Do not touch two points or more simultaneously on the touch panel,

*6 Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

*7 The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended.

Key size: 16 × 16 dots or larger
Distance between keys: 16 dots or more

Key size: 15 × 15 dots or larger
 Ustance between keys: 15 dots or more
 The suffix "F" of IP65F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*10 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

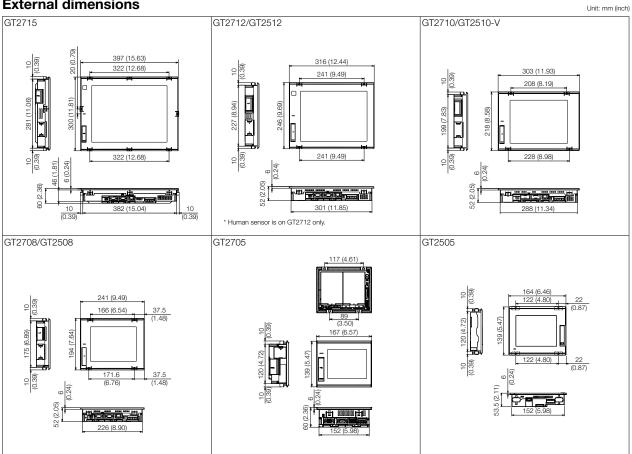
Power supply specifications

	Item	Specifications						
	nem	GS2110-WTBD-N	GS2107-WTBD-N					
Power su	pply voltage	24 V DC (+10%, -15%), ripple voltage 200 mV or less						
Power	Under the maximum load	7.6 W (317 mA/24 V) or less	6.5 W (271 mA/24 V) or less					
consumption	Main unit (backlight OFF)	3.8 W (158 mA/24 V) or less	3.8 W (158 mA/24 V) or less					
Inrush cu	rrent	17 A or less (6 ms, ambient temperature 25°C, under the maximum load)						
Permissib failure tim	le instantaneous power e	Withi	n 5 ms					
Noise imr	nunity	Conforms to IEC61000-4-4, 2 kV (power supply line)						
Withstand	d voltage	tage 350 V AC for 1 minute across power terminals and earth						
Insulation	resistance	500 V DC across power terminals and earth, 1	0 MΩ or more by an insulation resistance tester					

GT27 model/GT25 model

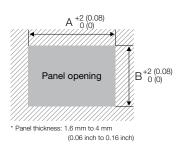
* For the external dimensions and panel cut dimensions of GT25 wide models, GT25 handy GOT, and GT25 rugged model, please refer to pages 158 and 159.

External dimensions



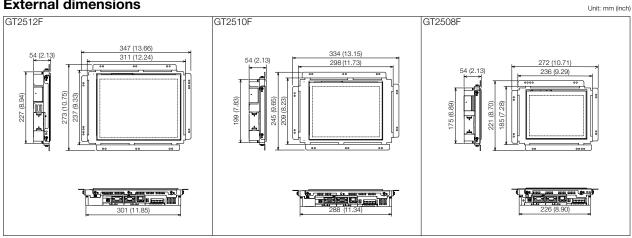
Panel cut dimensions

Panel cu	Panel cut dimensions								
Screen size	Model	А	В	Remarks					
15"	GT2715	383.5 (15.10)	282.5 (11.12)	Same dimensions as GT1695, GT1595.					
12.1"	GT2712 GT2512	302 (11.89)	228 (8.98)	Same dimensions as GT1685, GT1585, A985GOT.					
10.4"	GT2710 GT2510-V	289 (11.38)	200 (7.87)	Same dimensions as GT167□, GT157□, GT1275, A97□GOT.					
8.4"	GT2708 GT2508	227 (8.94)	176 (6.93)	Same dimensions as GT166□, GT156□, GT1265.					
5.7"	GT2705 GT2505	153 (6.02)	121 (4.76)	Same dimensions as GT1655, GT155□, GT145□, GT115□, GT105□, F940GOT.					



GT25 open frame model

External dimensions



* Install the fittings on the top and bottom, or the right and left of the GOT.

Panel cut dimensions/Measurements based on the screen center Unit: mm (inch)

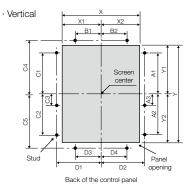
Screen size	Model	Panel cutting dimensions		Measurements based on the screen center			
Screen Size	INIOUEI	Х	Y	X1	X2	Y1	Y2
12.1"	GT2512F	214(8.43) (+2(0.08), 0(0))	269(10.59) (+2(0.08), 0(0))	103(4.06) (+2(0.08), 0(0))	(111(4.37))	134.5(5.30) (+1(0.04), 0(0))	(134.5(5.30))
10.4"	GT2510F	187(7.36) (+2(0.08), 0(0))	234(9.21) (+2(0.08), 0(0))	89.5(3.52) (+1(0.04), 0(0))	(97.5(3.84))	117(4.61) (+1(0.04), 0(0))	(117(4.61))
8.4"	GT2508F	158(6.22) (+2(0.08), 0(0))	194(7.64) (+2(0.08), 0(0))	75.25(2.96) (+1(0.04), 0(0))	(82.75(3.26))	97.5(3.84) (+1(0.04), 0(0))	(96.5(3.80))

Screen size	Model	Distance between studs *						
Screen Size		A1	A2	A3	B1	B2		
12.1"	GT2512F	98(3.86)± 0.15(0.01)	113(4.45)± 0.15(0.01)	7.5(0.30)± 0.15(0.01)	75.5(2.97)± 0.15(0.01)	79.5(3.13)± 0.15(0.01)		
10.4"	GT2510F	105.5(4.15)± 0.15(0.01)	105.5(4.15)± 0.15(0.01)	O(O)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)		
8.4"	GT2508F	64.5(2.54)± 0.15(0.01)	74.5(2.93)± 0.15(0.01)	_	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)		

Screen size	Model	Distance between studs *						
Screen size		C1	C2	C3	C4	C5		
12.1"	GT2512F	98(3.86)± 0.15(0.01)	113(4.45)± 0.15(0.01)	7.5(0.30)± 0.15(0.01)	160(6.30)± 0.15(0.01)	175(6.89)± 0.15(0.01)		
10.4"	GT2510F	105.5(4.15)± 0.15(0.01)	105.5(4.15)± 0.15(0.01)	O(0)	161(6.34)± 0.15(0.01)	161(6.34)± 0.15(0.01)		
8.4"	GT2508F	64.5(2.54)± 0.15(0.01)	74.5(2.93)± 0.15(0.01)	_	126(4.96)± 0.15(0.01)	134(5.28)± 0.15(0.01)		

Screen size	Model	Distance between studs *						
Screen Size	wouer	D1	D2	D3	D4			
12.1"	GT2512F	128.5(5.06)± 0.15(0.01)	132.5(5.22)± 0.15(0.01)	75.5(2.97)± 0.15(0.01)	79.5(3.13)± 0.15(0.01)			
10.4"	GT2510F	114.5(4.51)± 0.15(0.01)	118.5(4.67)± 0.15(0.01)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)			
8.4"	GT2508F	104.5(4.11)± 0.15(0.01)	104.5(4.11)± 0.15(0.01)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)			

 Horizontal A3 02 Screen Ş 8 B2 center 8 ž 5 5 Stud C3 C2 Panel opening Back of the control panel

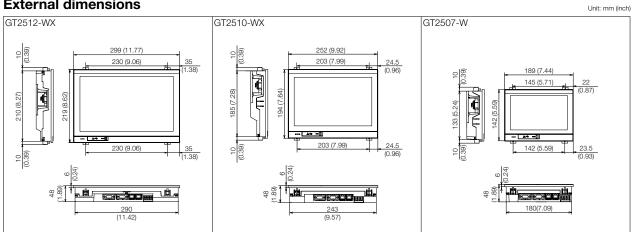


* Panel thickness: 1.5 mm to 4 mm (0.06 inch to 0.16 inch)

* To mount the GOT on the control panel, studs are necessary. Align the studs with the installation holes of the fittings, and install the studs. The fittings must be installed on the top and bottom, or the right and left of the GOT. For GT2512F, you are recommended to install the fittings on the long sides of the GOT.

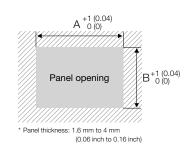
GT25 wide model

External dimensions



Panel cut dimensions

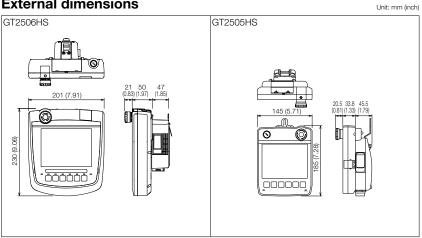
Panel cu	t dimens	sions		Unit: mm (inch)
Screen size	Model	А	В	Remarks
12.1" widescreen	GT2512-WX	290.5 (11.44)	210.5 (8.29)	-
10.1" widescreen	GT2510-WX	243.5 (9.59)	185.5 (7.30)	-
7" widescreen	GT2507-W	180.5 (7.11)	133.5 (5.26)	-



• Specifications

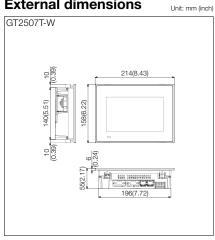
GT25 handy GOT

External dimensions



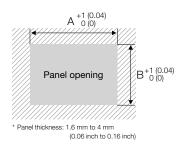
GT25 rugged model

External dimensions



Panel cut dimensions

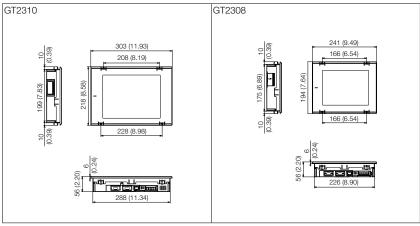
Panel cu	it dimens	sions		Unit: mm (inch)
Screen size	Model	А	В	Remarks
7" widescreen	GT2507T-W	197 (7.76)	141 (5.55)	-



Unit: mm (inch)

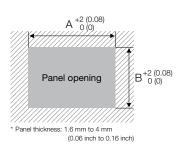
GT23 model

External dimensions



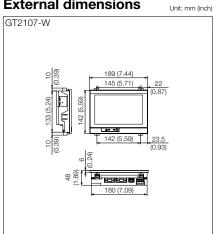
Panel cut dimensions

Panel cu	it dimens	sions		Unit: mm (inch)
Screen size	Model	А	В	Remarks
10.4"	GT2310	289 (11.38)	200 (7.87)	Same dimensions as GT167□, GT157□, GT1275, A97□GOT.
8.4"	GT2308	227 (8.94)	176 (6.93)	Same dimensions as GT166□, GT156□, GT1265.



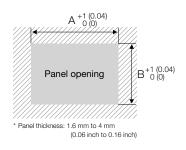
GT21 wide model

External dimensions



Panel cut dimensions

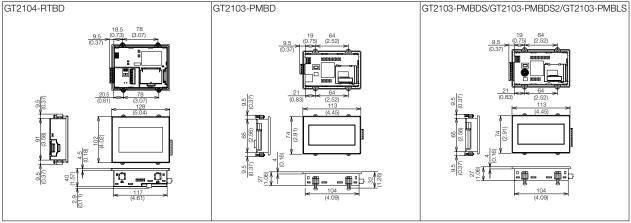
Panel cu	it dimens	sions		Unit: mm (inch)
Screen size	Model	А	В	Remarks
7" widescreen	GT2107-W	180.5 (7.11)	133.5 (5.26)	-



Unit: mm (inch)

GT21 model

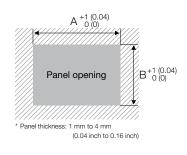
External dimensions



Unit: mm (inch)

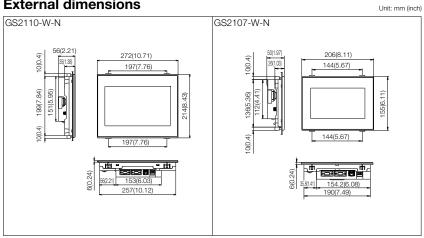
Panel cut dimensions

Screen size	Model	А	В	Remarks
4.3"	GT2104	118 (4.65)	92 (3.62)	_
3.8"	GT2103	105 (4.13)	66 (2.60)	Same dimensions as GT1020.



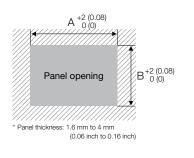
GS21 model

External dimensions



Panel cut dimensions

Screen size	Model	А	В	Remarks
10" widescreen	GS2110-W-N	258 (10.16)	200 (7.88)	-
7" widescreen	GS2107-W-N	191 (7.52)	137 (5.40)	_



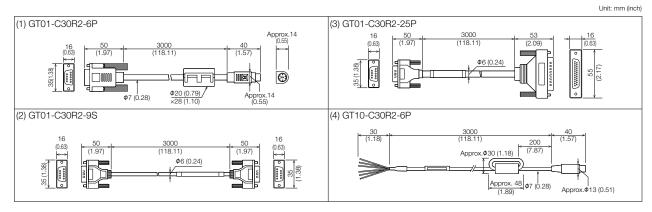
Unit: mm (inch)

Communication cable

External dimensions

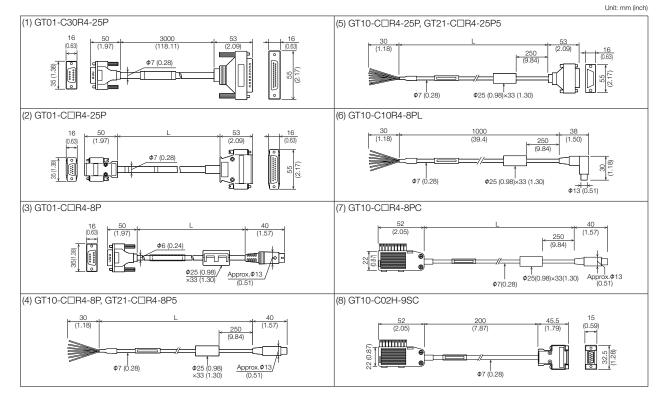
RS-232 connection cable connector

Cable model	Cable length (m(ft.))	External dimensions
GT01-C30R2-6P	3(10)	(1)
GT01-C30R2-9S	3(10)	(2)
GT01-C30R2-25P	3(10)	(3)
GT10-C30R2-6P	3(10)	(4)

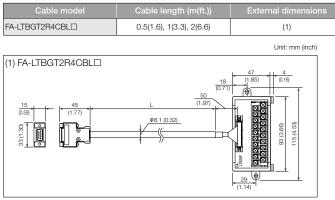


RS-422 connection cable connector

Cable length (m(ft.))	External dimensions		Cable model	Cable length (m(ft.))	External dimensions
3(10)	(1)		GT21-C□R4-8P5	1(3), 3(10), 10(33), 20(66), 30(98)	(4)
10(33), 20(66), 30(98)	(2)		GT21-C□R4-25P5	3(10), 10(33), 20(66), 30(98)	(5)
1(3), 3(10), 10(33), 20(66), 30(98)	(3)		GT10-C10R4-8PL	1(3)	(6)
1(3), 3(10), 10(33), 20(66), 30(98)	(4)		GT10-C□R4-8PC	1(3), 3(10), 10(33), 20(66), 30(98)	(7)
3(10), 10(33), 20(66), 30(98)	(5)		GT10-C02H-9SC	0.2(0.7)	(8)
	3(10) 10(33), 20(66), 30(98) 1(3), 3(10), 10(33), 20(66), 30(98) 1(3), 3(10), 10(33), 20(66), 30(98)	3(10) (1) 10(33), 20(66), 30(98) (2) 1(3), 3(10), 10(33), 20(66), 30(98) (3) 1(3), 3(10), 10(33), 20(66), 30(98) (4)	3(10) (1) 10(33), 20(66), 30(98) (2) 1(3), 3(10), 10(33), 20(66), 30(98) (3) 1(3), 3(10), 10(33), 20(66), 30(98) (4)	3(10) (1) GT21-C□R4-8P5 10(33), 20(66), 30(98) (2) GT21-C□R4-25P5 1(3), 3(10), 10(33), 20(66), 30(98) (3) GT10-C10R4-8PL 1(3), 3(10), 10(33), 20(66), 30(98) (4) GT10-C□R4-8PC	3(10) (1) 10(33), 20(66), 30(98) (2) 1(3), 3(10), 10(33), 20(66), 30(98) (3) 1(3), 3(10), 10(33), 20(66), 30(98) (3) 1(3), 3(10), 10(33), 20(66), 30(98) (4)



RS-485 terminal block conversion unit



Connection cable for Handy GOT

Cable model	Cable length (m(ft.))	External dimensions		Cable model	Cabl
GT16H-C□□-42P	3(10), 6(20), 10(33)	(1)		GT11H-CDDD	3(1
GT16H-CDDD-37PE	3(10), 6(20), 10(33)	(2)		GT11H-C15R4-8P	
GT14H-CDDD-42P	3(10), 6(20), 10(33)	(3)		GT11H-C15R4-25P	
GT11H-CDDD-37P	3(10), 6(20), 10(33)	(4)]	GT11H-C15R2-6P	

 Cable model
 Cable length (m(ft.))
 External dimensions

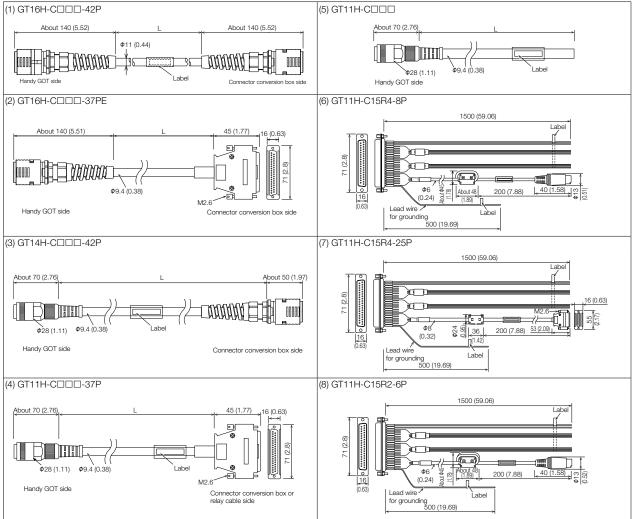
 GT11H-CDDD
 3(10), 6(20), 10(33)
 (5)

 GT11H-C15R4-8P
 15(49)
 (6)

 GT11H-C15R4-25P
 15(49)
 (7)

 GT11H-C15R2-6P
 15(49)
 (8)





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Specifications

Operating environment

MELSOFT GT Works3 Version1 (English Version) operating environment

Item	Description
Personal computer	Personal computer that Windows® runs on.
OS (English, Simplified Chinese, Traditional Chinese, Korean, German, or Italian version) *1 *2 *3 *4 *5 *6 *7	Microsott [®] Windows [®] 11 (Enterprise, Pro, Home, Education) (64bit) Microsott [®] Windows [®] 10 (Enterprise, Pro, Home) (64bit/32bit) Microsott [®] Windows [®] 10 (IoT Enterprise 2016 LTSB) (64 bit) (English OPK, or English OPK and a language pack for localization)
CPU	Windows® 11: 64 bit-compatible processor with dual-core or more or System on a Chip (SoC) ⁺ 8 Other than Windows® 11: Intel® Core™ 2 Duo Processor 2.0 GHz or more recommended ⁺ 8
Memory	For Windows® 11: 4 GB or more recommended For 64-bit OS other than Windows® 11: 2 GB or more recommended For 32-bit OS other than Windows® 11: 1 GB or more recommended
Display	Resolution XGA (1024 × 768 dots) or higher
Hard disk space	For installation: 5 GB or more recommended For execution: 512 MB or more recommended
Display color	High Color (16 bits) or higher
Other hardware	Use the hardware compatible with the above OS. • For installation: mouse, keyboard, DVD drive • For execution: mouse, keyboard • For printing; printer Use the following hardware when required. • For simulation (only when outputting the buzzer sound): sound card, speaker
Compatible GOT	GOT2000 Series, GOT1000 Series
Applicable software version	GT Works3 Version1.295H or later

*1

For installation, administrator privileges are required. For startup, the standard user or administrator account is required. To use GT Designer3 with another MELSOFT application that runs with administrator privileges, run GT Designer3 with administrator privileges. If you change any setting of the personal computer while GT Designer3 is running, the change will not be applied to GT Designer3. *2

Application start in Windows compatibility mode
Fast user switching
Change your desktop themes (fonts)
Remote desktop
Setting the size of text and illustrations on the screen to any size other than [Small-100%]

Operation is not supported in an environment with text cursor indicator turned on. *3

*4 The touch feature is not supported.

*5 Operation in a virtual environment such as Hyper-V is not supported.

Tablet mode is not supported.

*6 *7 Unified Write Filter is not supported.

*8 The ARM64 and ARM32 are not supported.



GT SoftGOT2000 Version1 (English Version) operating environment

Item	Description
Personal computer	Personal computer that Windows [®] runs on. MELIPC (MI5122-VW, MI3321G-W ¹⁰ , MI3315G-W ¹¹ , MI2012-W, MI2012-W-CL) ¹¹
OS (English, Simplified Chinese, Traditional Chinese, Korean, German, or Italian version) *1 *2 *3 *4	Microsoft® Windows Server® 2019 (Standard) (64bit) *12 *13 *14 Microsoft® Windows Server® 2016 (Standard) (64 bit) *12 *13 Microsoft® Windows® 10 (Enterprise, Pro, Home, Education) (64bit) *8 *12 *13 Microsoft® Windows® 10 (Enterprise, Pro, Home) (64bit/2bit) *12 *13 Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (64 bit) (English OPK, or English OPK and a language pack for localization) *7 *8 *12 *13 Microsoft® Windows® 10 IoT Enterprise 2016 LTSC (64 bit) (English OPK, or English OPK and a language pack for localization) *7 *8 *12 *13
CPU	Windows® 11: 64 bit-compatible processor with dual-core or more or System on a Chip (SoC) ^{*15} Other than Windows® 11: Intel Core™ 2 Duo Processor 2.0 GHz or more recommended ^{*15}
Memory	For Windows® 11: 4 GB or more recommended For 64-bit OS other than Windows® 11: 2 GB or more recommended For 32-bit OS other than Windows® 11: 1 GB or more recommended
Display	Resolution XGA (1024 × 768 dots) or higher
Hard disk space *5	For installation: 5 GB or more recommended For execution: 512 MB or more recommended
Display color	High Color (16 bits) or higher
Hardware	GT27-SGTKEY-U (license key (for USB port))
Other software	The following software is required to create the project data. • GT Designer3 Version1.100E or later '6 '9 The following software is required for interaction with PX Developer. • PX Developer Version1.405 or later '6 The following software is required to connect with GX Simulator. • GX Simulator Version5.00A or later The following software is required to connect with GX Simulator2. • GX Works2 Version1.12N or later The following software is required to connect with GX Simulator3. • GX Works2 Version1.2N or later The following software is required to connect with MX Simulator3. • GX Works2 Version1.72V or later The following software is required to connect with MT Simulator2. • GT Works2 Version1.72V or later The following software is required to connect with MT Simulator2. • GT OPC UA Client
Other hardware	Use the hardware compatible with the above OS. • For installation: mouse, keyboard, DVD drive • For execution: mouse, keyboard • For printing: printer Prepare the following hardware if necessary. • For execution (on) when outputting buzzer sound or others): sound function, speaker

The following functions are not supported. *2

The following functions are not supported. Activating the application with Windows compatibility mode Fast user switching Change your desktop themes (fonts) Remote desktop • Setting the size of text and illustrations on the screen to any size other than [Small-100%] *3

- Setting the size or text and illustrations on the screen to any size onter than (small-100%) Tag and press-and-hold features are supported. As operations such as flicking are not supported, the following operations are unavailable accordingly.
 Touching two touch switches simultaneously.
 Moving an overlap window or twe window by a slide operation. When [Allow press-and-hold of a mouse button to function as a right-click] is selected in the [Environment Setup] dialog of GT SoftGOT2000, the following operations are also unavailable.
 Touching a touch switch [(Delay]; [ON])
 Touching a touch switch (Delay]; [ON])
 Touching the utility call key

- *4 Operation in a virtual environment such as Hyper-V is not supported.
 - When using GT Designer3 or PX Developer besides GT SoftGOT2000, additional free space is required. For the available space required when using GT Designer3, please refer to the GT Works3 operating environment. For the available space required when using monitor tool functions of PX Developer, please refer to the following manual. PX Developer Version Operating Manual (Monitor Tool) When using a user-created application, free space is required separately.
- *6 Use GT Designer3 included in GT Works3 that contains GT SoftGOT2000.
- *7
- The following OSs are not supported. Microsoft® Windows® 10 IoT Enterprise for Retail or Thin Client Microsoft® Windows® 10 IoT Enterprise for Tablets Microsoft® Windows® 10 IoT Enterprise for Small Tablets
- The following lockdown features are not supported.
 Unified Write Filter
 Assigned Access
 USB Filter *8

- Layout Control

*5

- AppLocker
 Shell Launcher
 Text cursor indicator
- *9 To use the Edgecross interaction function, Version1.195D or later is required.
- *10 GT SoftGOT2000 (English version) is preinstalled.
- *11 Microsoft® Windows® 10 IoT Enterprise 2016 LTSB is preinstalled. For the specifications of the MELIPC, refer to the following. • MELIPC MI5000 Series User's Manual (Startup) • MELIPC MI3000 User's Manual • MI2012-W User's Manual
- *12 Disable high-speed startup. If enabled, GT SoftGOT2000 may not operate properly when the personal computer is shut down and then started
- *13 Some digital pens are unusable.
- *14 Only Desktop Experience is available
- *15 ARM64 and ARM32 are not supported.



or the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000/GOT SIMPLE Series	
Supported —: Not supported	t:

n name NEW	For the details of f	unctions, supported control	llers, and connection types,	please refer to the relevant	t manual or Help of the GOT Sup	2000/GOT SIMPLE Ser
NEW	Necessary devices *1	GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged
NEW		•	-	-	-	-
NEW		•	•	-	-	-
		-	-	•	-	
		•	•	•	_	
		-	_	-	-	-
		•	•	-	-	-
		-	-	•	-	•
		-	-	-	•	-
		•	•	-	•	-
		-	-	-	-	-
		-	-	-	-	-
		-	-	•	-	_
		•	•			
		-	-	•	-	•
		•	•	_	•	_
		-	-	-	-	
		•	•	•	•	•
te) 32 shade grayscale		-	-	-	-	-
us press (2 points)		•	-	_	-	-
		●*10 Other than below: 57 MB	-	_	-	-
(ROM)		Other than below: 57 MB GT2705: 32 MB	32 MB	32 MB	32 MB	32 MB
n (RAM)		Other than below: 256 MB *22	80 MB	128 MB	80 MB	128 MB
		GT2705: 80 MB	•	•	•	•
		-	-	-	•	
		•	•	•	GT2505HS supports RS-422 only	•
	(Ethernet communication unit)	2 ports by installing communication unit	• 2 ports by installing communication unit *17	e ports as standard	•	e ports as standard
		•	•	•	•	•
		•	•	•	•	•
erface		•	•	•	•	•
de interface, nication unit interface	Communication units, option units	●*11	● *11 *17	● *11	-	●*11
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
umerical input		•	•	•	•	•
ut		•	•	•	•	•
isplay	(Battery)	•	•	•	•	•
	(SD memory card or USB memory)	•	•	•	•	•
	(SD memory card or USB memory)	•	•	•	•	•
splay	(SD memory card or USB memory)	•	•	•	•	•
r		•	•	•	•	•
y		•	•	•	•	•
	(SD memory card or USB memory, battery)	•	•	•	•	•
n)	(SD memory card or USB memory, battery)	•	•	•	•	•
rd list)		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
		•	•	•	•	•
	(SD memory card or USB memory)	•	•	•	•	•
h		•	•	•	•	•
<u>ן</u>		•	•	•	•	•
n		•	•	•	•	•
n		•	•	•	•	•
n	SD memory card	•	•	•	•	•
n 		•	•	•	•	•
n 		•	•	•	•	•
n	(SD memory card or USB memory, battery)			-		•
n 	(SD memory card or USB memory, battery) (SD memory card or USB memory, battery)	A				•
n 		•			•	•
n 		•	•	•	-	-
h	(SD memory card or USB memory, battery)	•		•	•	•
	(SD memory card or USB memory, battery) (SD memory card or USB memory)	•	•	-	• -	•
Itput printer output rel printer output	(SD memory card or USB memory, battery) (SD memory card or USB memory) (SD memory card or USB memory)	•	• • • • • • • • • • • • • • • • • • • •	•		
Jtput printer output	(SD memory card or USB memory, battery) (SD memory card or USB memory) (SD memory card or USB memory)	• • •	• • •	•	-	•
n				• •	• • •	Image: SD memory card or USB memory) Image: SD memory card or USB memory) Image: SD memory card or USB memory) Image: SD memory card or USB memory)

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• Specifications

Necessary units when using GT27, GT25, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21 wide, GT21, or GS21 models are shown. Parenthesized devices are required depending on conditions of *1 use.

Data is output to the printer that is recognized by the personal computer.

*2 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers. *3

*4 Only the GOTs with SVGA or higher resolution are supported.

Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: utility screen, monitor and data management screens that are displayed form the utility screen (sequence program monitor, etc.), video camera images in the multimedia and video display functions. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.
 Excluding GT2103-PMBLS.
 Tot104-RTBD only.
 Excluding GT2705-VTBD.

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000/GOT SIMPLE Series. •: Supported -: Not su

_							•. au	oported —: Not suppo
ory	Fu	Inction name	Necessary devices *1	GT23	GT21 Wide	GT21	GS21-W-N NEW	GT SoftGOT200
	15"			-	-	-		
	12.1"			-	-	-	-	
	12.1" Wide	NEW		-	-	-	-] /
	10.4"			•	-	-	-] /
ø	10.1" Wide			-	-	-	-	1 /
Screen size	10" Wide			-	-	-	•] /
nsiz	8.4"			•	-	-	-	
ē	7" Wide			-	•	-	•] /
	6.5"			-	-	-	_	1 /
	5.7"			-	-	-	-	1 /
	4.3"			-	-	•	-	1/
	3.8"			-	_	•	_	1/
	WXGA 1280) × 800		-	-	-	-	
	XGA 1024 ×	768		-	-	-	_	1
R	SVGA 800 ×	600		-	-	-	_	Flexible resolution
Resolution	WVGA 800 >	× 480		-	•	-	•	640 to 1920 ×
ġ.	VGA 640 × 4	480		•	-	-	-	480 to 1200
	Other					GT2104-R: 480 × 272		1
	Other			_	_	GT2103-P: 320 × 128		
2	65536 colors	s		•	•	•	•	•
Color	Monochrome (black/white) 32 shade grayscale		-	-	•	-	-
Γοι	uch panel sim	ultaneous press (2 points)		-	-	-	_	-
Hu	uman sensor			-	-	-	-	-
٦				0110	1010	GT2104-R: 9 MB	15 MB	
Z.	Memory for s	storage (ROM)		9 MB	15 MB	GT2103-P: 3 MB	NEW	57 MB
Memory								
Ś	Memory for	operation (RAM)		9 MB	-	-	-	-
	RS-232			•	•	● *20	•	• *12
	RS-422/485			•		★ *20		* *10
	no-422/485			•	•	● *20	NEW	• *12
nte	Ethernet		(Ethernet communication unit)	•	•	*20	•	● *11
Interface			, , , , , , , , , , , , , , , , , , ,					
Ď	USB host			•	•	-	-	● *13
	USB device			•	•	•	•	
	SD memory	card interface		•	•	• *14	•	●*13
	Extension inte	erface, Side interface,	Communication units, option units	_				•*11
	Wireless LAN	communication unit interface	Communication units, option units		-	-		•
	Figure			•	•	•	•	•
	Logo text			•	•	•	•	•
	Outline font			•	•	-	NEW	•
	Touch switch	h		•	•	•	•	•
	Lamp			•	•	•	•	•
	Numerical di	isplay, Numerical input		•	•	•	•	•
	Text display,	Text input		•	•	•	•	•
		, Time display	(Battery)	•	•	•	•	•
	Comment di			•	•	•	•	•
	Parts display		(SD memory card or USB memory)	•	•	● *16	•	•
	Parts moven		(SD memory card or USB memory)	•	•	• *16	•	•
	Historical da		(SD memory card or USB memory)	•	•	• *16	•	•
n			(35 memory card or 035 memory)	-	-			
	Simple alarm System alarr			•	• _	•	•	•
5	Alarm displa		(SD momony card or LICD momony both)			_ ● *16		
in ire/object fi inctions			(SD memory card or USB memory, battery) (SD memory card or USB memory, battery)	•	•		•	•
find	Alarm displa		Go memory card or USB memory, battery)	•	-	-	_	•
÷		ay (record list)		•	•	•	•	•
6	Line graph			•	•	•	•	•
J	Trend graph			•	•	•	•	•
	Bar graph			•	•	•	•	•
I	Statistic bar			•	•	•	•	•
I	Statistic pie			•	•	•	•	•
J	Scatter grap			•	•	•	•	•
I	Historical tre		(SD memory card or USB memory)	•	•	● *16	•	•
I	Graphical me	eter		•	•	•	•	•
I	Level			•	•	•	•	•
I	Panelmeter			•	•	•	•	•
l	Slider			٠	•	•	•	•
I	Document d	lisplay	SD memory card	_	-	-	-	•
	Script parts			•	•	•	•	•
Ē	Logging		(SD memory card or USB memory, battery)	•	•	● *6	•	•
notio	Recipe		(SD memory card or USB memory, battery)	•	•	● *16	•	•
Functions performed on background of	Device data	transfer	<i>v n</i>	•	•	•	•	•
B	Trigger actio			•	•	•	•	•
	Time action		(SD memory card or USB memory)	•	•	•	•	•
3		File output	(SD memory card or USB memory)	•		•*6	•	•
24		Serial printer output	(== momory data or odd memory)	•	•	• °6	•	•*2
RAN	Hard copy	Ethernet printer output		•	•	• 15	•	• 2
		PictBridge printer output	Printer unit	-	-		-	• 2
5 I	I		i finter unit	-	_	_		• -
Inf GOT	Project scrip			•	•	•	•	

To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD, the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT200 Series.
 GT2715-TRA, GT2715-XTBD, GT2712-STBA, GT2712-STBA, GT2712-STWD, GT2712

*15 GT2104-RTBD, GT2103-PMBD only.
*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.
*17 Excluding GT2505-VTBD.
*18 GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit is not required.
*19 GT2505HS-VTBD supports the function with Ethernet connection only.
*20 GT21 has different interfaces depending on the model. For the details, please refer to the performance specifications on pages 152 and 153.
*21 Only Ethernet, OPC UA client, and microcomputer connections are supported.
*22 If the function version is B or earlier, the memory for operation (RAM) is 128 MB.
*23 GT SoftGOT2000 supports the server function only.
*24 It is recommended to use GT SoftGOT2000 (Multiple channels) for this function.

Specifications

ww Fun	nction name	Necessary devices *1	GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged
Barcode funct			•	•	•	_	
RFID function			•	•	•	-	•
GOT Mobile fu		License, (SD memory card)	•	•	•	•	•
VNC server fu		License	•	•	•	•	•
function (Ether	onal computer operation rnet)	License	٠	•	•	•	•
	onal computer operation	RGB input unit or Video/RGB input unit	● *8	-	-	-	-
function (serial Video display		Video input unit or Video/RGB input unit	• *8	_	_	_	_
DOD I'L (RGB input unit or Video/RGB input unit	• *8	-	-	-	-
Multimedia fur External I/O fu		Multimedia unit, CF card	•*8	-	-	-	-
		External I/O unit	•	● *17	-	-	-
Video output		External I/O unit	•	● *17	-	-	-
d Video output function	RGB output	Digital video output unit RGB output unit	● *8 ● *8		_		
-	File output	(SD memory card or USB memory)	•	•	•	•	•
Report	Serial printer output	(SD memory card or USB memory)	•	•	•	-	•
	Ethernet printer output	(SD memory card or USB memory)	•	•	•	•	•
	PictBridge printer output		•	● *17	-	-	-
		Sound output unit *18	•	● *17	● *18	-	● *18
	n, Client function		•	•	•	•	•
Mail send fund			•	•	•	•	•
FTP server fun		(SD memory card or USB memory)	•	•	•	•	•
	Inction (FTP transfer)	SD memory card or USB memory	•	•	•	•	•
File transfer fun	ction (GOT internal transfer		•	•	•	•	•
MES interface		License, (SD memory card)	٠	•	•	•	•
Wireless LAN		Wireless LAN communication unit	•	•*17	•	-	•
	USB keyboard		•	•	•	-	•
Base screen	204		•	•	•	•	•
Overlap windo Superimpose			•	•	•	•	•
Dialog window			•	•	•	•	•
Mobile screen			•	•	•	•	•
Key window			•	•	•	•	•
Language swit			•	•	•	•	•
System inform			•	•	•	•	•
	entication function	(SD memory card or USB memory)	•	•	•	•	•
Operation log		SD memory card or USB memory	•	•	•	•	•
Startup logo KANA KANJI d	conversion		•	•	•	•	•
			•	•	•	•	•
SoftGOT-GOT		License key	•	•	•	•	•
FA transparent SoftGOT-GOT Backup/Resto	oration	SD memory card or USB memory	•	•	•	•	•
Multi-channel	function		● *9 4 channels (Up to 3 units)	4 channels (Up to 3 units *17)	4 channels (No units can be mounted)	● *19 4 channels (No units can be mounted)	● 4 channels (No units can be mount
Station No. sw	vitching		۲	•	•	•	•
GOT network			•	•	•	•	•
Screen gestur			•	-	-	-	-
Object gesture			•	-	-		_
IP filter functio	uthentication function		•	•	•	•	•
File manager	1	(SD memory card or USB memory)					
The manager		(OD memory card or COD memory)	•	•	•	•	
Vertical display			(Rotate 90 ° to left)	(Other than below: rotate 90° to left GT2505: rotate 90° to right)	(Rotate 90 ° to left)	-	(Rotate 90 ° to left
Vision sensor i Device monito		(SD memory card or USB memory)	•	•	•	•	•
	or gram monitor (iQ-R ladder		•	•	•	•	•
	n monitor (iQ-F ladder) NEW	SD memory card or USB memory	•	•	•	•	•
	gram monitor (Ladder)	SD memory card or USB memory	•	•	•	•	•
	gram monitor (SFC)	SD memory card or USB memory	•	•	•	•	•
Network moni	itor		•	•	•	•	•
11	N / CC-Link IE Field		•	•	•	•	•
Network diagr			-	-	-		
Intelligent mod		(SD memory card or USB memory)	•	•	•	•	•
Servo amplifie		(SD memory card or USB memory) (SD memory card or USB memory)	•	•	•	•	•
Motion progra		, ,	• *4	•*4	•*4 NEW	_	-
Motion progra		SD memory card or USB memory	• *4	•*4	• *4 NEW	_	-
Servo amplifie			•	•	•	•	•
R motion mon			•	•	•	•	•
Q motion mon			•	•	•	•	•
R motion SFC		. , , ,	•	•	•	•	•
		SD memory card or USB memory	•	•	•	•	•
Q motion SFC	۷		• • *4	• • *4	-	•	
CNC monitor		SD memory card or USB memory	• *4	• *4	-		
CNC monitor : CNC monitor			• *4	• *4	_	-	-
CNC monitor : CNC monitor CNC data I/O	ng program edit	(SD memory card or USB memory)	•	•	•	•	•
CNC monitor : CNC monitor	ng program edit			•	_	•	_
CNC monitor 2 CNC monitor CNC data I/O CNC machinin	ng program edit	(•				
CNC monitor 2 CNC monitor CNC data I/O CNC machinin Log viewer FX list editor FX ladder mor			•	•	•	•	•
CNC monitor 3 CNC monitor CNC data I/O CNC machinin Log viewer FX list editor FX ladder mor iQSS utility	nitor	SD memory card or USB memory	•	•	•	•	•
CNC monitor : CNC monitor CNC data I/O CNC machinin Log viewer FX list editor FX ladder mor iQSS utility System launch	hitor		•	•	•	•	•
CNC monitor 3 CNC monitor CNC data I/O CNC machinin Log viewer FX list editor FX ladder mor iQSS utility System launch	nitor her her (servo network)		•	•	•	•	•

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Necessary units when using GT27, GT25, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21 wide, GT21, or GS21 models are shown. Parenthesized devices are required depending on conditions of *1 use.

*2 *3

Data is output to the printer that is recognized by the personal computer. CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers. Only the GOTs with SVGA or higher resolution are supported.

*4

*5 Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: utility screen, monitor and data management screens that are displayed from the utility screen (sequence program monitor, etc.), video camera images in the multimedia and video display functions. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Hejp.
*6 Excluding GT2103-PMBLS.
*7 GT2104-RTBD only.
*8 Excluding GT2103-PMBLS.

*7 GT2104-RTBD only.
*8 Excluding GT2705-VTBD.

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000/GOT SIMPLE Series. •: Supported -: Not su

ate <u>gor</u>								ported -: Not supporte
		nction name	Necessary devices *1	GT23	GT21 Wide	GT21	GS21-W-N NEW	GT SoftGOT2000
	Barcode fund RFID function			•	•	• *6 • *6	•	•
	GOT Mobile		License, (SD memory card)	_	-	-	-	• *24 NEW
	VNC server fi	unction	License	-	•	-	NEW	_
		onal computer operation	License	_	_	_	_	_
	function (Ethe	ernet) onal computer operation						
	function (seria		RGB input unit or Video/RGB input unit	-	-	-	-	-
	Video display	/ function	Video input unit or Video/RGB input unit	-	-	-	-	—
Ę	RGB display		RGB input unit or Video/RGB input unit	-	-	-	-	-
Functions	Multimedia fu External I/O f		Multimedia unit, CF card External I/O unit	-	-	-	-	_
us us	Operation pa		External I/O unit External I/O unit			_		•
Sed	Video output	HDMI output	Digital video output unit	_	-	-	-	_
Soreen design	function	RGB output	RGB output unit	-	-	-	-	-
peri		File output	(SD memory card or USB memory)	•	-	-	-	● *3
Scroop docion	Report	Serial printer output	(SD memory card or USB memory)	•	•	•*6	•	• *3
	function	Ethernet printer output PictBridge printer output	(SD memory card or USB memory) SD memory card or USB memory, printer unit	•	•	• *15	• _	• *3 • *3
devices	Sound outpu		Sound output unit *18	=	_	-		• •
0	· · ·	on, Client function		_	_	_	_	• *23 NEW
	Mail send fur	oction		-	-	-	-	•
	Network drive	e function		-	-	-	-	•
	FTP server fu		(SD memory card or USB memory)	•	•	● *15	•	-
		unction (FTP transfer)	SD memory card or USB memory	•	•	● *15	•	-
	File transfer fu MES interfac	nction (GOT internal transfer) e function	SD memory card or USB memory License, (SD memory card)	-	-			
	Wireless LAN		Wireless LAN communication unit					
		USB keyboard		•	•	-	-	•
	Base screen			•	•	•	•	•
	Overlap wind			•	•	•	•	•
	Superimpose			•	•	•	•	•
	Dialog windo Mobile scree			•	•	•	•	•
	Key window	n		-	-	•	•	• *24 NEW
	Language sw	vitching		•	•	•	•	•
	System inforr			•	•	•	•	•
	Operator aut	hentication function	(SD memory card or USB memory)	•	•	● *16	•	•
	Operation log]	SD memory card or USB memory	•	NEW	-	NEW	•
	Startup logo			•	•	•	•	•
G	KANA KANJI			-	NEW	-	-	•
GOT fi	FA transpare			•	•	•	•	-
⁻ functior	SoftGOT-GO Backup/Rest		License key SD memory card or USB memory	-	-	 ● *6	-	•
ions	Backup/Rest	oration	SD memory card or USB memory	•	•	• 6	•	
	Multi-channe	l function		2 channels	2 channels (No units can be mounted)	2 channels	2 channels	4 channels
	Station No. s	witching		(No units can be mounted)	(No drifts call be modified)	(No units can be mounted)	(No units can be mounted)	•
	GOT network			•	_	-	_	•
	Screen gestu			-	-	-	-	-
	Object gestu	re function		-	-	-	-	-
		authentication function		•	-	-	-	-
	IP filter functi		(00	•	•	•	•	-
	File manager		(SD memory card or USB memory)	•	-	-	-	-
	Vertical displa	ay *5		(Rotate 90 ° to left)	(Rotate 90 ° to left)	(Rotate 90 ° to right)	(Rotate 90 ° to left)	-
	Vision sensor	r monitor NEW		-	-	-	-	-
	Device monit		(SD memory card or USB memory)	•	•	•	•	
	1	ogram monitor (iQ-R ladder)	CD means and as LICD means			•	•	-
		° ()		—	-	-	-	-
		m monitor (iQ-F ladder) NEW	SD memory card or USB memory	-	-	-	-	_
	Sequence pr	m monitor (iQ-F ladder) NEW ogram monitor (Ladder)	SD memory card or USB memory SD memory card or USB memory	-	-			
	Sequence pr	m monitor (Q-F ladder) NEW ogram monitor (Ladder) ogram monitor (SFC)	SD memory card or USB memory			- - -	- - - -	- - -
	Sequence pro Sequence pro Network mor	m monitor (iQ-F ladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor	SD memory card or USB memory SD memory card or USB memory	-	-			
	Sequence pro Sequence pro Network mor	m monitor (iQ-F ladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field	SD memory card or USB memory SD memory card or USB memory			- - -	- - - -	- - -
	Sequence pro Sequence pro Network mor CC-Link IE T	m monitor (Q-Fladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field ynostics NEW	SD memory card or USB memory SD memory card or USB memory	- - - -	- - - -			
	Sequence pro Sequence pro Network mor CC-Link IE T Network diag	mmontor (Q-Fladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field ynostics NEW odule monitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory)	- - - -	- - - - -	- - - - -	-	
	Sequence pro Sequence pro Network mor CC-Link IE T3 Network diag Intelligent mc Drive recorde Servo amplifi	m monitor (Q-Fladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field SN / CC-Link IE Field NEW dulle monitor er graph	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory				- - - - - - -	
~	Sequence pri Sequence pri Network mor CC-Link IE TS Network diag Intelligent mo Drive recorde Servo amplifit Motion progr	m monitor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory)				- - - - - - - - - - - -	
Maim	Sequence pr Sequence pr Network mor CC-Link IE T Network diag Intelligent mo Drive recorde Servo amplifi Motion progr Motion progr	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field ynostics NEW odule monitor er er graph am editor am I/O	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory)					
Maintena	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progr Servo amplifi	m monitor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field ynostics NEW odule monitor er graph am editor am I/O er monitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory)					
Maintenance	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progri Motion progri Servo amplifi R motion mo	mmonter (IQ-F ladder) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor am I/O er monitor nitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory)					
Maintenance func	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifit Motion progr Servo amplifit	mmonter (IQ-F ladder) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor am I/O er monitor nitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory)					
Maintenance function.	Sequence pr Sequence pr Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progr Motion progr Servo amplifi R motion mo Q motion mo	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field postics NEW ddule monitor er graph am editor am I/O er monitor nitor nitor O monitor NEW	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory					
Maintenance functions	Sequence pr Sequence pr Network mor CC-Link IE T Network diag Intelligent mo Drive recorde Servo amplifi Motion progr Motion progr Servo amplifi R motion mo R motion sPG	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field pnostics NEW chule monitor ar er graph am editor arm I/O er monitor nitor c monitor C monitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory					
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifit Motion progr Motion progr Servo amplifit R motion mo R motion SFG Q motion SFG	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field ynostics NEW odule monitor er graph am editor am I/O er monitor nitor C monitor NEW C monitor	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory					
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progri Motion progri Motion progri Servo amplifi R motion mo R motion mo R motion SFC Q motion SFC CNC monitor CNC monitor CNC data I/C	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field pnostics NEW dule monitor ar egraph arn editor arn editor arn I/O er monitor nitor nitor C monitor 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory					
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi R motion progri Motion progri Servo amplifi R motion motion motion Q motion SFG Q motion SFG CNC monitor CNC monitor CNC monitor CNC monitor	mmonter (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor am I/O er monitor nitor C monitor C monitor 2 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory					
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifit R motion progr Motion progr Servo amplifit R motion mo Q motion sfc Q motion SFC Q motion SFC Q motion SFC CNC monitor CNC monitor CNC data I/O CNC machin Log viewer	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field pnostics NEW dule monitor ar egraph arn editor arn editor arn I/O er monitor nitor nitor C monitor 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory					
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progr Servo amplifi R motion progr Servo amplifi R motion sequence Q motion sequence Q motion SFC Q motion SFC CNC monitor CNC monitor CNC data I/C CNC machin Log viewer FX list editor	mmonter (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) titor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor am I/O er monitor nitor C monitor C monitor 2 monitor 2 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory			- - - - - - - - - - - - - - - - - - -		
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi Motion progri Motion progri Motion progri Motion progri Motion progri Motion progri Motion progri R motion mo Q motion mo Q motion SFC Q motion SFC CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor FX list editor FX lat deftor	mmonter (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) titor SN / CC-Link IE Field nostics NEW odule monitor ar er graph am editor am I/O er monitor nitor C monitor C monitor 2 monitor 2 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory)			- - - - - - - - - - - - - - - - - - -		
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi R motion progri Motion progri Servo amplifi R motion motion Q motion SFG Q motion SFG Q motion SFG Q motion SFG CNC monitor CNC monitor CN	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field postics NEW ddule monitor ar er graph am editor am I/O er monitor C monitor C monitor C monitor 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory			- - - - - - - - - - - - - - - - - - -		
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifit R motion progr Servo amplifit R motion progr Servo amplifit R motion sequence Q motion SFG Q motion SFG Q motion SFG Q motion SFG Q motion SFG Q motion SFG CNC monitor CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor CNC data I/C Secuence FX latedder mo IOSS utility System launce	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field postics NEW ddule monitor ar egraph am editor am I/O er monitor C	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory)			- - - - - - - - - - - - - - - - - - -		
Maintenance functions	Sequence pri Sequence pri Network mor CC-Link IE T: Network diag Intelligent mo Drive recorde Servo amplifi R motion progr Motion progr Servo amplifi R motion mo Q motion sfe Q motion SF(Q motion SF(Q motion SF(CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor CNC data I/C CNC monitor SY data I/C Sy stem launc System launc	m montor (IQ-F ladde) NEW ogram monitor (Ladder) ogram monitor (Ladder) ogram monitor (SFC) nitor SN / CC-Link IE Field postics NEW ddule monitor ar er graph am editor am I/O er monitor C monitor C monitor C monitor 2	SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory) (SD memory card or USB memory) SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory SD memory card or USB memory (SD memory card or USB memory)			- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	

¹⁹ To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT2700 Series.
 ¹¹ GT2715-XTBA, GT2715-XTBA, GT2712-STBA, GT2712-STBA, GT2712-STWA, GT2712-S

*15 GT2104-RTBD, GT2103-PMBD only.
*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.
*17 Excluding GT2505-VTBD.
*18 GT25 wide and GT25 rugged models have a built-in sound output interface so that the sound output unit is not required.
*19 GT2505HS-VTBD supports the function with Ethernet connection only.
*20 GT21 has different interfaces depending on the model. For the details, please refer to the performance specifications on pages 152 and 153.
*21 Only Ethernet, OPC UA client, and microcomputer connection (RAM) is 128 MB.
*23 GT SoftGOT2000 supports the server function only.
*24 It is recommended to use GT SoftGOT2000 (Multiple channels) for this function.

Connectable model list (GOT2000/GOT SIMPLE)

♦ Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

		strie progr				10,						uu		nect			- TEI		, 0,	IIIC			JIIC		
						6				/GT2								GT23						-W-N	
	Series		Model name	Ethernet connection	Direct CPU connection (serial)	Serial communication connection	cc-Link IE TSN connection ⁴²	CC-Link IE Controller Network connection '42	nk IE Fi	CC-Link connection (intelligent device station) *42	CC-Link connection (via G4) *2	Bus connection *3 *42	MELSECNET/H connection	MELSECNET/10 connection	Multi-drop connection *5	Ethernet connection	Direct CPU connection (serial)	Serial communication connection	CC-Link connection (via G4) *2	Multi-drop connection *5	Ethernet connection *6	Direct CPU connection (serial)	Serial communication connection	CC-Link connection (via G4) *2	Multi-drop connection *5 *7
			R00CPU R01CPU R02CPU	-			0 *46																		
	MELSEC iQ-R Series	Programmable controller CPU	R04CPU R08CPU R16CPU R32CPU R120CPU R04ENCPU R06ENCPU R16ENCPU R32ENCPU R16ENCPU R32ENCPU	0	×	0	O *47	0	0	0	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×
		Safety CPU	R08SFCPU *39 R16SFCPU *39 R32SFCPU *39 R120SFCPU *39	0	×	0	O *48	0	0	0	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×
		Process CPU	R08PCPU *41 R16PCPU *41 R32PCPU *41 R120PCPU *41	0	×	0	×	0	0	0	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×
		SIL2 process CPU	R08PSFCPU *43 R16PSFCPU *43 R32PSFCPU *43 R120PSFCPU *43	0	×	×	×	0	0	0	×	×	×	×	×	0	×	×	×	×	0	×	×	×	×
		High-speed type universal model QC	Q130DVCP0 Q26UDVCPU	O *18	Q.	0	×	O,9	O *10	0	0	0	O *18	O *18	O ^{\$8}	O *18	O*8	0	0	Q.8	O *18	O*8	0	0	₽
			Q00UJCPU Q00UJCPU-S8 NEW Q00UCPU	-				Q				<u>_</u> 11	-												
Programmable		Universal model QCPU	Q01UCPU Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU Q10UDHCPU Q13UDHCPU Q20UDHCPU Q20UDHCPU		0	0	×	0 *12 0	0 *10	0	0	0	O *18	O *18	0	O *18	0	0	0	0	O *18	0	0	0	0
controller	MELSEC-Q Series (Q mode)	Built-in Ethernet type	Q26UDHCPU Q03UDECPU Q04UDEHCPU Q06UDEHCPU Q10UDEHCPU Q10UDEHCPU Q20UDEHCPU Q20UDEHCPU Q26UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU Q30UDEHCPU		Q8	0	×	0. *12	Q.	0	0	0	•18	O _{*18}	Q	Q.*18	Ô	0	0	Ô ⁸	•18	Qp	0	0	Q:8
		Basic model QCPU	Q00JCPU Q00CPU *16 Q01CPU *16	- O *18	0	0	×	O *13	×	0	0	0 •11 0	0 *18	O *14 *18	0	O *18	0	0	0	0	0 *18	O *15	0	0	0
		High performance model QCPU	Q02CPU *16 Q02HCPU *16 Q06HCPU *16 Q12HCPU *16 Q25HCPU *16 Q25HCPU *16	-18	0	0	×	<u>.</u>	×	0	0	0	.0 *18	O *14 *18	0	Q *18	0	0	0	0	Q.	0	0	0	0
		Process CPU	Q02PHCPU Q06PHCPU Q12PHCPU Q25PHCPU	- *18	0	0	×	0 *19 0	×	0	0	0	O *18	O *14 *18	×	O *18	0	0	0	×	×	×	×	×	×
		Redundant CPU (main base)	Q12PRHCPU Q25PRHCPU	0	0	×	×	O *21	×	0	0	×	0	0 *14	×	0	0	×	0	×	×	×	×	×	×
		Redundant CPU (extension base)	Q12PRHCPU Q25PRHCPU	0	×	0	×	×	×	0	0	×	×	×	×	0	×	0	0	×	×	×	×	×	×
	MELSEC-QS Series		QS001CPU	0	×	×	×	0 *22	0 *23	×	×	×	0	0	×	0	×	×	×	×	×	×	×	×	×
			L02SCPU-P L02CPU	*24 *25	0	0	×	×	*26	0	0	×	×	×	0	0 *24 *25	0	0	0	0	*24*25	0	0	0	0
	MELSEC-L Series		L02CPU-P L06CPU L06CPU-P L26CPU L26CPU-P L26CPU-BT L26CPU-BT L26CPU-PBT	O *24	O *27	0	×	×	O *26	0	0	×	×	×	O *27	O *24	O *27	0	0	O *27	O *24	O *27	0	0	O *27
	MELSEC iQ-F Series		FX5U FX5UC FX5UJ	0	0	×	0 *49 ×	×	0	Q.	×	×	×	×	×	0	0	×	×	×	0	0	×	×	×

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

										-		Cor	nnect	tion t	уре									
									/GT2							(GT23			_	F21/G	S21		*1
	Series	Model name	Ethernet connection	Direct CPU connection (serial)	Serial communication connection	CC-Link IE TSN connection ^{*42}	CC-Link IE Controller Network connection ⁴²		ligen	CC-Link connection (via G4) *2	Bus connection *3 *42	MELSECNET/H connection	MELSECNET/10 connection	Multi-drop connection *5	Ethernet connection	Direct CPU connection (serial)	Serial communication connection	CC-Link connection (via G4) *2	Multi-drop connection *5	Ethernet connection ^{*6}	Direct CPU connection (serial)	Serial communication connection	CC-Link connection (via G4) *2	Multi-drop connection *5 *7
		FX0																						
		FX0S FX0N FX1 FX1S FX1N FX1NC FX0 FX0 FX0 FX0 FX0 FX0 FX0 FX0	×	0	×	×	×	×	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×	0
Programmable	MELSEC-F Series	FX2 FX2C	×	0	×	×	×	×	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×	0
controller		FX2N FX2NC	×	0	×	×	×	×	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×	0
		FX3G FX3GC FX3U FX3UC FX3S FX3GE	*20	0	×	×	×	×	- *38	×	×	×	×	0	O *20	0	×	×	0	O *20	0	×	×	0
	MELSEC iQ-R Series	R12CCPU-V	0 *37	×	O *28	O *50	0	0	0	×	×	×	×	×	O *37	×	O *28	×	×	0 *37	×	0 *28	×	×
C Controller module	MELSEC-Q Series	Q24DHCCPU-V Q24DHCCPU-VG Q24DHCCPU-LS Q12DCCPU-V ²⁹ Q26DHCCPU-LS	0	Q	 28	×	Q	0	0	0	0	0	0	*8 ⁻²⁸	0	Qp	Q*28	0	*0 *8*28	0	Qp	0 •28	0	*0 *8 *28
MELSECWINCPU	MELSEC iQ-R Series	R102WCPU-W	0	×	O *28	0	0	×	0	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×
Safety controller	MELSEC-WS Series	WS0-CPU0 WS0-CPU1 WS0-CPU3	×	0	×	×	×	×	×	×	×	×	×	×	×	0	×	×	×	×	O *30	×	×	×
	MELSEC iQ-R Series	R16MTCPU R32MTCPU R64MTCPU	0	×	0	×	0	0	0	×	×	×	×	×	0	×	0	×	×	Q *40	×	Q *40	×	×
		Q172CPU *32 Discontinued Q173CPU *32 Discontinued	0 *18 *31	0	O *31	×	×	×	O *31	O *31	O •33	0 *18*31	O *18 *31	0	0	O *33	O *31	O *31	O *31 *33	0	O *33	O *31	O *31	O *31 *33
		Q172CPUN *32 Discontinued Q173CPUN *32 Discontinued	0	0	0	×	×	×	0	0	0	0 18	0 18	0	0 18	0	0	0	0	0 •18	0	0	0	0
		Q172HCPU Discontinued Q173HCPU Discontinued	18	Ç	0	×	×	×	0	0	0	0 -18	18	Q	0 •18	Qp	0	0	Q	0 *18	Q	0	0	Q.
Motion controller		Q172DCPU Q173DCPU	0 *18	0	0	×	0	×	0	0	0	0 *18	O *18	ò	0 *18	0	0	0	Q	0 *18	0	0	0	Q.
	MELSEC-Q Series	Q172DCPU-S1 Q173DCPU-S1	0 *18 *34	Q 8	0	×	0	×	0	0	0	0 *18	0 *18	Q 8	0 *18 *34	0	0	0	Q	0 *18 *34	0	0	0	Q.
		Q172DSCPU	*18	-8 0	0	×	0	×	0	0	0	-18 O	-18 O	-8 O	-18-34 O *18	0°	0	0	-8 0 *8	0 *18	-8 0	0	0	-78 O 8
		Q173DSCPU Q170MCPU *35	*18 0 *18 *34	- <u>*8</u>	0	×	0	0	0	0	0	*18 0 *18	*18 0 *18	- 0	*18 0 *18 *34	- 10 0	0	0		*18 0 *18 *34		0	0	- <u>18</u>
		Q170MSCPU		0	0	×	0	•10 •36	0	0	0	•18 O	*18 	0	•18 •34	0	0	0	0	•18 •34	0	0	0	0
		Q170MSCPU-S1 MR-MQ100	-18 0	0	×	×	×	*36 ×	×	×	×	*18 ×	*18 ×	0	*18	0	×	×	0	*18	0	×	×	0
MELSECNE	T/H remote I/O station	QJ72LP25-25 QJ72LP25G QJ72BR15	0	0	0	×	×	×	×	×	×	×	×	×	0	0	0	×	×	0	×	x	×	×
	ield Network MELSEC iQ-R Series	RJ72GF15-T2	0	×	0	×	×	0	×	×	×	×	×	×	0	×	0	×	×	0	×	0	×	×
head module CC-Link IE Fi	MELSEC-L Series eld Network Ethernet adapter module	LJ72GF15-T2 NZ2GF-ETB	×	××	O X	××	××	0	×	××	××	××	××	××	×	××	O X	××	××	×	××	0 ×	××	××
		RD78G4	0 *45	×	×	×	×	×	×	×	×	×	×	×	0 *45	×	×	×	×	0 *45	×	×	×	×
		RD78G8	45 0. *45	×	×	×	×	×	×	×	×	×	×	×	45 0 *45	×	×	×	×	45 0 *45	×	×	×	×
		RD78G16	Q.	×	×	×	×	×	×	×	×	×	×	×	Q.	×	×	×	×	Q *45	×	×	×	×
CC-Link IE T	SN Motion module NEW	RD78G32	0 *45	×	×	×	×	×	×	×	×	×	×	×	0 *45	×	×	×	×	0 *45	×	×	×	×
		RD78G64	0 *45	×	×	×	×	×	×	×	×	×	×	×	0 *45	×	×	×	×	0 *45	×	×	×	×
		RD78GHV	0 *45	×	×	×	×	×	×	×	×	×	×	×	0 *45	×	×	×	×	0 *45	×	×	×	×
		RD78GHW	Q *45	×	×	×	×	×	×	×	×	×	×	×	0 *45	×	×	×	×	0 *45	×	×	×	×

Connectable model list (GOT2000/GOT SIMPLE)

- GT2103-PMBLS supports connection with MELSEC iQ-F Series and MELSEC-F Series only. CC-Link (via G4): connect to the CC-Link system via AJ65BT-G4-S3 or AJ65BT-R2N. When using bus connection, follow the precautions below. *1 *2 *3
- •When multiple GOTs are connected, the GOT2000 Series cannot be connected with the GOT800 Series or A77GOT
- Series of A7 AGUT. Bus connectation cannot be established with QCPU (A mode). •The number of connectable GOTs is restricted according to the CPU type and the number of intelligent function modules. •The GOT2000 Series, GOT1000 Series, and GOT_A900 Series can be connected together in
- *4
- The GOT2000 Series, GOT1000 Series, and GOT-A900 Series can be connected together in a system. Please refer to the following Technical Bullitius on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).
 "Precautions when Replacing GOT1000 Series with GOT2000 Series" No. GOT-A-0061
 "Precautions when Replacing GOT-000 Series with GOT2000 Series" No. GOT-A-0061
 "connected to the remote VID Series with GOT2000 Series" No. GOT-A-0062
 Includes the case on the MELSECNET/H network system in the MNET/10 mode. The GOT cannot be connected to the remote VID network.
 When the number of connected slave GOTs and the device points of each GOT increase, the device update cycle on the screen may get slower.
 (Please consider 250 points as a guide of 1 GOT, and 750 points as a guide of the total points).
 Orbus wender de v_COT300 MUPD_COT300 MUPD_COT300 MUPD_COT300 *5
- (Please consider 250 points as a guide of 1 GOI, and 750 points as a guide of the total points.) Only supported by GT2107-WTBD, GT2107-WTSD, GT2104-RTBD, GT2103-PMBD, GS2110-WTBD-N, and GS2107-WTBD-N. GT2103-PMBDS2 and GT2103-PMBLS are not supported. Access via the serial port (R5-232) of QCPU in the multiple CPU system since the CPU has no serial port. Use a CG-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. *6

- *9 *10
- *11
- *12
- 15
- *16 *17
- Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Use a CPU with the upper five digits of the serial No. later than 12012. When using the bus extension connector box (A9GT-QCNB), attach it to the extension base unit. (Connecting it to the main base unit is not allowed.) Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Use a CPU and a CC-Link IE Controller Network module of function version D or later. In the multiple CPU system, use a CPU or a MELSECNET/H network module of function version B or later. GT2103-PMBD and GT2103-PMBLS cannot be connected to Q000, Q00, or Q01CPU. When in multiple CPU system configuration, use a CPU of function version B or later. Use a CPU with the upper five digits of the serial No. later than 09012 . When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later. In the Ethernet, MELSECNET/H or SECNET/10 connection, to monitor a QCPU in the multiple CPU system, always use a network module of function version B or later. Use a CC-Link IE Controller Network module of function version D or later. The supported version of the main units varies depending on the Ethernet module to be used as *18
- *20 The supported version of the main units varies depending on the Ethernet module to be used as shown below.

Ethernet module *	CPU										
Ethernet module	FX3U(C)	FX3G(C)									
FX3U-ENET-L	Ver. 2.21 or later	FX3U-ENET-L is	s not supported.								
FX3U-ENET-ADP *	Ver. 3.10 or later	Ver. 2.00 or later	Ver. 1.00 or later								
* To connect to a EX3SCPU	use a FX3LI-ENET-ADE	Ver 1 20 or later	•								

- *21 Use a CPU with the upper five digits of the serial No. later than 10042 or a CC-Link IE Controller
- Network module of function version D or later. Network module of function version D or later. Use a CPU with the upper five digits of the serial No. later than 10032 or a CC-Link IE Controller Network module of function version D or later. Use a CPU with the upper five digits of the serial No. later than 13042. When using a LJ/TE71-100, use a CPU with the upper five digits of the serial No. later than 14112. Use a LJ/TE71-100 since the CPU has no built-in Ethernet port. *22

- *26 Use a CPU with the upper five digits of the serial No. later than 13012.
 *27 The adapter L6ADP-R2 or L6ADP-R4 is required. When using the L6ADP-R4 adapter, use a CPU with the upper five digits of the serial No. later than 15102. *28 Use the serial port of a serial communication module controlled by another CPU on the multiple CPU
- *29
- Use the serial port of a serial communication module controlled by another CPU on the multiple CPU system. Use a CPU with the upper five digits of the serial No. later than 12042. GT2103-PMBD and GT2103-PMBLS cannot be connected to the MELSEC-WS Series. In Ethernet connection, serial communication connection, OC-Link (Intelligent device station) connection, CC-Link (via G4) connection, MELSECNET/H connection, or MELSECNET/10 connection, use main modules with the following product numbers. G172CPU: Product number M******* or later G172CPU: Product number M******** or later
- *32

- *33 In direct CPU connection (serial), bus connection, or multi-drop connection, use main modules with

- In direct CPU connection (senal), bus connection, or multi-drop connection, use main modules with the following product numbers. Q172CPU: Product number K^{*******} or later Q173CPU: Product number development PERIPHERAL I/F can be used. When using SV43, use the CPU on which any of the following main OS software version is installed. SW7DNC-SV43CI: 00F or later Only the PLC CPU area (CPU No.1) can be monitored. Use the built in Ethernet nort since B.17EINT is not supported. *35
- *36 *37
- *38
- Unit me PLC UPU area (UPU No.1) can be monitored. Use the built-in Ethernet port since RJ71EN71 is not supported. Only cyclic transmission can be used. Mount a safety function module R6SFM next to the RnSFCPU on the base unit. The RnSFCPU and the safety function module R6SFM must have the same pair version. If their pair versions differ, the RnSFCPU does not operate. Up to 32 axes are supported by GT21. R standard placement method is not supported. Mount a redundant function module R6RFM next to the RnPCPU on the base unit when building a redundant system. *39
- *40 *41 redundant system.
- redundant system. G72512-WXTBD, G72512-WXTSD, G72510-WXTBD, G72510-WXTSD, G72507-WTBD, G72507-WTSD, G72507-WTSD, G72505-VTBD, G72506HS-VTBD, and G72505HS-VTBD are not supported. Mount the SIL2 function module R6PSFM and redundant function module R6PFM next to the RnPSFCPU on the base unit. Use the built-in Ethernet port since LJ71EN71 is not supported. Connect the GOT and Motion module through the built-in Ethernet port of the programmable controller to monitor the global labels of the Motion module with the GOT. *42
- *43
- *45
- *46
- to monitor the global labels of the Motion module with the GUT. Use the following firmware version. Line connection or star connection: 11 or later, Ring connection: 18 or later Use the following firmware version. Line connection or star connection: 43 or later, Ring connection: 50 or later Use firmware version 1.210 or later. Use firmware version 1.210 or later. *47
- *49
- For C Controller module (MELSEC iQ-R series), use firmware version 15 or later *50

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/Motion controllers

Ethernet connection

CPU series		Ethernet module
MELSEC IQ-R Series	RJ71EN71 ¹⁴ RJ71GN11-T2 ¹⁵ RD7864 ¹⁵ ¹⁶ NEW RD7868 ¹⁵ ¹⁶ NEW RD7868 ¹⁵ ¹⁶ NEW	RD78G32 ¹⁵ ¹⁶ NEW RD78G64 ¹⁵ ¹⁶ NEW RD78GHV ¹⁵ ¹⁶ NEW RD78GHW ¹⁵ ¹⁶ NEW
C Controller module (MELSEC iQ-R Series) ⁺⁷	RJ71GN11-T2 RD78G4 RD78G8 RD78G16	RD78G32 RD78G64 RD78GHV RD78GHW
MELSECWinCPU (MELSEC iQ-R Series) NEW	RJ71GN11-T2	
MELSEC iQ-F Series NEW	FX5-ENET '8 *9 FX5-ENET/IP *8 *9	FX5-CCLGN-MS ^{*8} FX5-40SSC-G ^{*8 *10} FX5-80SSC-G ^{*8 *10}
Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71EN71 *4	
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71	
MELSEC-L Series	LJ71E71-100 *1	
MELSEC-F Series	FX3U-ENET-L *2	FX3U-ENET-ADP *2 *3
CC-Link IE Field Network Ethernet adapter module NEW	NZ2GF-ETB	

*2

Use a Q-O with the upper tive digits of the Senai No. later than 14 112. Options for extension controller may be required depending on the connected CPU. To connect to a FX3SCPU, use a FX3U-ENET-ADP Ver.1.20 or later. Use firmware version 12 or higher when building a redundant system. For connectable programmable controller CPUs and their firmware versions that support connection to each module, please refer to the manual of the CPU or the module to use. *3 *4 *5 *6 Use a Motion module with software version 06 or later.

- When connecting to the CC-Link IE TSN master/local module or Motion module, use the C Controller module (MELSEC IO-R series) with firmware version 15 or later. FSUJ is not supported. For FX5-ENET and FX5-ENET/IP, use firmware Ver.1.100 or later. For FX5-ENET and FX5-ENET/IP, use firmware Ver.1.100 or later. For FX5-U, FX5UC, and FX5UJ that support FX5-ENET or FX5-ENET/IP, use firmware Ver.1.240 or later. *7 *8
- *9

*10 For FX5U and FX5UC that support FX5-40SSC-G or FX5-80SSC-G, use firmware Ver.1.230 or later.

Serial communication connection

CPU series		Serial communication mo	odule *1
GPU series	Model name	CH1	CH2
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) *5	RJ71C24 *4	RS-232	RS-422/485
MELSECWINCPU (MELSEC IQ-R Series) *5 NEW	RJ71C24-R2 *4	RS-232	RS-232
Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71C24-R4 *4	RS-422/485	RS-422/485
	QJ71C24 *2	RS-232	RS-422/485
	QJ71C24-R2 *2	RS-232	RS-232
MELSEC-Q Series (Q mode)	QJ71C24N	RS-232	RS-422/485
C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71C24N-R2	RS-232	RS-232
MELSECNET/H remote I/O station	QJ71C24N-R4	RS-422/485	RS-422/485
	QJ71CMO *3	Modular connector	RS-232
	QJ71CMON *3	Modular connector	RS-232
MELSEC-L Series	LJ71C24	RS-232	RS-422/485
CC-Link IE Field Network head module (MELSEC-L Series)	LJ71C24-R2	RS-232	RS-232

Communication cannot be performed with RS-485.

*2 Either CH1 or CH2 can be used for the function version A. Both CH1 and CH2 can be used together for the function version B or later. Only CH2 can be connected.

Use firms of it can be connected.
 Use the serial port of a serial communication module controlled by another CPU on the multiple CPU.

CC-Link IE TSN connection

CPU series	CC-Link IE TSN module
MELSEC iQ-R Series	RJ71GN11-T2 *1 *2 *3 *4
MELSEC iQ-F Series NEW	FX5-CCLGN-MS ^{*5}
*1 Usable with MELSEC iQ-R Series programmable controller CPUs only. *2 To use R00CPUL R01CPUL or R02CPUL use the firmware version 11 or later	 *4 For the ring connection, use firmware version 10 or later. *5 The ring connection is not supported

*3 To use programmable controller CPU (excluding R00CPU, R01CPU, R02CPU), use the firmware version 43 or later. e nng c

CC-Link IE Controller Network connection

CPU series	CC-Link IE Controller Network module				
MELSEC IQ-R Series C Controller module (MELSEC IQ-R Series) MELSECWinCPU (MELSEC IQ-R Series) Notion controller (MELSEC IQ-R Series)	RJ71GP21-SX ^{*2}				
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71GP21-SX *1 QJ71GP21S-SX *1				
When the CC-Link IE Controller Network is in the extended mode, use a module with the upper five diaits of the serial No. 12052 or later.					

*2 Use firmware version 12 or higher when building a redundant system.

CC-Link IE Field Network connection

CPU series		CC-Link IE Field Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GF11-T2 *1 RJ71EN71 *1 RD77GF4	RD77GF8 RD77GF16 RD77GF32
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71GF11-T2 QD77GF4	QD77GF8 QD77GF16
MELSEC-QS Series	QS0J71GF11-T2	
MELSEC-L Series	LJ71GF11-T2	
MELSEC iQ-F Series	FX5-CCLIEF	

*1 Use firmware version 12 or higher when building a redundant system.

•• Specifications

Connectable model list (GOT2000/GOT SIMPLE)

Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/Motion controllers

• CC-Link (intelligent device station) connection

CPU series		CC-Link module	
MELSEC iQ-R Series C Controller module (MELSEC IQ-R Series) MELSECWinCPU (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ61BT11 *2		
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ61BT11 QJ61BT11N		
MELSEC-L Series	LJ61BT11		
MELSEC iQ-F Series	FX3U-16CCL-M *1	FX5-CCL-MS	
MELSEC-F Series	FX3U-16CCL-M		

When using an FX3U-16CCL-M with the MELSEC iQ-F Series, bus conversion module (FX5-CNV-BUS or FX5-CNV-BUSC) is required.
 Use firmware version 04 or higher when building a redundant system.

• CC-Link (via G4) connection

CPU series	CC-Link module	Peripheral module			
	QJ61BT11 QJ61BT11N	AJ65BT-G4-S3 AJ65BT-R2N			
MELSEC-L Series	LJ61BT11	_ AJ65B1-H2N			

MELSECNET/H connection

CPU series	MELSECNET/H network module							
GPU series	Optical loop	Coaxial bus						
MELSEC-QS Series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11 *1						
	QJ71LP21-25 QJ71LP21S-25							

*1 Use function version B or later of the MELSECNET/H network module and CPU.

MELSECNET/10 connection

CPU series	MELSECNET/H (MNET/10 mode), MELSECNET/10 network module							
GPU series	Optical loop	Coaxial bus						
MELSEC-Q Series (Q mode) *1	QJ71LP21							
MELSEC-QS Series	QJ71LP21-25							
Motion controller (MELSEC-Q Series)	QJ71LP21S-25	QJ71BR11 *1						
C Controller module (MELSEC-Q Series)	QJ71LP21-25							
C Controller module (MELSEC-Q Series)	QJ71LP21S-25							

*1 Use function version B or later of the MELSECNET/H network module and CPU.

Mitsubishi Electric industrial computers

			GT27/GT25/GT23/GT21/GS21-W-N ¹¹												
		Connection type													
Series	Model name		Direct CPU connection (serial)	communication	CC-Link IE TSN connection	CC-Link IE Controller Network connection	Network	CC-Link connection (intelligent device station)		Bus connection	MELSECNET/H connection	MELSECNET/10 connection	Multi-drop connection		
MELIPC	MI5122-VW	0	×	×	×	×	0	×	×	×	×	×	×		

*1 GT23, GT21 and GS21-W-N support connection using Ethernet connection.

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Mitsubishi Electric inverters

	Series	G	T27/GT25/GT2	3/GT21/GS21-W-N ^{*1}		GT27/GT25		
	Series	RS-485	RS-232	Multi-drop connection	Ethernet	CC-Link IE TSN		
	FR-D70	0	×	×	×	×		
FR-D700 Series	FR-D700S	0	×	×	×	X		
	FR-D700W	Ō	×	X	×	X		
FR-F700PJ Series	FR-F7□0PJ (F)	Ō	X	×	Х	X		
	FR-E70	0	×	×	×	X		
-R-E700 Series	FR-E700S	0	×	×	×	X		
FR-E700 Selles	FR-E7□0W	0	×	×	×	×		
	FR-E700-NE *2 *3 *6	×	X	×	O *4	X		
FR-F700 Series	FR-F700	0	×	×	×	X		
FR-F700P Series	FR-F7□0P	0	×	×	×	X		
	FR-A800 *7 *8	0	×	×	O *5	O *5		
	FR-A802 *7 *8	0	×	×	O *5	O *5		
	FR-A806 *7 *8	0	×	×	O *5	O *5		
FR-A800 Series	FR-A800-GF *7	0	×	×	0	×		
	FR-A802-GF *7	0	×	×	0	×		
		NEW	×	×	0	0		
	FR-A802-GN *8	NEW	×	×	0	0		
	FR-A800-CRN *7	0	X	×	Х	X		
	FR-A802-CRN *7	0	X	X	Х	X		
	FR-A800-E-CRN *6	Ō	×	×	0	×		
	FR-A802-E-CRN *6	0	×	×	0	×		
	FR-A800-R2R*7	0	X	×	×	X		
	FR-A802-R2R*7	0	X	X	Х	X		
FR-A800 Plus Series	FR-A800-E-R2R *6	0	×	×	0	X		
	FR-A802-E-R2R *6	0	×	×	0	X		
	FR-A8D0-AWH	NEW	X	×	O *5	X		
	FR-A8□0-E-AWH *6	NEW	×	X	0	×		
	FR-A800-LC *7	NEW	×	X	O *5	×		
	FR-A8□0-E-LC *6	NEW O	X	×	Ō	X		
	FR-F800 *7 *8	- Ö	X	X	0 *5	0 *5		
	FR-F802 *7 *8	ŏ	×	×	0 *5	0 *5		
FR-F800 Series	FR-F806 *7 *8	ŏ	X	X	O *5	O *5		
	FR-F800-E *6	Ö	×	X	ŏ	×		
	FR-F802-E *6	ŏ	×	X	0	×		
	FR-E80	ŏ	×	X	×	×		
FR-E800 Series	NEW FR-E800-E *6 *8	×	×	X	0	0		
FR-B Series	FR-B-DDD	0	×	X	×	×		
R-B3 Series	FR-B3- (N) (H)	ŏ	×	X	×	×		
	MD-CX522-DDK	ŏ	×	X	×	×		
LIPM Series	MD-CX522-00K-A0	Ő	X	×	Х	X		

*1 *2 *3 *4

Except GT2103-PMBDS2 and GT2103-PMBLS. Use FR-E700-NE with SERIAL (serial No.) "*88****** or later. Use FR-E700-SC-NNE or FR-E700-SC-ENE with SERIAL (serial No.) **89****** or later.

Supports UDP only.

*5

A built-in option (FR-A8NCG) is required. Ethernet connection to inverters is supported via a programmable controller CPU. CC-Link IE Field Network connection to inverters is supported via a programmable controller CPU. CC-Link IE TSN connection to inverters is supported via a programmable controller CPU. *6 *7 *8

◆ Mitsubishi Electric servo amplifiers (general-purpose)

Series		Model name		GT27/GT25/GT23/	/GT21/GS21-W-N ^{*1}	
Series		Model name	RS-422	RS-232	Multi-drop connection	Ethernet
		MR-J5-□G	×	×	×	0
		MR-J5-□G-RJ	×	×	×	0
		MR-J5W2-□G	×	×	×	0
MELSERVO-J5 Series	NEW	MR-J5W3-□G	×	×	×	0
		MR-J5D1-DG4	×	×	×	0
		MR-J5D2-DG4	×	×	×	0
		MR-J5D3-□G4	×	×	×	0
MELSERVO-J4 Series		MR-J4-🗆 A	0	O *2	×	×
MELSERVO-J4 Selles		MR-J4-🗆 A-RJ	0	O *2	×	×
MELOEDICO IO O I	Discontinued	MR-J3-🗆 A	0	O *2	×	×
MELSERVO-J3 Series	Discontinued	MR-J3-DT	0	O *2	×	×
		MR-J2S-🗆 A	0	0	×	×
MELSERVO-J2-Super Series	Discontinued	MR-J2S-CP	0	0	×	×
		MR-J2S-CL	0	0	×	×
	Discontinued	MR-J2M-P8A	0	0	×	×
MELSERVO-J2M Series	Discontinued	MR-J2M-DU	0	0	×	×
MELSERVO-JET Series	NEW	MR-JET-DG	×	×	×	0
MELSERVO-JE Series		MR-JE-🗆 A	0	×	×	Х
WELSERVO-JE Selles		MR-JE-DC	X	Х	×	0

 *1
 Except GT2103-PMBLS.

 *2
 RS-422/232 interface converter or RS-422/232 conversion cable is required.

Connectable model list (GOT2000/GOT SIMPLE)

Mitsubishi Electric servo amplifiers (SSCNET III/H)

Servo amplifiers (SSCNET III/H) are connected to the GOT through a motion controller or Simple Motion module

			controller ammable				C	GT27/GT2	25/GT23/	GT21/GS	21-W-N)	6																				
			roller						Connect	tion type																						
Series	Model name	Model name	Simple Motion module	CPU type	Ethernet connection	Direct CPU connection (serial)		CC-Link IE TSN connection	Controller Network	CC-Link IE Field Network connection	CC-Link connection (intelligent device station) "1	CC-Link connection (via G4)	Bus connection		MELSECNET/10 connection ^{'2}	Multi-drop connection																
		-	RnMTCPU	0	×	0	×	0	0	0	×	×	×	×	×																	
			Q17nDSCPU Q170MSCPU	0	0	0	×	0	×	0	0	0	0	0	X																	
MELSERVO-J4	MR-J4-DB	RD77MS	RnCPU	0		0	×	0	0	0			0 ×	O X	X X																	
Series	MR-J4W2-DB	QD77MS *3	QnCPU		ô		X	0	0	0	ô	Ô	ô	ô	×																	
	MR-J4W3-DB	LD77MS	LnCPU	ŏ	ŏ	ŏ	X	×	ŏ	ŏ	ŏ	×	×	×	X																	
										WI 1-04W0-LD									FX5-40SSC-S	FX5CPU	Ŏ	Ŏ	×	×	×	×	Ŏ	×	×	×	×	×
		FX5-80SSC-S	FX5CPU	0	0	×	X	X	×	0	×	X	×	X	×																	
		RD77MS *4	RnCPU	0	×	0	0	0	0	0	×	X	×	X	×																	
MELSERVO-JE		QD77MS *5	QnCPU	0	0	0	×	0	0	0	0	0	0	0	×																	
MELSERVO-JE Series	MR-JE-DB	LD77MS *5	LnCPU	0	0	0	×	×	0	0	0	X	×	X	×																	
		FX5-40SSC-S FX5-80SSC-S		0	0	×	×	×	×	0	×	×	×	×	X X																	

*1 *2

Connect the GOT as a CC-Link intelligent device station. Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*3 Use a module with the upper five digits of the serial No. later than 15041. *4 Use a module with the firmware version 3 or later. *5

Use a module with the upper five digits of the serial No. later than 16102.

GT23, GT21 and GS21-W-N support connection using Ethernet connection, direct CPU connection (serial), serial communication connection, or CC-Link connection (via G4). *6

Mitsubishi Electric servo amplifiers (CC-Link IE Field Network)

Servo amplifiers (CC-Link IE Field Network) are connected to the GOT through a Simple Motion module or a master/local module.

			controller				G	T27/GT25	5/GT23/G	T21/GS2	1-W-N *6	6 *7				
			ammable roller		Connection type											
Series	Model name		Simple Motion module, or master/local module	CPU type	Ethernet connection	Direct CPU connection (serial)		connection	CC-Link IE Controller Network connection	Field Network	CC-Link connection (intelligent device station) ⁻¹	CC-Link connection (via G4)	Bus connection		MELSECNET/10 connection '2	Multi-drop connection
		RD77GF4*3	RnCPU	0	×	0	0	0	0	×	×	×	×	×	×	
		RD77GF8*3	RnCPU	0	×	0	0	0	0	×	X	X	×	×	×	
		RD77GF16*3	RnCPU	0	×	0	0	0	0	×	×	X	×	×	×	
		RD77GF32	RnCPU	0	×	0	0	0	0	×	X	×	×	×	×	
		QD77GF4*4	QnCPU	0	0	0	×	0	0	×	X	0	0	0	×	
MELSERVO-J4		QD77GF8*4	QnCPU	0	0	0	×	0	0	×	X	0	0	0	×	
Series	MR-J4-□GF-RJ	QD77GF16*4	QnCPU	0	0	0	×	0	0	×	×	0	0	0	×	
		RnENCPU	RnCPU	0	×	0	0	0	0	×	×	×	×	×	×	
		RJ71EN71	RnCPU	0	×	0	0	0	0	×	X	×	×	×	×	
		RJ71GF11-T2		0	×	0	0	0	0	×	X	X	X	×	Х	
		QJ71GF11-T2*5		0	0	0	X	0	0	×	×	0	0	0	X	
		LJ71GF11-T2*5	LnCPU	0	×	0	×	×	0	×	×	×	×	×	×	
*1 Connect th	e GOT as a CC-Link	*5	Use a modu	le with the u	pper five digi	ts of the seria	al No. later th	nan 14102. N	lotion mode i	s not						

Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed. *2 *3

To use the motion mode, use a module with the firmware version 1 or later; to use the I/O mode, use a module with the firmware version 2 or later. *4

To use the I/O mode, use a module with the upper five digits of the serial No. later than 18022.

*5 Use a module with the upper five digits of the serial No. later than 14102. Motion mode is not See a module with the upper live digits of the serial No. later that 14 roz. Motor models in supported. GT23 supports connection using Ethernet connection, direct CPU connection (serial), serial communication connection, or CC-Link connection (via G4). *6

*7 GT21 and GS21-W-N support connection using Ethernet connection. Not connectable from the GOT in the same network.

*8

Mitsubishi Electric servo amplifiers (CC-Link IE TSN) www.

Servo amplifiers (CC-Link IE TSN) are connected to the GOT through a Motion module.

		Program	mmable					GT27/GT	⁻ 25/GT23	/GT21/G	S21-W-N				
		cont	roller						Connect	ion type					
Series	Model name	Motion module *2	CPU type	Ethernet connection ^{*1}	Direct CPU connection (serial)	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	Field Network	CC-Link connection (intelligent device station)	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection	Multi-drop connection
		RD78G4		0	×	×	X	X	×	×	×	×	×	×	×
	MR-J5-□G-RJ F MR-J5W2-□G F MR-J5W3-□G F	RD78G8		0	×	Х	Х	Х	×	Х	×	×	×	×	×
		RD78G16	RnCPU	0	×	×	×	×	×	×	×	×	×	×	×
MELSERVO-J5			RnENCPU R12CCPU-V	0	×	Х	×	×	×	×	Х	×	×	×	×
Series		RD78G64		0	×	Х	×	×	×	×	×	×	×	×	×
Jenes		RD78GHV		0	×	Х	×	×	×	×	×	×	×	×	×
		RD78GHW		0	×	×	×	×	×	×	×	×	×	×	×
	MR-J5D3-□G4	FX5-40SSC-G		0	×	Х	×	×	×	×	×	×	×	×	×
		FX5-80SSC-G	FX5UC	0	×	Х	×	×	×	×	Х	×	×	×	×
		RD78G4		0	×	Х	Х	Х	×	Х	Х	X	×	×	×
		RD78G8		0	×	Х	×	×	×	×	Х	×	×	×	×
		RD78G16	RnCPU	0	×	Х	×	×	×	×	×	×	×	×	×
MELSERVO-		RD78G32	RnENCPU	0	×	Х	×	×	×	×	Х	×	×	×	×
JET Series	MR-JET-□G	RD78G64	R12CCPU-V	0	×	×	X	X	×	×	×	×	×	×	×
021 00100		RD78GHV		0	×	×	X	X	×	×	×	×	×	×	×
		RD78GHW		0	×	Х	X	Х	×	Х	×	×	×	×	×
		FX5-40SSC-G		0	×	×	×	×	×	×	×	×	×	×	×
		FX5-80SSC-G	FX5UC	0	×	×	X	×	×	Х	Х	×	×	×	X

Connect a servo amplifier to the built-in Ethernet port of a programmable controller CPU directly or via a hub.

When monitoring a serve amplifier through a Motion module, the available mode on the serve amplifier varies depending on the firmware version of the Motion module to use. For the details, please refer to the manual of the Motion module to use. *2

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Mitsubishi Electric robot controllers

						GT27/G	T25/GT23/	GT21/GS2 ⁻	I-W-N ^{*5}				
							Connect	tion type					
Series		Ethernet connection	Direct CPU connection (serial)	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	CC-Link connection (intelligent device station) *1	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection ^{'2}	Multi-drop connection
	CR750-Q (Q172DRCPU)	O *3	O *4	0	×	0	0	0	0	0	0	0	×
F Series	CR751-Q (Q172DRCPU)	O *3	O *4	0	×	0	0	0	0	0	0	0	×
	CR750-D	0	×	×	×	×	×	×	×	×	×	×	×
	CR751-D	0	×	×	×	×	×	×	×	×	×	×	×
SQ Series	CRnQ-700 (Q172DRCPU)	O *3 *8	O *4	O *10	×	O *12	0	O *16	0	0	0	0	×
SD Series	CRnD-700	0	×	×	×	×	×	×	х	×	×	×	×
	CR800-D	O *6	×	×	×	×	×	×	×	×	×	×	×
FR Series	CR800-R (R16RTCPU)	O *7	×	O *9	×	O *11	O *13	O *15	×	×	×	×	×
	CR800-Q (Q172DSRCPU)	O *8	O *4	O *10	×	O *12	O *14	O *16	0	0	0	0	×

Connect the GOT as a CC-Link intelligent device station.

Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to *2 the remote I/O network is not allowed.

The Display I/F of CRnQ-700, CR750/751-Q cannot be used. Ethernet connections can be established only via the Ethernet module (QJ71E71) or the built-in Ethernet port in the multiple CPU *3 system (QnUDÉ).

Access via the serial port (RS-232) of QCPU in the multiple CPU system since CRnQ-700, CR750/751-Q, and CR800-Q have no serial ports. *4

GT23, GT21 and GS21-W-N support connection using Ethernet connection, direct CPU connection (serial), serial communication connection, or CC-Link connection (via G4). Ethernet connections can be established to the built-in LAN port of CR800-D. *5

*6 *7

The communication module RJ71EN71 can be used. Use firmware version 12 or higher when building a redundant system. The communication module QJ71E71-100, QJ71E71-B5, QJ71E71-B2, or QJ71E71 can be used. *8

The communication module RJ71C24, RJ71C24, RJ71C24-R2, or RJ71C24-R4 can be used. Use firmware version 07 or higher when building a redundant system. *9

The communication module QJ71C24, QJ71C24-R2, QJ71C24N, QJ71C24N-R2, QJ71C24N-R4, QJ71CMO, or QJ71CMON can be used.

When using QJ71C24 or QJ71C24-R2, either CH1 or CH2 can be used for the function version A. Both CH1 and CH2 can be used together for the function version B or later. When using QJ71CMO or QJ71CMON, only CH2 can be connected.

The communication module RJ71GP21-SX can be used. Use firmware version 12 or higher when building a redundant system. *11

The communication module QJ71GP21-SX or QJ71GP21S-SX can be used. When the CC-Link *12 E Controller Network is in the extended mode, use a unit with the upper five digits of the serial No. 12052 or later. *13 The communication module RJ71GF11-T2, RJ71EN71, RD77GF4, RD77GF8, RD77GF16, or

- RD77GF32 can be used When using RJ71GF11-T2 or RJ71EN71, use firmware version 12 or higher to build a redundant
- system. *14 The communication module QJ71GF11-T2, QD77GF4, QD77GF8, or QD77GF16 can be used. *15 The communication module RJ61BT11 can be used. Use firmware version 4 or higher when building
- a redundant system. *16 The communication module QJ61BT11 or QJ61BT11N can be used.

Mitsubishi Electric CNCs

Series	GT27/GT25/GT23 ⁻⁶											
	Connection type											
	Ethernet connection	Direct CPU connection (serial)		CC-Link IE TSN connection	Controller Network	CC-Link IE Field Network connection	(intelligent device		Bus connection	MELSECNET/H connection		Multi-drop connection
CNC C80 (R16NCCPU-S1) *7	O *10	×	O *12	×	O *14	O *16	O *18	×	×	×	×	×
CNC C70 (Q173NCCPU) *3	O *11	O *4	O *13	×	O *15	O *17	O *19	0	0	0	0	×
CNC M700VS	×	×	×	×	×	×	O *5	×	×	×	×	×
CNC M70V	×	×	×	×	×	×	0 *5	×	×	×	×	×
CNC M800/M80	×	×	×	×	×	×	O *8 *9	×	×	×	×	×

Connect the GOT as a CC-Link intelligent device station

*2 Includes the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

- When using a CNC C70, the CNC monitor function, the CNC data I/O function, and the CNC machining program adit function can be used in bus connection and Ethernet connection (Display //F connection only). The above functions are supported by the GOT models of which resolution is SVGA or higher. *3
- Access via the serial port (RS-232) of QCPU in the multiple CPU system since CNC C70 has no *4 serial port.
- Only cyclic transmission can be used. (CC-Link unit FCU7-HN746 can be used) GT23 supports connection using Ethernet connection, direct CPU connection (serial), serial communication connection, or CC-Link connection (via G4). *5

*6

When using a CNC C80, the CNC monitor2 function can be used in Ethernet connection (Display I/F connection only). *7

Only cyclic transmission can be used. (CC-Link unit FCU8-EX561(WN561) can be used) *8 When using M8005/M80, connect FCU8-EX561(WN561) to the relay module for communication extension (FCU8-EX702, or FCU8-EX703). *9

*10 The communication module RJ71EN71 can be used. Use firmware version 12 or later when building a redundant system

*11 The communication module QJ71E71-100, QJ71E71-B5, QJ71E71-B2, or QJ71E71 can be used. *12 The communication module RJ71C24, RJ71C24-R2, or RJ71C24-R4 can be used. Use firmware version 07 or higher when building a redundant system. The communication module QJ71C24, QJ71C24-R2, QJ71C24N, QJ71C24N-R2, QJ71C24N-R4. *13

When using QJ71CMO or QJ71CMON can be used. When using QJ712C4 or QJ71C24. Hz, either CH1 or CH2 can be used for the function version A. Both CH1 and CH2 can be used together for the function version B or later. When using QJ71CMO or QJ71CMON, only CH2 can be connected.

*14 The communication module RJ71GP21-SX can be used. Use firmware version 12 or higher when Ine communication module QJ71GP21-SX can be used. Use initiate version 12 of higher when building a redundant system. The communication module QJ71GP21-SX or QJ71GP21S-SX can be used. When the CC-Link IE Controller Network is in the extended mode, use a unit with the upper five digits of the serial No. *15

12052 or later.

*16 The communication module RJ71GF11-T2, RJ71EN71, RD77GF4, RD77GF8, RD77GF16, or The communication module H37 rate 11-12, H37 IEN7 1, H37 rate, H37

- system. The communication module QJ71GF11-T2, QD77GF4, QD77GF8, or QD77GF16 can be used.
- *18 The communication module RJ61BT11 can be used. Use firmware version 4 or higher when building a redundant system.
- *19 The communication module QJ61BT11 or QJ61BT11N can be used.

Mitsubishi Electric power monitoring products

Series	Model name	GT27/GT25/GT23/GT21/GS21-W-N ⁺²							
Jenes	wodername	RS-485	RS-422	RS-232	Multi-drop connection				
Energy measuring unit	EMU4-BD1-MB	(2-wire type *1)	×	х	×				
EcoMonitorLight	EMU4-HD1-MB	(2-wire type *1)	×	×	×				
Energy measuring unit EcoMonitorPlus	EMU4-BM1-MB	(2-wire type *1)	×	×	×				
	EMU4-HM1-MB	(2-wire type *1)	×	×	×				
	EMU4-LG1-MB	(2-wire type *1)	×	×	×				
Electronic multi-measuring instrument	ME110SSR-MB	(2-wire type *1)	×	×	×				
	ME96NSR-MB	(2-wire type *1)	×	×	×				

Only MODBUS®/RTU connection is supported. Use the MODBUS®/RTU master communication driver *1

Except GT2103-PMBDS2 and GT2103-PMBLS

Connectable model list (GOT2000/GOT SIMPLE)

■ Applicable GOT models for each connection type

The GOT to be used differs depending on the connection type.

Model	Connection type	Applicable model						
	RS-232							
	RS-422/485	All models (Built-in interfaces of the GOT can be used.)						
	Ethernet							
	CC-Link (via G4)							
GT27/GT25	Other than above	GT27 all models GT25 models excluding some models (By mounting communication units on the GOT, bus connection, network connection, and others can be used. No communication units can be mounted on GT2512-WXTBD, GT2512-WXTSD, GT2510-WXTBD, GT2501-WXTSD, GT2507-WTBD, GT2507-WTSD, GT2507-WTSD, GT2505-VTBD, GT2506HS-VTBD, and GT2505HS-VTBD.)						
	RS-232							
OTOD	RS-422/485	All models						
G123	Ethernet	(Built-in interfaces of the GOT can be used.)						
	CC-Link (via G4)							
	RS-232	GT2107-WTBD GT2103-PMBDS2 GT2107-WTSD GS2110-WTBD-N GT2104-RTBD GS2107-WTBD-N GT2103-PMBDS GS2107-WTBD-N						
GT21/GS21-W-N	RS-422/485	GT2107-WTBD GT2103-PMBDS GT2107-WTSD GT2103-PMBLS '1 GT2104-RTBD GS2110-WTBD-N GT2103-PMBD GS2107-WTBD-N						
	Ethernet	GT2107-WTBD GT2103-PMBD GT2107-WTSD GS2110-WTBD-N GT2104-RTBD GS2107-WTBD-N						
	CC-Link (via G4)	GT2107-WTBD GT2103-PMBDS GT2107-WTSD GT2103-PMBDS2 GT2104-RTBD GS2110-WTBD-N GT2103-PMBD GS2107-WTBD-N						

*1 Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

♦ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

		GT27/GT25/GT23/					GT21/GS21-W-N *1			
Manufacturer		Model name		Ethernet		t CPU		EthorNot/I		
Iviali	ulacturei	Model name		connection	connection (serial)				EtherNet/IF	
					RS-422	RS-232	RS-422	RS-232		
	SYSMAC CJ1	CJ1H CJ1G	CJ1M	0	×	0	(⊃ *4	×	
	SYSMAC CJ2	CJ2H		0	×	0		⊃ *4	×	
		CJ2M	CPM1A	0	×	O *5			×	
	SYSMAC CPM	CPM1 CPM2A	CPMIA	×	×	× O			X X	
		CPM2C		×	×	×	×	Ő	×	
	SYSMAC CQM1 SYSMAC CQM1H	CQM1 CQM1H		×	×	0 *8		×	×	
	SYSMAC CP1	CP1H	CP1L	×	×	×	0	0	×	
		CP1E (N type)		×	×	O *6			×	
	SYSMAC CP2 NEW	CP2E CS1H	CS1D *3	0	×	0			×	
OMRON Corporation	SYSMAC CS1	CS1G		0	×	0	0	0	×	
	SYSMAC CVM1/CV *9	CVM1-CPU11-V CVM1-CPU01-V CV500-CPU01-V	CV1000-CPU01-V□ CV2000-CPU01-V□	×	0	⊃ *4	×	×	×	
	SYSMAC C200HS	C200HS		×	×	×	0	0	×	
	SYSMAC C200H SYSMAC C1000H	C200H C1000H		×	×	×			×	
	SYSMAC C2000H	C2000H		×	×	×			×	
	SYSMAC α	C200HX C200HG	C200HE	×	×	0	0	0	×	
	NJ	NJ501-000	NJ301-□□□	×	×	×	×	×	0	
	NX	NX1P2-000000	NX701-000	×	×	×	×	×	0	
	KV-8000 NEW	NX102-000		0	0	0	0	x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	×	
	KV-7000	KV-7300		0	0	0			×	
	KV-5000	KV-7500 KV-5000	KV-5500	0	×	×			×	
KEYENCE CORPORATION	KV-3000	KV-3000	NV-0000	0	×	×			× ×	
LEVENCE CORPORATION	KV-1000	KV-1000		0	×	0	0	0	×	
	KV-700	KV-700 KV-N14		0 ×	×	0			X X	
	KV Nano	KV-N2400 KV-N6000	KV-N40 KV-NC32T	0	×	0			×	
KOYO ELECTRONICS INDUSTRIES CO., LTD.	DirectLOGIC 05 Series	D0-05AA D0-05AD D0-05AR	D0-05DD D0-05DD-D D0-05DR	×	×	0	0	0	×	
	DirectLOGIC 06 Series	D0-05DA D0-06DD1 D0-06DD2 D0-06DR D0-06DA	D0-05DR-D D0-06AA D0-06DD1-D D0-06DD2-D D0-06DR-D	×	0	0	0	0	×	
2	DirectLOGIC	D0-06AR D2-240			~				×	
	205 Series	D2-240 D2-250-1	D2-260	×	Ô		0		×	
	KOSTAC SU Series	SU-5E SU-6B	SU-5M	×	0	0	0	0	×	
	PZ Series	PZ3	30-01	×	0	0	×	×	×	
Sharp Corporation		JW-21CU JW-31CUH JW-22CU	JW-50CUH	×	×	×	0	×	×	
2		JW-32CUH JW-33CUH	JW-100CUH JW-100CU	×			0	×	×	
		Z-512J PC2JC-CPU	PC2J16PR-CPU						×	
		PC2J16P-CPU PC2J-CPU	DOD ID ODU	×	×	0.0	0	0.0	×	
ITEKT CORPORATION	TOYOPUC	PC2JS-CPU		×	×	×	0	O *10	×	
2	Series	PC3JG-P-CPU PC3JD-CPU	D0-06AA D0-06DD1-D D0-06DD2-D D0-06DP-D X O O O C X X X O O O C D0-06DP-D D0-06DP-D X X O O C C D2-260 X O O O C C C SU-5M SU-6M X O O C C C C JW-50CUH X Q O X X O A JW-70CUH X X X O A X A JW-100CUH X Q Y4 X A A PC2J16PR-CPU X X O 10 C C PC2J16PR-CPU X X O 10 C C C PC3JB-C-CPU X X O 10 C C C PC3JL-CPU X X O 10 C C <td></td> <td>×</td>		×					
		PC3J-CPU PC3J-CPU					X O X X X X X X O O O O X X X X O O X X O O X X O O X X X X X X X X X X X X X X O O O <td>X X</td>	X X		
		PC10G-CPU NEW		×	0	O *10	1	rial nication ection RS-232 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 7 0 4 0 7 0	×	
	PROSEC	T2 (PU224) T2E						O O	×	
	T Series	T3			0				×	
OSHIBA CORPORATION	PROSEC V Series	model 2000 (S2E) model 2000 (S2T)	model 2000 (S2) model 3000 (S3)	×	0	×	×	×	×	
	Unified Controller nv Series	PU811 PUM11	PUM14	0	×	×			×	
SHIBAURA MACHINE CO.,	TCmini Series	PUM12 TC3-01 TC3-02	TC6-00 TC8-00	×	×	0			×	
TD.		TC5-02	TC5-03	×	O *20	×			×	
	Robot controller	TS2000 EHV-CPU08	TS2100 EHV-CPU64	×	×	0	×	×	×	
	EHV Series NEW	EHV-CPU16 EHV-CPU32	EHV-CPU128	0	×	×	×	×	×	
	MICRO-EHV Series NEW	MVH-A40000 MVH-D40000 H-300	MVH-A64000 MVH-D64000 H-1002	0	×	×	×	×	×	
IITACHI Industrial	Large-sized H Series	H-302 H-700 H-702	H-2000 H-2002 H-4010	×	×	0	(⊃ *4	×	
Equipment Systems Co., .td. 2	H-200 to 252 Series	H-200 H-250 H-252	H-252B H-252C	×	×	0	×	X Q X X X X Q Q Q <td>×</td>	×	
	H Series board type	HL-40DR HL-64DR H-20DR H-20DT H-28DR	H-28DT H-40DR H-40DT H-64DR H-64DT	×	×	0	×	×	×	
	EH-150 Series	EH-CPU104 EH-CPU208	EH-CPU316 EH-CPU516	×	×	0	×		×	

Connectable model list (GOT2000/GOT SIMPLE)

♦ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

	bishi programma			GT27/GT25/GT23/GT21/GS21-W-N ¹							
					Direct CPU		Serial				
Man	lufacturer	М	odel name	Ethernet		on (serial)			EtherNet/IP		
				connection	RS-422	RS-232	RS-422		connection		
	S10V	LQP510		×	0	X	0	0	×		
		LQP520		×	×	×	0	0	×		
Hitachi Ltd. *2	S10VE NEW	LQP600		0	×	×	×	×	×		
	S10mini	LQP000 LQP010 LQP011	LQP120 LQP800	×	×	×	0	0	×		
FUJI ELECTRIC CO., LTD.	MICREX-F	F55 F120S	F70 F15⊡S	×	×	×	0	Serial nunication RS-232 O X X O O C C C C C C C C C C C C C C C	×		
*2		F140S SPH200	SPH300								
	MICREX-SX SPH	SPH2000 FP0B	SPH3000 FP1-C24C	0	×	0	0	Image: Project in the image	×		
		FP0-C16CT FP0-C32CT	FP1-C40C	×	×	0	×	×	×		
		FP2 FP2SH FP3	FP5 FP10 (S) FP10SH	×	×	0	×	0	×		
Panasonic Industrial Devices	SUNX Co., Ltd.	FP-M (C20TC) FP-M (C32TC)	FP ∑	×	×	0	×	×	×		
		FP-X		×	×	0	0	0	×		
		FP7		×	×	0	0	0	×		
		FPOH	NEW	-	×	0			×		
		FP-XH GL120	GL130	×	O X	0 0 *2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	×			
		GL60S	GL70H	×	×	×	1				
		GL60H									
		CP-9200SH CP-9300MS		0 ×	×	× 0 *2			×		
		MP920		0	×	02			×		
		MP930		×	×	0			×		
YASKAWA Electric Corporat	ion	MP940		×	0	0			×		
		PROGIC-8		×	×	0*2			×		
		CP-9200 (H) CP-312		× 0	×	× 0 2			-		
		CP-317		0	×	×			×		
		MP2200	MP2300S		×	×					
		MP2300		0							
	54500	MP3200	MP3300	0	×	×		rial I inication I RS-232 O X O X O X O X O X O X O X O X O X O X O X X O O X </td <td>×</td>	×		
	F3SP05 F3SP06 O X O O F3SP10 X X X X X X F3SP20 F3SP30 X X X X O F3SP26 F3SP36 O X X O O F3SP26 F3SP58 F3SP58 F3SP58 O X O O F3SP26 F3SP59 F3SP59 O X O O	FA500 E3SP05	E3SP08	×	×	×		7	-		
									×		
		F3SP20	F3SP30						×		
				0	×	×	0	0	×		
Yokogawa Electric Corporation		0	0	×							
*2											
		F3SP66 F3SP22-0S	F3SP67	0 ×	×	0					
		F3SP71-4N		Ô	×	0 ×			×		
	FA-M3V	F3SP71-4S		0	×	×			×		
		F3SP76-7S		0	×	×	×		×		
	STARDOM	NFCP100	NFJT100	O *14	×	0	×	×	×		
	SLC500 Series	SLC500-20 SLC500-30 SLC500-40	SLC5/01 SLC5/02	×	×	○ *2	×	×	×		
		SLC5/03 SLC5/04	SLC5/05	×	×	0	×	×	×		
	MicroLogix1000 Series (digital CPU) *11 *12 *13	1761-L10BWA 1761-L10BWB 1761-L16AWA 1761-L16BWA 1761-L16BWB 1761-L16BBB	1761-L32AAA 1761-L32AWA 1761-L32BWA 1761-L32BWB 1761-L32BBB	O *15	×	0	×	×	×		
	MicroLogix1000 Series (analog CPU) *11	1761-L20AWA-5A 1761-L20BWA-5A	1761-L20BWB-5A	O *15	×	0	×	×	×		
	MicroLogix1100 Series *11 MicroLogix1200 Series *11	1763-L16BWA		O *15	×	0	×		×		
	MicroLogix1200 Series *11 MicroLogix1400 Series *11	1762-L24BWA 1766-L32AWA		O *15 O *15	×	0	×		×		
	MicroLogix1500 Series *11	1764-LSP	1764-LRP	O *15	×	0	×		×		
		1756-L	1756-L1M2	O *15	×	O *2	×		O *21		
Allen-Bradley (Rockwell Automation, Inc.)		1756-L1M1 1756-L55M12 1756-L55M13	1756-L1M3 1756-L55M22 1756-L55M23			0 *2			O *21		
		1756-L55M14 1756-L55M16 1756-L61	1756-L55M24 1756-L63	O *15	×		×				
	ControlLogix Series	1756-L62	1756-L64	O *15	×	O *2	×		O *21		
			1750 1 74	O *15	×	×	×	×	O *21		
		1756-L72 1756-L73	1756-L74 1756-L75	O *15	×	×	×	×	O *21		
		1756-L82E 1756-L83E	1756-L84E 1756-L85E	O *15	×	×	×	×	O *21		
	CompactLogix	1769-L31 1769-L32C 1769-L35CR		×	×	O *2	×	×	×		
						r			1		
	Series	1769-L32E 1769-L35E 1794-L33		O *15	×	O *2	×	×	O *21		

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

					GT27/GT25/GT23/GT21/GS21-W-N *1						
Mar	nufacturer	Moc	Ethernet connection	Connection (senal)		commu	rial nication ection	EtherNet/IP connection			
					RS-422	RS-232	RS-422	RS-232			
	Series 90-30	IC693CPU311 IC693CPU313 IC693CPU323		×	×	×	0	0	×		
	Johes 30-30	IC693CPU350 IC693CPU360 IC693CPU363	IC693CPU366 IC693CPU367 IC693CPU374	×	0	×	0	0	×		
GE Intelligent	Series 90-70	IC697CGR772 IC697CGR935 IC697CPW790 IC697CPU731 IC697CPU780 IC697CPU788 IC697CPU788	IC697CPX772 IC697CPX782 IC697CPX928 IC697CPX928	×	×	×	0	0	×		
Platforms, Inc. *2		IC200UAA003		×	0	0	×	×	×		
		IC200UAR014 IC200UDD104 IC200UDD112	IC200UDR001 IC200UDR002 IC200UDR003	×	×	0	×	×	×		
	VersaMax Micro	IC200UAA007 IC200UAL004 IC200UAL005 IC200UAL006 IC200UAR028 IC200UDR064 IC200UDD164 IC200UDD110	IC200UDD120 IC200UDD212 IC200UDR005 IC200UDR006 IC200UDR010 IC200UDR064 IC200UDR064 IC200UDR164	×	0	0	×	×	×		
	K300S	K4P-15AS		X	×	×	0	0	×		
	K200S	K3P-07□S		×	×	×	Õ	0	×		
	K120S	K7M-DOOOU		X	×	0	Õ	Ő	×		
LS Industrial Systems Co.,	K80S	K7M-DDDDS (/DC)		X	×	Ö	Õ	0	×		
Ltd.	XGT NEW	XGK-CPUU XGK-CPUH XGK-CPUA XGK-CPUS	XGK-CPUE XGK-CPUUN XGK-CPUHN XGK-CPUSN	0	×	×	×	×	×		
	Nexgenie 2000 PLC	P2210 P2211	P2213A P2214	×	0	0	×	×	×		
Mitsubishi Electric India Pvt. Ltd.	Nexgenie 1000 PLC	NG14RL NG14RN NG16ADL NG16ADN	NG16DL NG16DN	×	0	0	×	×	×		
		Twido Series		O *14	×	×	×	×	×		
Schneider Electric SA		Modicon Premium Series		O *14	×	×	×	×	X		
		Modicon Quantum Series		O *14	×	×	×	×	×		
SICK AG	Flexi Soft Series	FX3-CPU000000 FX3-CPU130002	FX3-CPU320002	×	×	0	×	×	×		
		SIMATIC S7-200 Series		O *17	×	0	×	×	×		
		SIMATIC S7-200 SMART S	eries NE	<u> </u>	×	O *22	×	×	×		
Siemens AG		SIMATIC S7-300 Series		O *19	×	0	×	×	×		
		SIMATIC S7-400 Series		O *19	×	0	×	×	×		
		SIMATIC S7-1200 Series		O *17	×	×	×	×	×		
		SIMATIC S7-1500 Series	NE		×	×	×	×	×		
SMC Corporation		LECA6	LECP6	×	O *18	×	×	×	×		

Select an appropriate GT21 model depending on the connection type. For the details of applicable GOT models for each connection type, please refer to page 186. GT21 and GS21-W-N cannot be connected. *1

*2

Connectable only when a single communication unit is used in a single CPU system. Either RS-422 or RS-232 can be selected.

Only CJ2M-CPU1 acn be connected. Connection is not available with the E type CP1E.

*3 *4 *5 *6 *7 *8 *9 For CP1E (N type) CPU modules with 20 or less I/O points, only the direct CPU connection (serial) is available. The COM1-CPU11 is unable to communicate with GOT since the COM1-CPU11 has no RS-232 interface. SYSMAC CVM1/CV can be used with a CPU version 1 or later.

*10 An RS-232/RS-422 interface converter (TXU-2051) is required. *11 Connection to DH485 network is available via adapter (1770-KF3).

*12 DH485 connection can be used with a CPU in the series C or later. (DH485 protocol is not supported by a CPU in the series B or earlier.)

*13 One-to-one connection is supported by a CPU in the series D or later. (DF1 half duplex is not supported by a CPU in the series C or earlier.)
*14 Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP master communication

driver.

driver. *15 EtherNet/IP (PCCC protocol) is supported. *16 Use EtherNet/IP Tag. *17 Only OP communication can be used in Ethernet connection of the S7-200 Series, the S7-200 SMART Series, the S7-1200 Series, and the S7-1500 Series. *18 Only MODBUS®/RTU connection is supported. Use the MODBUS®/RTU master communication driver.

*19 Only OP communication can be used on GT21 and GS21-W-N.
 *20 Only RS-485 is supported.

*21 GT21 and GS21-W-N do not support EtherNet/IP Tag.
*22 GT27, GT25, and GT23 cannot be connected.

Modules usable when connected with non-Mitsubishi controllers in serial communication connection, Ethernet connection, EtherNet/IP connection

Ма	nufacturer	Ethernet	RS-422	RS-232	EtherNet/IP
OMRON Corporation	Host link unit Communication unit Communication board Ethernet module	CJ1W-EIP21 CJ1W-ETN21 CS1D-ETN21D CS1W-EIP21 CS1W-EIP21 CS1W-ETN21	CJ1W-SCU31-V1 CJ1W-SCU41(-V1) CP1W-CIF11 CP1W-CIF12 CS1W-SCB41(-V1) C200H-LK202-V1 C200HW-COM03 C200HW-COM06 C500-LK201-V1	CJ1W-SCU21(-V1) CJ1W-SCU41(-V1) CPM1-CJF01 CPM2-CJF01 CPM2-CJF01 CGM1-CJF02 CGM1-SCB41 CS1W-SCB41(-V1) CS1W-SCB41(-V1) CS1W-SCB41(-V1) CS00-W-COM05 C200HW-COM05 C200HW-COM06 C200HW-COM06 C200HW-COM06 C200HW-COM06	CJ1W-EIP21
KEYENCE CORPORATION	Multi-communication unit	KV-LE20V KV-LE21V KV-EP21V KV-NC1EP *3	KV-L20 KV-L20R KV-L20V KV-NC20L KV-N1L	KV-L20 KV-L20R KV-L20V KV-NC10L KV-NC20L KV-N10L	-
KOYO ELECTRONICS INDUSTRIES CO., LTD.	Data communications module Host link module	_	D0-DCM D2-DCM U-01DM	D0-DCM D2-DCM U-01DM	_

Connectable model list (GOT2000/GOT SIMPLE)

Ma	nufacturer	Ethernet	RS-422	RS-232	EtherNet/IP
Sharp Corporation	Link unit	_	JW-10CM JW-21CM ZW-10CM	_	_
JTEKT CORPORATION	Link unit	_	THU-2755 THU-2927 THU-5139 TCU-6903 NEW	-	_
litachi Industrial Equipment Systems Co., Ltd.	Intelligent serial port module Network module	EH-ETH/ETH2 NEW EH-ELK NEW EH-ORML NEW EH-R2LH/OR2LH NEW	COMM-H COMM-2H	COMM-H COMM-2H	_
Hitachi, Ltd.	Communication module	LQE260-E NEW	LQE165 LQE565	LQE060 LQE160 LQE560	-
	RS-232C interface card		-	NV1L-RS2	
	RS-232C/485 interface capsule		FFK120A-C10	FFK120A-C10	
FUJI ELECTRIC CO., LTD.	General-purpose interface module Communication module	-	FFU120B FFU120B NC1L-RS4 NC1L-RS2 NP1L-RS1 NP1L-RS1 NP1L-RS2 NP1L-RS4 NP1L-RS3 NP1L-RS5		_
	Ethernet interface module	NP1L-ET1	_	_	
Panasonic Industrial Devices SUNX Co., Ltd.	Computer communication unit Communication cassette	-	AFPX-COM3 AFP7CCM1 AFP7CCM2 AFP7CCS1M1	AFP6801 AFP2602 AFPX-COM1 AFPX-COM4 AFP2-462 AFP2462 AFP3462 AFP3462 AFP5462 AFP7CCS1 AFP7CCS1 AFP7CCS1 AFP7CCS1 AFP0HCCS1 AFP0HCCS2 AFP0HCCS1M1	-
ASKAWA Electric Corporation	MEMOBUS module Communication module	CP-218IF 218IF 218IF-01 218IF-01 218IF-02 *1 218TXB	JAMSC-IF612 JAMSC-120NOM27100 217IF 217IF-01	CP-217IF JAMSC-IF60 JAMSC-IF61 217IF 217IF-01 218IF-01 218IF-02 *1	_
Yokogawa Electric Corporation	PC link module Ethernet interface module	F3LE01-5T F3LE11-0T F3LE12-0T	F3LC11-2N F3LC11-2F LC02-0N	F3LC01-1N F3LC11-1F F3LC11-1N F3LC12-1F LC01-0N LC02-0N	_
Allen-Bradley (Rockwell Automation, Inc.)	EtherNet/IP communication module	1756-ENBT 1756-ENET 1756-EN2T 1756-EN2TR 1756-EN3TR 1756-EN3TR 1756-EN2TSC 1761-NET-ENI	-	-	1756-ENBT 1756-ENET ⁺² 1756-EN2T 1756-EN2TR 1756-EN3TR 1756-EN3TR 1756-EN2TSC 1788-ENBT/A
GE Intelligent Platforms, Inc.	Communication module	-	IC693CMM311 IC697CMM711	IC693CMM311 IC697CMM711	-
	Cnet I/F unit	-	G7L-CUEC	G7L-CUEB	_
S Industrial Systems Co., Ltd.	Cnet I/F module	_	G4L-CUEA G6L-CUEC	G4L-CUEA G6L-CUEB	_
	Ethernet module NEW	XGL-EFMT(B)	-	-	_
Schneider Electric SA	Ethernet module	TSX ETY 4102 TSX ETY 5102 140 NOE 771 00 140 NOE 771 10 140 NWM 100 00	_	_	_
Siemens AG	Ethernet module	CP 243-1 CP 243-1 CP 343-1 CP 343-1 CP 343-1 Advanced CP 343-1 CP 343-1 CP 343-1 Lean CP 343-1 Lean CP 443-1 CP 343-1 CP	_	_	_

Modules usable when connected with non-Mitsubishi controllers in serial communication connection. Ethernet connection. EtherNet/IP connection

*1 When connecting MP2200, MP2300, or MP2300S using Ethernet connection or RS-232 connection, use a CPU of the software version 2.60 or later.

*2

Use an EtherNet/IP communication module 1756-ENET of the version B or later. When using KV-24□, 40□, or 60□, a connection conversion unit (KV-N1) is required. *3

♦ Servo amplifiers

Manufacturer	Model name	GT27/GT25/GT23			
Wanulacturer	Model hame	RS-485	RS-232		
	MINAS A4 Series	0	0		
Panasonic Corporation	MINAS A4F Series	0	0		
Panasonic Corporation	MINAS A4L Series	0	0		
	MINAS A5 Series	0	0		

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Robot controllers

Ма	nufacturer	-	Model name		GT27/GT2 RS-422	25/GT23/GT21/G RS-232	S21-W-N Ethernet
	ROBO CYLINDER RCA Series dedicated	ASEL	ASEL		×	0	×
	program controller ROBO CYLINDER RCP2 Series dedicated program controller	PSEL	PSEL		×	0	×
	Single-axis robot/linear servo/ ROBO CYLINDER RCS2	SSEL	SSEL		×	0	×
AI Corporation X-SEL controller	program controller Single-axis, multi-axis robot controller	X-SEL	XSEL-J XSEL-KT XSEL-K XSEL-P XSEL-KE XSEL-Q XSEL-KET		×	0	×
	SCARA robot controller	X-SEL	XSEL-JX XSEL-KTX XSEL-KX	XSEL-PX XSEL-QX	×	0	×
	RCA2/RCA Series positioner controller		ACON-C ACON-CG	ACON-PL ACON-PO			
	RCA2/RCA Series positioner controller supporting battery-less absolute encoder NEW	ACON	ACON-CY ACON-CB	ACON-SE	0	0	×
	ERC2 built-in positioner controller	ERC2	ERC2		0	0	×
IAI Corporation	RCP3/RCP2 Series positioner controller	PCON	PCON-C PCON-CA *1 PCON-CF PCON-CFA *1 PCON-CG	PCON-CY PCON-PL PCON-PO PCON-SE	0	0	×
ROBO CYLINDER	RCP6/RCP5/RCP4 <supporting PowerCon> / RCP3/RCP2 Series positioner controller NEW</supporting 		PCON-CB	PCON-CFB			
	RCS2 Series		SCON-C				
	positioner controller RCS4/RCS3/RCS2 Series positioner controller supporting battery-less absolute encoder	SCON	SCON-CA SCON-CB		0	0	×
	battery-less absolute encoder NEW RCP2/3/4/5/6, RCA/2, RCD, RCL Series unit-connecting position controller NEW	RCON	RCON-GW(GWG)-CC RCON-GW(GWG)-CIE RCON-GW(GWG)-DV	RCON-GW(GWG)-EP RCON-GW(GWG)-PR RCON-GW(GWG)-PRT	0	0	×
	Slider		EC-S3 EC-S4	EC-S6 EC-S7	0	0	×
	Slider (side-mounted motor type)		EC-S6DR EC-S7DR		0	0	×
	High-rigidity slider		EC-S6□AH		0	0	×
	High-rigidity slider		EC-S7□AH EC-S6□AHR		0	0	×
	(side-mounted motor type)		EC-S7□AHR EC-R6				×
	Rod		EC-R7 EC-RP4	EC-GD4	0	0	
	Mini rod		EC-GS4 EC-RR3	EC-RR6	0	0	×
	Radial cylinder Radial cylinder		EC-RR4 EC-RR6□R	EC-RR7	0	0	×
	(side-mounted motor type)		EC-RR7□R		0	0	×
	High-rigidity radial slider		EC-RR6□AH EC-RR7□AH		0	0	×
	High-rigidity radial slider (side-mounted motor type)		EC-RR6□AHR EC-RR7□AHR		0	0	×
	Mini table		EC-TC4 EC-TW4		0	0	×
	Rod		EC-R6⊟W EC-R7⊟W		0	0	×
IAI Corporation ELECYLINDER *2 NEW	Radial cylinder	EC *3	EC-RR6□W	EC-RR7DW	0	0	х
	Belt driven type		EC-B6 EC-B6U	EC-B7 EC-B7U	0	0	×
	Slider (side-mounted motor type)		EC-S3R EC-S4R		0	0	×
	Radial cylinder (side-mounted motor type)		EC-RR3R		0	0	×
	Radial cylinder (side-mounted motor type)		EC-RR4R		0	0	×
	Stopper cylinder		EC-ST15		0	0	×
	Rotary		EC-RTC9 EC-S13	EC-RTC12 EC-S15	0	0	×
	Slider		EC-S13X	EC-S15X	0	0	×
	High-rigidity radial slider Wide slider		EC-RR6XDAH EC-WS10	EC-RR7X□AH EC-WS12	0	0	×
	Mini rod		EC-GD5	EC-RP5	0	0	×
	Mini table		EC-TC5	EC-TW5	0	0	×
	Slider High-rigidity slider		EC-S6□CR EC-S6AH□CR	EC-S7DCR EC-S7AHDCR	0	0	×
	High-rigidity slider Slider		EC-S3□CR	LU-DIANLUK	0	0	×
	Gripper		EC-S4DCR EC-GRB8M EC-GRB13M		0	0	×
			EC-GRB10M EC-S10	EC-GRB13L EC-S10X	0	0	×
	Slider						
SHIBAURA MACHINE CO., LTD.	Slider SCARA robot controller	TS2000 TS2100			×	0	×

 *1
 Use PCON-CA or PCON-CFA of V0002 or later.

 *2
 GT21 and GS21-W-N cannot be connected.

 *3
 Sample screen data are required for connection with EC series. To obtain sample screen data, contact your local sales office.

Connectable model list (GOT2000/GOT SIMPLE)

◆ Temperature controllers/Other control equipment

Manufacturer		Model	name			3/GT21/GS21-W-N		
				RS-485	RS-422	RS-232	Ethernet	
	AHC2001	AHC2001		(4-wire type *11)	×	0	×	
	AUR	AUR350C	AUR450C	(2-wire type *1)	×	O *2	×	
	CMC	CMC10B		(4-wire type)	×	O *2	×	
	CMF	CMF015		(2-wire type *1)	×	O *2	×	
	Civii	CMF050		(2-wire type *1/4-wire type)	×	O *2	×	
	CML	CML		(2-wire type *1/4-wire type)	×	O *2	×	
	CMS	CMS		(2-wire type *1)	×	O *2	×	
		DMC10		(2-wire type *1)	×	O *2	×	
	DMC	DMC50		(2-wire type *1/4-wire type)	×	×	×	
	MPC	MPC		(2-wire type *1)	×	O *2	×	
	MQV	MQV		(2-wire type *1)	×	0 *2	×	
	MVF	MVF		(2-wire type *1)	×	0 *2	×	
		NX-D15	NX-D35					
zbil Corporation		NX-D25		(2-wire type *1 *9)	×	×	O *10	
	NX	NX-DX1	NX-DY1	(2-wire type *1 *9)	×	×	O *10	
		NX-DX2	NX-DY2		^	×	0.0	
		NX-S01	NX-S12	(2-wire type *1 *9)	×	×	O *10	
		NX-S11	NX-S21	01				
		SDC15 SDC25	SDC35	○ (2) using traps *1)	×	0.12	~	
		SDC25	SDC36	○ (2-wire type *1)	~	O *2	×	
		SDC45	SDC46	(2-wire type *1)	×	O *2	×	
	SDC	SDC20	SDC40A	0(2		0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		SDC21	SDC40B	O /2 wire tree 1/4 wire tree	~	0 *2	~	
		SDC30	SDC40G	(2-wire type "1/4-wire type)	×	○ *2	×	
		SDC31						
	PBZ	PBC201-VN2		(2-wire type *1/4-wire type)	×	O *2	Х	
	RX	RX		(2-wire type *1)	×	O *2	×	
	INPANEL NEO	E5ZN		(2-wire type *1)	×	O *2	×	
		E5AN	E5CN	(2-wire type *1)	×	O *2	×	
		E5EN	E5GN	() (2 mile ()pe)	~	U	~	
	THERMAC NEO	E5AN-H E5AN-HT	E5EN-H E5EN-HT	(2-wire type *1)	0	O *2	×	
						0.10		
		E5CN-H	E5CN-HT	(2-wire type *1)	×	O *2	×	
MRON Corporation		E5AC E5CC	E5EC E5GC	○ (2-wire type *1)	×	O *2	×	
		E5DC	2000	○ (2-wire type *1)	^	0 -	~	
	E5□C Series	E5CC-B	E5EC-B	(2-wire type *1)	×	O *2	×	
		E5AC-T	E5EC-T					
		E5CC-T	2020 1	(2-wire type *1)	×	O *2	×	
	E5⊡D Series	E5CD	E5ED	○ (2 wire type *1)	×	O *2	×	
	EDLID Series	E5CD-B	E5ED-B	(2-wire type *1)	×	0 2	×	
	THERMAC R	E5AR	E5ER	(2-wire type *1)	×	O *2	×	
		E5AR-T	E5ER-T	(2-wire type *1)				
	ACS-13A Series	ACS-13A-□/□,□,C5 *8			×	O *2	×	
	DCL-33A Series	DCL-33A-0/M,0,C5 *8		(2-wire type *1)	×	O *2	×	
		JCD-33A-0/00,C5 *8						
	JC Series	JCR-33A-0/00,C5 *8			×	O *2	×	
		JCS-33A-0/00,C5 *8						
	JCM-33A Series	JCM-33A-0/0,0,C5 *8		(2-wire type *1)	×	O *2	×	
	FCR-100 Series	FCR-13A-□/M,C	FCR-15A-D/M,C	×	×	O *4	×	
	FCD-100 Series	FCD-13A-□/M,C	FCD-15A-□/M,C	×	×	O *4	×	
	FCR-23A Series	FCR-23A-□/M,C		×	×	O *4	×	
hinko Technos Co., Ltd.		PC935-□/M,C		×		_		
2		PC935-□/M,C5 *8		(2-wire type *1)				
	PC-900 Series	PC955-□/M,C		×	×	O *4	×	
		PC955-□/M,C5 *8		(2-wire type *1)				
	DOD 000 Carias					0.*4		
	PCD-300 Series	PCD-33A-□/M,C5 *8		(2-wire type *1)	×	O *4	×	
	FIR Series	FIR-201-M,C		×	×	O *4	×	
	JIR-301-M Series	JIR-301-M□,C5 *8	100 111 1	(2-wire type *1)	×	O *2	×	
	ACD-13A	ACD-13A-□/M□,C5	ACR-13A-□/M□,C5	(2-wire type *1)	×	0	×	
	ACR-13A	ACD-13A-U/MU,C	ACR-13A-□/M□,C	×	×	0	×	
	BCD2 Series	BCD200-00	BCS200-00	(2-wire type *1)	×	0	×	
		BCR200-00				, , , , , , , , , , , , , , , , , , ,	~	
	AH3000 Series	AH3000		(2-wire type *1)	0	0	Х	
	AL3000 Series	AL3000		(2-wire type *1)	0	0	×	
	DB1000 Series	DB1000		(2-wire type *1)	0	0	×	
	DB2000 Series	DB2000		(2-wire type *1)	0	0	×	
	DZ1000 Series	DZ1000 *7		(2-wire type *1)	0	0	×	
	DZ2000 Series	DZ2000 *7		(2-wire type *1)	0	0	×	
	GT120 Series	GT120		(2-wire type *1)	X	0 *2	×	
		JU						
INO CORPORATION	JU Series			(2-wire type *1)	0	X	×	
	KE Series	KE3000	1000	(2-wire type *1)	0	×	×	
	KP Series	KP1000	KP2000	(2-wire type *1)	0	0	Х	
	LE5000 Series	LE5000		(2-wire type *1)	0	×	×	
	LT230 Series	LT230		(2-wire type *1)	×	O *2	Х	
	LT300 Series	LT350	LT370	(2-wire type *1)	0	0	×	
	LT400 Series	LT450	LT470	(2-wire type *1)	0	0	×	
	LT830 Series	LT830		(2-wire type *1)	×	0 *2	×	
	SE3000 Series	SE3000		O (2-wire type *1)	0	0	×	

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

				GT27/GT25/GT23/GT21/GS21-W-N					
Man	ufacturer	M	odel name	RS-485	RS-422	RS-232	Ethernet		
	Temperature controller	PXF PXG PXR	PXF4/5/9 PXG4/5/9 PXR3/4/5/9	(2-wire type *1)	×	O *2	×		
JJI ELECTRIC CO., LTD.	Digital controller	PXH	PXH9	(2-wire type *1)	×	O *2	×		
	Multi-loop module type temperature controller	PUM	PUMA/B	(2-wire type *1)	×	O *2	×		
	GREEN Series (UM)	UM330 UM331	UM350 UM351	(2-wire type *1)	×	O *2	×		
	GREEN Series (UP)	UP350 UP550 UP351		(2-wire type *1/4-wire type)	×	O *2	×		
		UP750		(2-wire type *1)	×	O *2	×		
	GREEN Series (US)	US1000		(2-wire type *1)	×	O *2	×		
okogawa Electric	GREEN Series (UT)	UT320 UT321 UT350 UT351 UT420	UT450 UT520 UT550 UT551	(2-wire type *1/4-wire type)	×	O *2	×		
orporation		UT750		(2-wire type *1)	×	O *2	×		
2	UT100 Series (UP)	UP150		(2-wire type *1)	×	O *2	×		
	UT100 Series (UT)	UT130 UT150	UT152 UT155	(2-wire type *1)	×	O *2	×		
	UT2000 Series	UT2400	UT2800	(4-wire type)	×	O *2	×		
	UTAdvanced Series (UM)	UM33A		(2-wire type *1/4-wire type)	×	O *2	O *10		
	UTAdvanced Series (UP)	UP35A UP55A		(2-wire type *1/4-wire type)	×	O *2	O *10		
		UP32A		(2-wire type *1/4-wire type)	×	O *2	×		
	UTAdvanced Series (UT)	UT32A UT55A UT35A UT75A UT52A		(2-wire type *1/4-wire type)	×	○ *2	O *10		
		H-PCP-J		(2-wire type *1)	0	0	×		
	SR Mini HG	H-PCP-A	H-PCP-B *7	(2-wire type *1)		0			
	SRZ	Z-CT Z-DIO Z-TIO		(2-wire type *1 *6)	O *5	O *2 *3	× 0 *10		
	CB *7	CB100 CB700 CB400 CB900 CB500		(2-wire type *1)	×	O *2	×		
	50	FB100		(2-wire type *1/4-wire type)	×	O *2	O *10		
	FB	FB400	FB900	(2-wire type *1/4-wire type)	0	O *2 *3	O *10		
	RB	RB100 RB400 RB500	RB700 RB900	(2-wire type *1)	×	O *2	×		
	PF	PF900	PF901	(2-wire type *1/4-wire type)	0	O *2 *3	×		
KC INSTRUMENT INC.	НА	HA400 HA401	HA900 HA901	(2-wire type *1/4-wire type)	0	0	×		
2	RMC	RMC500		(2-wire type *1)	×	O *2	×		
	MA	MA900	MA901	(2-wire type *1/4-wire type)	0	0	×		
	AG	AG500		(2-wire type *1/4-wire type)	0	×	×		
	THV	THV-A1		(2-wire type *1/4-wire type)	0	×	×		
	SA	SA100	SA200	(2-wire type *1)	×	O *2	×		
	SRX	X-TIO		(2-wire type *1)	×	O *2	×		
	SB1	SB1		(2-wire type *1)	×	O *2	×		
	B400	B400		(2-wire type *1)	0	×	×		
	FZ	FZ110		(2-wire type *1)	×	O *2	×		
	12	FZ400	FZ900	(2-wire type *1)	0	O *2 *3	×		
	RZ	RZ100	RZ400	(2-wire type *1)	×	O *2	×		
	PZ NEW	PZ400	PZ900	(2-wire type *1)	0	O *2	×		
	GZ NEW	GZ400	GZ900	(2-wire type *1)	0	O *2	×		
	SRJ	J-TI-A	J-TI- B	(2-wire type *1)	×	O *2	×		

GT27/GT25: Use RS-422/485 interface, GT15-RS4-TE, or FA-LTBGT2R4CBL□. GT15-RS4-9S cannot be used.
 If the temperature controller/indicating controller has an RS-485 interface, use an RS-232/RS-485 converter for the manufacturer.
 If the temperature controller/indicating controller has an RS-485 interface, use an RS-232/RS-482 converter for the manufacturer.
 Only the indicating controller equipped with RS-232 communication function can be connected.
 Use a communication extension module (Z-COM).
 Use a communication extension module (Z-COM).

*7 Select a model that supports the MODBUS[®] communication function.
 *8 Connectable with the products manufactured in October 2007 or later (Indicating controllers with the serial numbers 07Axxxxxx, and 07Xxxxxx or later).
 *9 Only MODBUS[®]/TCP connection is supported. Use the MODBUS[®]/RTU master communication driver.
 *10 Only MODBUS[®]/TCP connection is supported. Use the MODBUS[®]/TCP master communication driver.
 *11 Use a serial communication unit SCU.
 *12 GT21 and GS21-W-N cannot be connected.

Connectable model list (GOT2000/GOT SIMPLE)

◆ MODBUS[®] devices

Communication with MODBUS® compatible devices is possible by using the MODBUS®/RTU master or MODBUS®/RTU slave communication driver, or the MODBUS®/TCP master or MODBUS®/TCP slave communication driver.

For the MODBUS[®] devices, which have been checked for operation, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series MODBUS[®] Connection" (No. GOT-A-0070) on the Mitsubishi Electric Factory Automation Global website.

PROFIBUS DP devices

Communication with PROFIBUS DP-compliant devices is possible by using the PROFIBUS DP communication driver. (GT27, GT25 only) For the PROFIBUS DP-compliant devices, please refer to the Technical Bulletin "List of PROFIBUS DP-compliant Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0083) on the Mitsubishi Electric Factory Automation Global website.

DeviceNet devices

Communication with DeviceNet-compliant devices is possible by using the DeviceNet communication driver. (GT27, GT25 only) For the DeviceNet-compliant devices, please refer to the Technical Bulletin "List of DeviceNet-compliant Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0084) on the Mitsubishi Electric Factory Automation Global website.

Microcomputer connection

By connecting a personal computer, microcomputer board, programmable controller, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

SLMP devices

Communication with SLMP compatible devices is possible by using the SLMP communication driver. For the SLMP devices, which have been checked for operation, please refer to the Technical Bulletin "List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0085) on the Mitsubishi Electric Factory Automation Global website.

CC-Link IE Field Network Basic-compatible devices

Communication with CC-Link IE Field Network Basic-compatible devices is possible by using the Ethernet (CC-Link IE Field Network Basic) communication driver. The GOT2000 Series operates as a remote station and is connectable to CC-Link IE Field Network Basic-compatible devices that operate as master stations. For the CC-Link IE Field Network Basic-compatible devices, please refer to the Technical Bulletin "List of CC-Link IE Field Network Basic-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0104) on the Mitsubishi Electric Factory Automation Global website.

■ Applicable GOT models for each connection type

The GOT to be used differs depending on the connection type.

Model	Connection type	Applicable model							
	RS-232								
	RS-422/485	All models							
	Ethernet	(Built-in interfaces of the GOT can be used.)							
	CC-Link (via G4)								
GT27/GT25	Other than above	3127 all models 3125 models excluding some models by mounting communication units on the GOT, bus connection, network connection, and others can be seed. No communication units can be mounted on GT2512-WXTBD, GT2512-WXTSD, GT2510-WXTBD, 312510-WXTSD, GT2507-WTBD, GT2507-WTSD, GT2505-VTBD, GT2506HS-VTBD, and 312505HS-VTBD.)							
	RS-232								
OTOS	RS-422/485	All models							
GT23	Ethernet	(Built-in interfaces of the GOT can be used.)							
	CC-Link (via G4)								
	RS-232	GT2107-WTBD GT2103-PMBDS2 GT2107-WTSD GS2110-WTBD-N GT2104-RTBD GS2107-WTBD-N GT2103-PMBDS GS2107-WTBD-N							
GT21/GS21-W-N	RS-422/485	GT2107-WTBD GT2103-PMBDS GT2107-WTSD GT2103-PMBLS '1 GT2104-RTBD GS2110-WTBD-N GT2103-PMBD GS2107-WTBD-N							
	Ethernet	GT2107-WTBD GT2103-PMBD GT2107-WTSD GS2110-WTBD-N GT2104-RTBD GS2107-WTBD-N							
	CC-Link (via G4)	GT2107-WTBD GT2103-PMBDS GT2107-WTSD GT2103-PMBDS2 GT2104-RTBD GS2110-WTBD-N GT2103-PMBD GS2107-WTBD-N							

Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.

Connectable model list (GT SoftGOT2000 Version1)

Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

									Connect	tion type				
	Series			Model	Ethernet c	onnection			Serial	CC-Link IE	CC-Link IE Controller	CC-Link IE Field Network	MELSEC	MELSEC
				name	Single	Multi	connection (RS-232)	connection (USB)	communication connection	TSN connection	Network	Network	NET/H connection	NET/10 connection
		_	_	R00CPU										
				R01CPU R02CPU										
				R04CPU										
				R08CPU R16CPU	-									
				R32CPU	0	0	×	0	0	×	0	0	×	×
			R120CPU											
				R04ENCPU R08ENCPU	-									
MELSEC iQ-R Series			R16ENCPU											
	;		R32ENCPU R120ENCPU	-										
				R08SFCPU *27 R16SFCPU *27										
		Safety	CPU	R32SFCPU *27	0	0	×	0	0	×	0	0	×	×
				R120SFCPU *27 R08PCPU*28										
				R16PCPU*28		_			~		~	0 *20		
				R32PCPU*28 R120PCPU*28	0	0	×	0	0	×	0	O *29	×	×
		Proces	s CPU	R08PSFCPU*30										
				R16PSFCPU*30	0	0	×	0	×	×	0	O *29	×	×
				R32PSFCPU*30 R120PSFCPU*30		_		_			-	-		
				Q03UDVCPU										
		High-sp univers	peed al model	Q04UDVCPU Q06UDVCPU	O *23	O *23	O *18	0	0	×	O *2	O *4	O *23	0*2
		QCPU		Q13UDVCPU Q26UDVCPU										
				Q00UJCPU										
			Q00UCPU Q01UCPU	-						O *2				
			Q02UCPU							O *3				
			sal model	Q03UDCPU Q04UDHCPU	0 *23	O *23	0	0	0	×	0 -	O *4	O *23	0 *2
		QCPU		Q06UDHCPU	0	0			0			0.	0	0.
				Q10UDHCPU Q13UDHCPU							O *2			
rogrammable				Q20UDHCPU										
ontroller				Q26UDHCPU Q03UDECPU							O *3			
				Q04UDEHCPU							0 -			
			Q06UDEHCPU Q10UDEHCPU											
	MELSEC-Q Series (Q mode)		Q13UDEHCPU	O *23	O *23	O *18	0	0	×	O *2	O *4	O *23	O *2	
	(4 11000)		Q20UDEHCPU Q26UDEHCPU											
				Q50UDEHCPU										
				Q100UDEHCPU Q00JCPU								-		
		Basic r QCPU		Q00CPU *6	O *23	O *23	0	×	0	×	O *5	×	O *23	O *2
				Q01CPU *6 Q02CPU *6				×						
			erformance	Q02HCPU *6										
		model QCPU		Q06HCPU *6 Q12HCPU *6	O *23	O *23	0	0	0	×	O *7	×	O *23	0 *2
				Q25HCPU *6	-									
				Q02PHCPU Q06PHCPU							○ *8			
		Proces	is CPU	Q12PHCPU	O *23	O *23	0	0	0	×	O *9	×	O *23	O *2
		Redun	dant CPU	Q25PHCPU Q12PRHCPU	-	-	-	-					0.440	
		(main b	oase)	Q25PRHCPU	0	0	0	0	×	×	0 *9	×	O *10	0 *1
			dant CPU sion base)	Q12PRHCPU Q25PRHCPU	0	0	×	×	0	×	×	×	×	×
	MELSEC-QS Series			QS001CPU	0	0	×	O *11	×	×	O *12	O *13	0	0
				L02SCPU L02SCPU-P	O ^{*14}	O *14 *15	0	0	0	×	×	O *16	×	×
				L02CPU L02CPU-P										
	MELSEO L Orda			L02CPU-P										
	MELSEC-L Series			L06CPU-P	O *14	O *14	O *17	0	0	×	×	O *16	×	×
				L26CPU L26CPU-P										
				L26CPU-BT										
				L26CPU-PBT FX5U										
	MELSEC iQ-F Series			FX5UC	0	0	0	×	×	×	×	×	×	×
				FX5UJ	1	1	1	0		1				

Ethernet connection column is supports Ethernet connection, connection to or 6 or 8 servers, or connection to microcomputers. Therefore in the following list, ethernet connection column is supported in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 194.
 For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

 There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection.
 GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 194.

• For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

							Connect	tion type				
		Model	Ethernet c	onnection	Direct CPU	Direct CPU	Serial	CC-Link IE	CC-Link IE	CC-I ink IF	MELSEC	MELSEC
	Series	name			connection		communication	TSN	Controller Network connection	CC-Link IE Field Network	NET/H	NET/10
			Single	Multi	(RS-232)	(USB)		connection	connection	Network connection		connection ^{*1}
		FX0										
		FX0S	×	×	0	×	×	×	×	×	×	×
		FX0N FX1										<u> </u>
		FX1S										
		FX1N	×	×	0	×	×	×	×	×	×	×
		FX1NC										
Programmable		FX2										
controller	MELSEC-F Series	FX2C	×	×	0	×	×	×	×	×	×	×
		FX2N FX2NC										
		FX3G										
		FX3GC	0	O *31	0	0	×	×	×	×	×	×
		FX3U										
		FX3UC	0	O *31	0	0	×	×	×	×	×	×
		FX3S FX3GE	Ŭ	Ū	Ŭ	Ŭ						
	MELSEC iQ-R Series	R12CCPU-V	O *25	O *25	×	O *26	O *19	×	0	0	×	×
		Q24DHCCPU-V	0				0					
C Controller		Q24DHCCPU-VG										
module	MELSEC-Q Series	Q24DHCCPU-LS	0	0	O *18	0	O *19	×	O *2	0	0	0
		Q26DHCCPU-LS Q12DCCPU-V *20										
MELSECWinCPU												
NEW	MELSEC iQ-R Series	R102WCPU-W	×	0	×	×	×	×	×	×	×	×
Safety		WS0-CPU0									×	
controller	MELSEC-WS Series	WS0-CPU1	×	×	×	×	×	×	×	×		×
		WS0-CPU3 R16MTCPU										
	MELSEC iQ-R Series	R32MTCPU	- 0	0	×	0	0	×	0	0	×	×
		R64MTCPU		0			0					
		Q172CPU Discontinued	×	×	×	×	×	×	×	×	×	×
		Q173CPU Discontinued	^	^	^	^	^	^	^	^	^	
		Q172CPUN Discontinued	×	×	×	×	×	×	×	×	×	×
		Q173CPUN Discontinued Q172HCPU Discontinued										├ ───┤
		Q173HCPU Discontinued	×	×	×	×	×	×	×	×	×	×
Motion		Q172DCPU	×	×	×	×	×	×	×	×	×	×
controller		Q173DCPU	^	^	^	^	^	^	^	^	^	
	MELSEC-Q Series	Q172DCPU-S1	×	×	×	×	×	×	×	×	×	×
		Q173DCPU-S1 Q172DSCPU										├ ───┤
		Q173DSCPU	O *23	O *23	O *18	0	0	×	0	×	O *23	O *23
		Q170MCPU *21 *22	O *23	O *23 *32	0	0	0	×	0	O *4	O *23	O *23
		Q170MSCPU *22			Ê		6		â	6		
		Q170MSCPU-S1 *22	O *23	O *23	0	0	0	×	0	0	O *23	O *23
		MR-MQ100	×	×	×	×	×	×	×	×	×	×
	Lummate 1/0 statis	QJ72LP25-25			0							
IVIELSEGNET/F	H remote I/O station	QJ72LP25G QJ72BR15	×	×	0	×	×	×	×	×	×	×
	d Network head MELSEC iQ-R Series	RJ72GF15-T2	0	0	×	0	0	×	×	O *29	×	×
module	MELSEC-L Series	LJ72GF15-T2	×	×	×	0	0	×	×	0	×	×
CC-Link IE Fiel	d Network Ethernet adapter module		0	0	×	×	×	×	×	×	×	×
*1 Includes th	ne connection where MELSECNET/H	is used in the MELSECNE	T/10 mode. C	onnection to	*21 W	hen using SV4	3. use the Mo	tion CPU on w	hich any of th	e following ma	in OS softwar	e version is

In Surveys the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection the remote I/O network is not allowed. Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Includes the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection to *1 *2

*3 Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No.

Later than 09042. Use a CPU with the upper five digits of the serial No. later than 12012.

*4

*5 Use a CPU of function version B or later or a CC-Link IE Controller Network module of function version D or later. For the multiple CPU system configuration, use a CPU of function version B or later. *6

*7

Use a CPU with the upper five digits of the serial No. later than 09012. When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later. When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later.

*8

- Use a CPU with the upper five digits of the serial No. later than 10042 or a CC-Link IE Controller Network module of function version D or later. Use a MELSECNET/H interface board driver (SW0DNC-MNETH-B) with the version K or later. *9 *10
- *11 Only the host station and the host station settings can be accessed. (Access to other stations or other PLC CPUs are not allowed.)
 *12 Use a CPU with the upper five digits of the serial No. later than 10032 or a CC-Link IE Controller Network module of function version D or later.

*13 Use a CPU with the upper five digits of the serial No. later than 13042.
*14 When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.

- *15 Use a LJ71E71-100 since L02SCPU and L02SCPU-P have no built-in Ethernet port.
- Use a CPU with the upper five digits of the serial No. later than 13012. The adapter L6ADP-R2 is required. *16 *17

- *20 Use a CPU with the upper five digits of the serial No. later than 12042.

*21 When using SV43, use the Motion CPU on which any of the following main OS software version is installed

SW7DNC-SV43Q : 00F or later

*22 Only the PLC CPU area (CPU No.1) can be connected. The PERIPHERAL I/F cannot be used.

*23 In the Ethernet, MELSECNET/1, or MELSECNET/10 connection, to monitor a QCPU in the multiple CPU system, always use a network module of function version B or later. *24 Devices of other stations can be monitored via NZ2GF-ETB. (Devices of the host station cannot be

monitored.) *25 Use the built-in Ethernet port since RJ71EN71 is not supported

- *26 Access via the RCPU in the multiple CPU system since the CPU has no USB port to connect to a personal computer.
- Mount a safety function module R6SFM next to the RnSFCPU on the base unit. The RnSFCPU and the safety function module R6SFM must have the same pair version. If their pair versions differ, the *27 RnSFCPU does not operate
- *28 Mount a redundant function module R6RFM next to the RnPCPU on the base unit when building a redundant system.
- *29 In a redundant system, use a CC-Link IE Field Network interface board with the upper five digits of the serial No. 18042 or later.
- 30 Mount Hos IL2 of Index.
 31 Mount Hos IL2 function module R6PSFM and redundant function module R6RFM next to the RnPSFCPU on the base unit.
 31 The supported version of the main units varies depending on the Ethernet module to be used.

1	The supported version of the main units valies depending on the Ethemet module to be used.							
	Ethernet module*	CPU						
	Ethernet module	FX3U(C)	FX3G(C)	FX3S				
	FX3U-ENET-L	Ver. 2.21 or later FX3U-ENET-L is not supported.						
	FX3U-ENET-ADP*	Ver. 3.10 or later	Ver. 2.00 or later	Ver. 1.00 or later				
	*To connect to FX3SCPU, use FX3U-ENET-ADP Ver.1.20 or later.							

*32 PERIPHERAL I/F can be used.*33 Use the built-in Ethernet port since LJ71EN71 is not supported.

Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/ **Motion controllers**

• Ethernet connection

• Programmable controller Ethernet modules

CPU series			Ethernet module
MELSEC iQ-R Series	RJ71EN71 *4 RJ71GN11-T2 *6 *7 RD78G4 *6 *7 *8 NE RD78G8 *6 *7 *8 NE RD78G16 *6 *7 *8 NE	N	RD78G32 *6 *7 *8 NEW RD78G64 *6 *7 *8 NEW RD78GHV *6 *7 *8 NEW RD78GHW *6 *7 *8 NEW
C Controller module (MELSEC iQ-R Series) "6 "9	RJ71GN11-T2 RD78G4 *8 RD78G8 *8 RD78G16 *8		RD78G32 ^{*8} RD78G64 ^{*8} RD78GHW ^{*8} RD78GHW ^{*8}
MELSECWinCPU (MELSEC iQ-R Series) NEW	RJ71GN11-T2		
MELSEC iQ-F Series NEW	FX5-ENET *11 FX5-ENET/IP *11		FX5-CCLGN-MS 16 *10 FX5-40SSC-G 16 *10 *12 FX5-80SSC-G 16 *10 *12
Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71EN71 *4		
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) ^{*1}	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71		
MELSEC-L Series	LJ71E71-100 *2		
MELSEC-F Series	FX3U-ENET-L *3 FX3U-ENET-ADP *3 *5		
*1 When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area monitored. The PERIPHERAL UF cannot be used.	a (CPU No.1) can be		Use the basic system software version 06 or higher when using motion modules. When connecting to the CC-Link IE TSN master/local module or Motion module use the C Controller

*2 *3 *4 *5 *6 *7

When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored. The PERIPHERAL //F cannot be used. When using a UJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112. Options for extension controller may be required depending on the connected CPU. Use firmware version 12 or higher when building a redundant system. Use FX3U-ENET-ADP Ver.1.20 or higher to connect to FX3SCPU. Only available to GT SoftGOT2000 (Multi-channel). For connectable programmable controller CPUs and their firmware versions that support connection to each module, please refer to the manual of the CPU or the module to use.

Serial communication connection *1

• Programmable controller serial communication modules

CPU series MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) ^{*4} Motion controller (MELSEC iQ-R Series) RJ71C24 *3 RJ71C24-R2 *3 CC-Link IE Field Network head module (MELSEC iQ-R Series) QJ71C24 QJ71C24-R2 QJ71CMO QJ71CMON MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *2 QJ71C24N QJ71C24N-R2 MELSEC-L Series CC-Link IE Field Network head module (MELSEC-L Series) L.I71C24 LJ71C24-R2

*11

When connecting to the CC-Link IE TSN master/local module of module (MELSEC iQ-R series) with firmware version 15 or later
 FX5UJ is not supported.

Vacuum since supported. Use firmware version 1.100 or later for the FX5-ENET and FX5-ENET/IP. For FX5U, FX5UC, and FX5UJ that support FX5-ENET or FX5-ENET/IP, use firmware Ver.1.240 or

*12 For FX5U and FX5UC that support FX5-40SSC-G or FX5-80SSC-G, use firmware Ver.1.230 or later.

Only RS-232 communication can be used. When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored. Use firmware version 07 or higher when building a redundant system. Use the serial port of a serial communication module controlled by another CPU on the multiple CPU. *1 *2

*3 *4

• CC-Link IE TSN connection

CPU Series	CC-Link IE TSN module					
MELSEC iQ-R Series	X					
MELSEC iQ-F Series NEW	X					

CC-Link IE Controller Network connection

• Network modules (programmable controller side)

CPU series	CC-Link IE Controller Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GP21-SX *2
	QJ71GP21-SX QJ71GP21S-SX

*2 Use firmware version 12 or higher when building a redundant system.

· Network interface boards (personal computer side)

Туре	Network interface board						
	Q80BD-J71GP21-SX Q80BD-J71GP21S-SX						
	Q81BD-J71GP21-SX (optical loop) Q81BD-J71GP21S-SX (optical loop, with external power supply function)						

• There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 194.

• For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

CC-Link IE Field Network connection

· Network modules (programmable controller side)

CPU series	CC-Link IE Field Network module						
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GF11-T2*2 RJ71EN71 RD77GF4 RD77GF8 RD77GF16 RD77GF16 RD77GF16						
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *1	QJ71GF11-T2						
MELSEC-QS Series	QS0J71GF11-T2						
MELSEC-L Series	LJ71GF11-T2						
MELSEC iQ-F Series	X						

When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.
 Use firmware version 12 or higher when building a redundant system.

• Network interface boards (personal computer side)

Туре	Network interface board
CC-Link IE Field Network	Q81BD-J71GF11-T2

• MELSECNET/H, MELSECNET/10 connection

Network modules (programmable controller side)

CPU series	MELSECNET/H, MELSECNET/10 network module						
GPU series	Optical loop	Coaxial bus					
MELSEC-QS Series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11 *1					
	QJ71LP21-25 QJ71LP21S-25						

*1 Use function version B or later of the MELSECNET/H network module and CPU.

*2 When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

· Network interface boards (personal computer side)

Туре	Network interface board
MELSECNET/H	Q80BD-J71LP21-25 (optical loop) Q80BD-J71LP21S-25 (optical loop, with external power supply function) Q80BD-J71LP21G (optical loop) Q80BD-J71LBR11 (coaxial loop)
	Q81BD-J71LP21-25 (optical loop)

Mitsubishi Electric industrial computer

Series			Connection type										
	Model name	Ethernet of	connection				CC-Link IE	CC-Link IE Controller	CC-Link IE Field	MELSEC	MELSEC	MELIPC	
		Single	Multi	connection (RS-232)	connection (USB)		TSN connection	Network	Notwork	NET/H connection	NET/10 connection *1	direct connection	
MELIPC	MI5122-VW	0	0	×	×	×	×	×	0	×	×	0	

*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

Mitsubishi Electric inverters

				Connect	ion type		
Series	Model name	Ethernet of	connection				
Jenes	mouername	Single	Multi	RS-485		Multi-drop connection	
	FR-A8□0 *1 *4 FR-A8□2 *1 *4 FR-A8□6 *1 *4		O *3				
FR-A800 Series	FR-A8□0-E *2 FR-A8□2-E *2 FR-A8□6-E *2		0				
	FR-A8□0-GF *1 FR-A8□2-GF *1		O *3				
	FR-A8□0-GN *4 NEW FR-A8□2-GN *4 NEW		0				
	FR-A8□0-CRN *1 FR-A8□2-CRN *1		0				
	FR-A8□0-E-CRN *2 FR-A8□2-E-CRN *2		O *3				
FR-A800 Plus	FR-A8□0-R2R *1 FR-A8□2-R2R *1	×	0	×	×	×	
Series	FR-A8□0-E-R2R *2 FR-A8□2-E-R2R *2		O *3				
	FR-A8□0-AWH *1 NEW FR-A8□0-E-AWH NEW		0				
	FR-A8□0-E-LC *1 NEW FR-A8□0-E-LC NEW		O *3				
FR-F800 Series	FR-F8□0 *1 *4 FR-F8□2 *1 *4 FR-F8□6 *1 *4		O *3				
FR-FOUU Series	FR-F8□0-E *2 *4 FR-F8□2-E *2		0				
FR-E700 Series	FR-E7□0-NE *2		0				
FR-E800 Series	FR-E800 *1		O *3				
NEW	FR-E80(-E) *1 *2		0				

*1 Inverter connection is supported by using CC-Link IE Field Network connection via a programmable controller CPU. *3 Connection is supported by using RJ71GN11-T2 via Ethernet.

*2 Inverter connection is supported by using Ethernet connection via a programmable controller CPU.

*4 CC-Link IE TSN connection to inverters is supported via a programmable controller CPU.

♦ Mitsubishi Electric servo amplifiers (general-purpose) I

Series		Connection type									
	Model name	Ethernet c	onnection	RS-422	RS-232	Multi drop connection					
		Single	Multi	K9-422	K0-232	Multi-drop connection					
MELSERVO-J5 Series	MR-J5-□G MR-J5-□G-RJ MR-J5W2-□G MR-J5W3-□G MR-J5D1-□G4 MR-J5D2-□G4 MR-J5D3-□G4	x	0	×	×	×					
MELSERVO-JET Series	MR-JET-□G	×	0	×	×	×					

♦ Mitsubishi Electric servo amplifiers (SSCNET III/H)

		Motion controller or			Connection type												
_ ·	Model			Ethernet c	onnection	Direct CPU	Direct CPU	Serial	CC-Link IE	CC-Link IE	CC-Link IE	MELSEC	MELSEC				
Series	name	Simple motion module	CPU type	Single	Multi	connection (RS-232)	connection (USB)	communication connection	TSN connection	Controller Network connection	Field Network connection	NET/H connection	NET/10 connection *1				
			RnMTCPU	0	0	×	0	0	×	0	0	×	×				
		–	Q17nDSCPU	×	0	0	0	0	×	0	0	0	0				
	MR-J4-□B		Q170MSCPU	×	0	0	0	0	×	0	0	0	0				
MELSERVO-J4	MR-J4-□B-RJ	RD77MS	RnCPU	0	0	×	0	0	×	0	0	×	×				
Series	MR-J4W2-□B	QD77MS *3	QnCPU	×	0	0	0	0	×	0	0	0	0				
Series MR-	MR-J4W3-□B	LD77MS	LnCPU	×	0	0	0	0	×	×	0	×	×				
						FX5-40SSC-S	FX5CPU	0	0	×	×	×	×	×	×	×	×
			FX5-80SSC-S	FX5CPU	0	0	×	×	×	×	×	×	×	×			
		RD77MS *2	RnCPU	0	0	×	0	0	×	0	0	×	×				
MELSERVO-JE		QD77MS *4	QnCPU	×	0	0	0	0	×	0	0	0	0				
Series	MR-JE-□B	LD77MS *4	LnCPU	×	0	0	0	0	×	×	0	×	×				
Joines		FX5-40SSC-S	FX5CPU	0	0	×	×	×	×	×	×	×	×				
		FX5-80SSC-S	FX5CPU	0	0	X	X	X	X	X	×	X	X				

*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*2 Use a module with the firmware version 3 or later.

*3 Use a module with the upper five digits of the serial No. later than 15041.
 *4 Use a module with the upper five digits of the serial No. later than 16102.

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Specifications

 There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection.
 GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 194.

• For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

Mitsubishi Electric servo amplifiers (CC-Link IE Field Network) www

		Motion controller or		Connection type									
name				Ethernet connection					CC-Link IE	CC-Link IE			
			Simple Motion module, or master/ local module	CPU type	Single	Multi	Direct CPU connection (RS-232)	(USB)	communication connection	CC-Link IE TSN connection	Controller Network connection	Field Network connection	MELSEC NET/H connection
		RD77GF4 *1	RnCPU	×	0	×	×	×	×	×	×	×	×
		RD77GF8 *1	RnCPU	×	0	×	×	×	×	×	×	×	×
		RD77GF16 *1	RnCPU	×	0	×	×	×	×	×	×	×	×
		RD77GF32	RnCPU	×	0	×	X	×	×	×	×	×	×
		QD77GF4 *2	QnCPU	×	0	×	×	×	×	×	×	×	×
MELSERVO-J4		QD77GF8 *2	QnCPU	×	0	×	×	×	×	×	×	×	×
Series	MR-J4-□GF-RJ	QD77GF16 *2	QnCPU	×	0	×	×	×	×	×	×	×	×
		RnENCPU	RnCPU	×	0	×	×	×	×	×	×	×	×
		RJ71EN71	RnCPU	×	0	×	×	×	×	×	×	×	×
		RJ71GF11-T2	RnCPU	×	0	×	×	×	×	×	×	×	×
		QJ71GF11-T2 *3		×	Ó	×	×	×	×	×	×	×	×
		LJ71GF11-T2 *3	LnCPU	×	Ó	×	×	×	×	×	×	×	×

*1 To use the motion mode, use a module with the firmware version 1 or later; to use the I/O mode, use a module with the firmware version 2 or later;

*2 To use the I/O mode, use a module with the upper five digits of the serial No. later than 18022.

*3 Use a module with the upper five digits of the serial No. later than 14102. Motion mode is not supported.

Mitsubishi Electric servo amplifiers (CC-Link IE TSN)

		Progran	nmable	Connection type									
Series	Model name	controller		Ethernet connection *1		Direct CPU	Direct CPU	Serial	CC-Link IE	CC-Link IE Controller	CC-Link IE Field	MELSEC	MELSEC
			Motion module ^{*2}	CPU type	Single	Multi	connection (RS-232)	connection (USB)	communication connection	TSN connection	Network	Network connection	NET/H connection
	MR-J5-□G	RD78G4		×	0	×	×	×	×	×	×	×	×
		RD78G8]	×	0	×	×	×	×	×	×	×	×
	MR-J5-□G-RJ	RD78G16	RnCPU	×	0	×	×	×	×	×	×	×	×
MELSERVO-J5	MR-J5W2-□G	RD78G32	RnENCPU	×	0	×	×	×	×	×	×	×	×
Sorios	MR-J5D1-□G4 RD78GHV MR-J5D2-□G4 RD78GHV MR-J5D3-□G4 FX5-40SS	RD78G64	R12CCPU-V	×	0	×	×	×	×	×	×	×	×
Conco		RD78GHV]	×	0	×	×	×	×	×	×	×	×
		RD78GHW		×	0	×	×	×	×	×	×	×	×
		FX5-40SSC-G	FX5U	×	0	×	×	×	×	×	×	×	×
		FX5-80SSC-G	FX5UC	×	0	×	×	×	×	×	×	×	×
		RD78G4		×	0	×	×	×	×	×	×	×	×
		RD78G8		×	0	×	×	×	×	×	×	×	×
		RD78G16	RnCPU	×	0	×	×	×	×	×	×	×	×
MELSERVO-JET		RD78G32	RnENCPU	×	0	×	×	×	×	×	×	×	×
Series	MR-JET-G	RD78G64	R12CCPU-V	×	0	×	×	×	×	×	×	×	×
Joenes		RD78GHV		×	0	×	×	×	×	×	×	×	×
		RD78GHW		×	0	×	×	×	×	×	×	×	×
		FX5-40SSC-G	FX5U	×	0	×	×	×	×	×	×	×	×
		FX5-80SSC-G	FX5UC	×	0	×	×	×	×	×	×	×	×

*1 Connect a servo amplifier to the built-in Ethernet port of a programmable controller CPU directly or via a hub.

*2 When monitoring a servo amplifier through a Motion module, the available mode on the servo amplifier varies depending on the firmware version of the Motion module to use. For the details, please refer to the manual of the Motion module to use.

Mitsubishi Electric robot controllers

				Connection type										
Series	Controller name	Ethernet connection		Direct CPU	Direct CPU	Serial	CC-Link IE	CC-Link IE Controller	CC-Link IE Field	MELSEC	MELSEC			
		Single	Multi	connection (RS-232)	connection (USB)	communication connection	connection	Network	Network	NET/H connection	NET/10 connection *1			
	CR750-Q(Q172DRCPU) CR751-Q(Q172DRCPU)	O *2	O *2	O *3	O *5	0	×	O *4	0	0	0			
F Series	CR750-D CR751-D	0	0	×	×	×	×	×	×	×	×			
SQ Series	CRnQ-700(Q172DRCPU)	O *2	O *2	O *3	O *5	0	×	O *4	0	0	0			
SD Series	CRnD-700	0	0	×	×	×	×	×	×	×	×			
	CR800-D	0	O *7	×	×	×	×	×	×	×	×			
FR Series	CR800-R(R16RTCPU)	0	0	×	O *6	×	×	×	×	×	×			
	CR800-Q(Q172DSRCPU)	0	0	0 *3	O *5	0	×	O *4	0	0	0			

Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

Only supports the case where MELSECNE1/H is used in the MELSECNE1/10 mode. Connection to the remote I/O network is not allowed. The Display I/F of CRnQ-700, CR760/751-Q cannot be used. Ethernet connections can be established only via the Ethernet module (QJ71E71) or the built-in Ethernet port in the multiple CPU system (QnUDE). Access via the serial port (RS-232) of QCPU in the multiple CPU system since CRnQ-700, CR750/751-Q, and CR800-Q have no serial port. Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Access via QCPU in the multiple CPU system since CR750-Q, CR751-Q, CR0-700, and CR800-Q have no USB port. Access via QCPU in the multiple CPU system since CR800-R has no USB port. Connectable to the built-in LAN port of CR800-D in Ethernet connection. *2 *3 *4 *5 *6 *7

Mitsubishi Electric CNCs

	Connection type									
Series	Ethernet c	onnection				CC-Link IE	CC-Link IE Controller	CC-Link IE Field	MELSEC	MELSEC
	Single	Multi	connection (RS-232)	Connection (USB)	communication connection	connection	Network connection	Network	NET/H connection	NET/10 connection *1
CNC C80 (R16NCCPU-S1)	0	0	х	O *4	×	×	×	×	×	×
CNC C70 (Q173NCCPU)	0	0	O *2	0	0	×	O *3	0	0	0

Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

Access via the besid port (RS-232) of OCPU in the multiple CPU system since CNC C70 has no serial port. Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042. Access via RCPU in the multiple CPU system since CNC C80 has no USB port. *2 *3 *4

				Connection type						
Ma	nufacturer	Model na	mo	Ethernet c	onnection	Direct CPU				
IVIA	nulacturer	iniouei na	me	Single	Multi	connection	connection			
	1	0.1111	CJ1M	Olligic	widiti	(RS-232)	(RS-232)			
	SYSMAC CJ1	CJ1H CJ1G	CJIM	0	0	0	×			
		CJ2H		0	0	0	×			
	SYSMAC CJ2	CJ2M		0	0	O *1	×			
	SYSMAC CPM	CPM2A		×	×	0	×			
	SYSMAC CQM1	CQM1		×	×	O *2	×			
	SYSMAC CQM1H	CQM1H		×	×	0	×			
	SYSMAC CP1	CP1E (N type)		×	×	O *6	×			
OMRON	SYSMAC CP2 NEW	CP2E-E CP2E-S		×	×	0	×			
Corporation	STOWAG OF2	CP2E-N		ô	Ô	0	×			
	0.000	CS1H	CS1D *3							
	SYSMAC CS1	CS1G		0	0	0	×			
	SYSMAC CVM1/CV *4	CVM1-CPU11-V□ CVM1-CPU01-V□ CV500-CPU01-V□	CV1000-CPU01-V CV2000-CPU01-V	×	×	0	×			
	SYSMAC α	C200HX C200HG	C200HE	×	×	0	×			
	NJ	NJ501-000 NJ101-000	NJ301-□□□	×	×	×	×			
		KV-700 KV-1000	KV-3000	0	0	×	×			
KEYENCE CORPO	DATION	KV-5000	KV-5500	0	0	×	×			
KETENCE CORPO	RATION	KV-7300		0	0	×	×			
		KV-7500		0	0	×	×			
	1	KV-8000 NEW		0	0	×	×			
		PU811		0	0	×	×			
TOSHIBA CORPORATION	Unified Controller nv Series	PUM11 PUM12		0	0	×	×			
CONT ON ANON	The Genes	PUM12 PUM14		0	0	×	×			
Hitachi Industrial Ed	uipment Systems Co., Ltd.	EHV series								
	NEW	MICRO-EHV series		0	0	×	×			
		GL120	GL130	×	×	0	×			
		GL60S	GL70H	×	×	×	0			
		GL60H								
		CP-9200SH		×	×	×	0			
		CP-9300MS MP920		×	×	0	×			
		MP930		0	0	0	0			
YASKAWA Electric	Corporation	MP930 MP940		×	×	0	×			
TASKAWA Electric	Corporation	PROGIC-8		×	×	0	×			
		CP-9200 (H)		×	×	0	×			
		CP-312		×	×	×	×			
		CP-317		0	0	×	0			
		MP2200 MP2300	MP2300S	0	0	×	0			
		MP3200	MP3300	0	0	×	×			
Yokogawa Electric Corporation	FA-M3	F3SP05 F3SP08 F3F936 F3SP21 F3SP25 F3SP25 F3SP28 F3SP26	F3SP38 F3SP53 F3SP58 F3SP59 F3SP66 F3SP66 F3SP67	0	0	×	×			
	FA-M3V	F3SP35 F3SP71-4N F3SP71-4S	F3SP76-7S	0	0	×	×			
	STARDOM	NFCP100	NFJT100	O *7	0 *7	×	×			
LS Industrial Systems Co., Ltd. NEW	XGT	XGK-CPUU XGK-CPUH XGK-CPUA XGK-CPUS	XGK-CPUE XGK-CPUUN XGK-CPUHN XGK-CPUSN	0	0	×	×			
Siemens AG		SIMATIC S7-200 series *5 SIMATIC S7-200 SMART series NEW SIMATIC S7-300 series	SIMATIC S7-400 series SIMATIC S7-1200 series *5 SIMATIC S7-1500 series *5 NEW	0		×	×			

Only CJ2W-CPU1 an be connected. Connection to the CQM1-CPU11 is not allowed since the CQM1-CPU11 has no RS-232 interface. Connection is supported only when a single communication unit is used in a single CPU system configuration. SYSMAC CVM1/CV can be used with a CPU version 1 or later. *1 *2 *3

*4

*5 Only OP communication can be used in Ethernet connection of the S7-200 series, the S7-1200 series, and the S7-1500 series.
 *6 Connection is not available with the E type CP1E.
 *7 Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP master communication driver.

• There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or

Ethernet connection column is separated in two columns: Single (G1 SoftG012000) and Multi (G1 SoftG012000 (Multi-channel)). For connection with O microcomputers, please refer to page 194.

• For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

Modules usable when connected with non-Mitsubishi controllers in serial communication connection or Ethernet connection

Manufa	cturer	Et	hernet	R	5-232
OMRON Corporation	Ethernet module	CS1W-ETN21 CS1W-EIP21 CJ1W-EIP21 NEW	CJ1W-ETN21 CS1D-ETN21D		-
KEYENCE CORPORATION	Ethernet module	KV-LE20V KV-EP21V	KV-LE21V		-
TOSHIBA CORPORATION	Ethernet module	EN811			-
Hitachi Industrial Equipment Systems Co., Ltd. NEW	Intelligent serial port module Network module	EH-ETH/ETH2 EH-ELK	EH-ORML EH-R2LH/OR2LH		-
YASKAWA Electric Corporation	MEMOBUS module Communication module	218IF 218IF-01 218IF-02 *1 218TXB		JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF	217IF-01 218IF-01 218IF-02 *1
Yokogawa Electric Corporation	Ethernet interface module	F3LE01-5T F3LE11-0T F3LE12-0T			-
Siemens AG	Ethernet module	CP243-1 CP243-1 IT CP343-1 CP343-1 CP343-1 Advanced	CP343-1 IT CP343-1 Lean CP443-1 CP443-1 IT		-
LS Industrial Systems Co., Ltd. NEW	Ethernet module	XGL-EFMT(B)			-

*1 To connect MP2200, MP2300, or MP2300S using Ethernet connection or RS-232 connection, use a CPU of software version 2.60 or later.

Non-Mitsubishi robot controllers NEW

		Connection type							
Manufacturer	Model name	Ethernet c		Direct CPU connection	Serial communication				
Manchacturer	Model hame	Single	Multi	(RS-232)	connection (RS-232)				
YASKAWA Electric Corporation Robot controller	YRC1000	0	0	×	×				

♦ MODBUS[®] devices

Communication is possible with devices compatible with MODBUS[®]/TCP master or MODBUS[®]/TCP slave connection. For the MODBUS[®] devices, which have been checked for operation, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series MODBUS[®] Connection" (No. GOT-A-0070) on the Mitsubishi Electric Factory Automation Global website.

SLMP devices

Communication with SLMP compatible devices is possible.

For the SLMP devices, which have been checked for operation, please refer to the Technical Bulletin "List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0085) on the Mitsubishi Electric Factory Automation Global website.

OPC UA servers

Communication with OPC UA servers is possible.

For the OPC UA servers, which have been checked for operation, please refer to the Technical Bulletin "List of OPC UA Servers Validated to Operate with the GOT2000 Series" (No. GOT-A-0137) on the Mitsubishi Electric Factory Automation Global website.

Microcomputer connection

By connecting a personal computer, microcomputer board, programmable controller, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

Compatibility with conventional products

Compatibility with GOT1000 Series

- The following shows the overview of replacing from the GOT1000 Series. For the details, please refer to the following Technical Bulletins.
- Technical Bulletin "Precautions when Replacing GOT1000 Series with GOT2000 Series" No.GOT-A-0061 (GT16, GT15)
- Technical Bulletin "Precautions when Replacing the GT14 Model with GT2505(HS)-VTBD" No.GOT-A-0125 (GT14)
 Technical Bulletin "Precautions when Replacing GT11 Model with GT27 and GT25 Models" No.GOT-A-0145 (GT11)
- Technical Bulletin "Information and precautions on replacing GOT1000 with GOT2000 (GT10 model \rightarrow GT21 model)" No.HIME-T-P-0137

Panel cut dimensions

The panel cut dimensions are the same if the GOT1000 Series and the GOT2000 Series have the same screen size. Changing mounting holes is not required.

	GOT1000 Series	GOT2000 Series				
15"	GT1695 *1, GT1595 *1	Same dimensions as GT2715.				
12.1"	GT1685 *1, GT1585 *1	Same dimensions as GT2712, GT2512.				
10.4"	GT167□ *1, GT157□ *1, GT1275 *1	Same dimensions as GT2710, GT2510-V, GT2310.				
8.4"	GT166 ¹ *1, GT156 ¹ *1, GT1265 *1	Same dimensions as GT2708, GT2508, GT2308.				
5.7"	GT1655 *1, GT155 *1, GT145 *1, GT115 *1, GT105 *1	Same dimensions as GT2705, GT2505.				
3.7"	GT1020 *1	Same dimensions as GT2103. (Although the screen size differs, panel cut dimensions are the same.)				

*1 Discontinued product.

Communication units, option units

Communication units and option units for the GT16, GT15, GT12, or GT10 can be used with the GOT2000 Series as-is except for the following devices.

	GOT1000 Seri	es	GOT2000 Series	Remarks		
	BS-422 conversion unit	GT15-RS2T4-9P *1	Use the built-in RS-422/485 interface or			
		GT15-RS2T4-25P *1	GT15-RS4-9S (serial communication unit)	_		
8	MELSECNET/10 communication unit	GT15-75J71LP23-Z *1	GT15-J71LP23-25 (MELSECNET/H communication unit)	Use MELSECNET/H communication unit in MELSECNET/10		
nmu		GT15-75J71BR13-Z *1	GT15-J71BR13 (MELSECNET/H communication unit)	mode.		
Communication	CC-Link communication unit (CC-Link (ID) Ver.1)	GT15-75J61BT13-Z *1	GT15-J61BT13 (CC-Link communication unit)	-		
1 unit	Connection conversion adapter	GT10-9PT5S	-	The adapter is not required on GT2103 and GT2104 because Europe terminal blocks are used.		
	Ethernet communication unit	GT15-J71E71-100 *1	Use the built-in Ethernet interface or GT25-J71E71-100 (Ethernet communication unit)	-		
	Multimedia unit GT16M-MMR *1		GT27-MMR-Z (multimedia unit)	A CF card is used with the unit.		
	Video input unit	GT16M-V4 *1	GT27-V4-Z (video input unit)			
		GT15V-75V4 *1		_		
	RGB input unit	GT16M-R2 *1	GT27-R2 (RGB input unit)			
P		GT15V-75R1 *1		_		
Option unit	Video/RGB input unit	GT16M-V4R1 *1	GT27-V4R1-Z (video/RGB input unit)			
Uni;		GT15V-75V4R1 *1		_		
	RGB output unit	GT16M-ROUT *1	GT27-ROUT (RGB output unit)			
		GT15V-75ROUT *1		_		
	CF card unit	GT15-CFCD *1	-	A CF card cannot be used with the GOT2000 Series.		
	CF card extension unit	GT15-CFEX-C08SET *1	-	Use an SD memory card with the built-in SD memory card slot		

*1 Discontinued product.

Cables

<GT16, GT15>

• For the details of using the bus connection cables, RS-232 cables, RS-422 cables, or other cables for GT16 or GT15 with GT27 or GT25, please refer to the Technical Bulletin "Precautions when Replacing GOT1000 Series with GOT2000 Series" No. GOT-A-0061.

<GT14>

• RS-232, RS-422, and other cables being used with GT14 can be used as-is with GT2505-VTBD or GT2505HS-VTBD.

<GT10>

• The cables being used with GT1020 can be used as-is with GT2103 (serial type).

Project data

The project data of the GOT1000 Series can be used as-is by converting the GOT Type using GT Designer3 Version 1.100E or later *. * The supported version differs depending on the GOT2000 models.

Compatibility with GOT900 Series

- For the details, please refer to the following Technical Bulletins.
- Technical Bulletin "Precautions when Replacing GOT-A900 Series with GOT2000 Series" No.GOT-A-0062

Compatibility with GOT800, A77GOT, or A64GOT Series

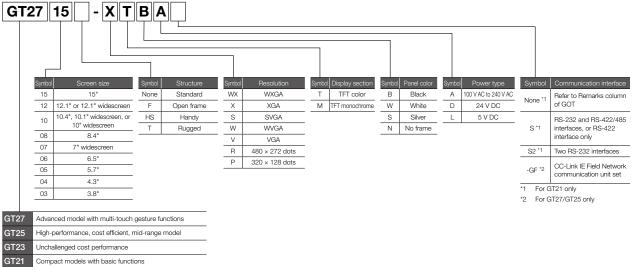
For the details, please refer to the following Technical Bulletins.

Technical Bulletin "Precautions when Replacing A800, A77GOT, A64GOT Series with GOT2000 Series" No.GOT-A-0063

For the Technical Bulletins, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

GOT model name

For the status of conforming to various standards and laws (CE, UKCA, ATEX, UL/cUL, Class I Division 2, KC, KCs, and maritime certifications [ABS/BV/DN//LR/NK/RINA]), please contact your local sales office.



GS21 Simple model with pursued usability

GOTs

Clas		Model	Screen size	Display section Display color	Panel color	Power	Remarks
	GT2715	GT2715-XTBA	15" XGA		Black	100 to 240 V AC	
	G12715	GT2715-XTBD	15 AGA		Diack	24 V DC	
		GT2712-STBA			Black	100 to 240 V AC	
	GT2712	GT2712-STBD	12.1" SVGA		Diack	24 V DC	
		GT2712-STWA	12.1 3VGA		White	100 to 240 V AC	
		GT2712-STWD *1			VVIIIte	24 V DC	
		GT2710-STBA	10.4" SVGA			100 to 240 V AC	
		GT2710-STBD	10.4 3VGA	TET	Black	24 V DC	Multimedia & Video/RGB compatible
GT27	GT2710	GT2710-VTBA		TFT color 65536 colors	Diack	100 to 240 V AC	Multi-touch compatible
		GT2710-VTBD	10.4" VGA			24 V DC	-
		GT2710-VTWA	10.4 VGA		White	100 to 240 V AC	
		GT2710-VTWD *1			VVIIICO	24 V DC	
		GT2708-STBA	8.4" SVGA	1		100 to 240 V AC	
	GT2708	GT2708-STBD	0.4 SVGA		Black	24 V DC	
	1012700	GT2708-VTBA	8.4" VGA		Diack	100 to 240 V AC	
		GT2708-VTBD	0.4 VGA			24 V DC	
	GT2705	GT2705-VTBD	5.7" VGA]	Black	24 V DC	Multi-touch compatible
		GT2512-STBA			Black	100 to 240 V AC	
	IGT2512	GT2512-STBD	12.1" SVGA	_	DIACK	24 V DC	—
		GT2512F-STNA	12.1 SVGA			100 to 240 V AC	On an frame model
		GT2512F-STND			_	24 V DC	Open frame model
		GT2510-VTBA			Black	100 to 240 V AC	
		GT2510-VTBD			BIACK	24 V DC	
	GT2510	GT2510-VTWA	10.4" VGA		White	100 to 240 V AC	—
	GIZSIU	GT2510-VTWD *1	10.4 VGA		VVIILE	24 V DC	
GT25		GT2510F-VTNA		TFT color 65536 colors		100 to 240 V AC	On an frame model
		GT2510F-VTND			_	24 V DC	Open frame model
		GT2508-VTBA			Black White	100 to 240 V AC	
		GT2508-VTBD				24 V DC	
	070500	GT2508-VTWA	0.411/04			100 to 240 V AC	—
	GT2508	GT2508-VTWD *1	8.4" VGA			24 V DC	
		GT2508F-VTNA				100 to 240 V AC	0 ()
		GT2508F-VTND			-	24 V DC	Open frame model
	GT2505	GT2505-VTBD	5.7" VGA		Black	24 V DC	_
	GT2512	GT2512-WXTBD NEW	12.1" WXGA		Black	24 V DC	
	1012512	GT2512-WXTSD NEW	12.1 WAGA		Silver *2	24 V DC	
GT25	GT2510	GT2510-WXTBD	10.1" WXGA	TFT color	Black	24 V DC	Wide model
Wide	GIZSIU	GT2510-WXTSD	TU.T WAGA	65536 colors	Silver *2	24 V DC	wide model
	070507	GT2507-WTBD	711 144 /0 4		Black	041/00	
	GT2507	GT2507-WTSD	7" WVGA		Silver *2	24 V DC	
GT25	GT2506	GT2506HS-VTBD	6.5" VGA	TFT color	Black	24 V DC	Lingdy COT
Handy	GT2505	GT2505HS-VTBD	5.7" VGA	65536 colors	BIACK	24 V DC	Handy GOT
GT25 Rugged	GT2507	GT2507T-WTSD	7" WVGA	TFT color 65536 colors	Silver	24 V DC	Rugged model
	GT2310	GT2310-VTBA	10.4" VGA		Black	100 to 240 V AC	
GT23	012310	GT2310-VTBD	10.4 VGA	TFT color	DIACK	24 V DC	
0125	GT2308	GT2308-VTBA	8.4" VGA	65536 colors	Black	100 to 240 V AC	—
	G12308	GT2308-VTBD	8.4 VGA		BIACK	24 V DC	

GOTs

Clas	ssification	Model	Screen size	Display section Display color	Panel color	Power	Remarks	
GT21	GT2107	GT2107-WTBD	7" WVGA	TFT color	Black	24 V DC	Wide model	
Wide	Wide	GT2107-WTSD	7 WVGA	65536 colors	Silver *2	24 V DC	Wide Hiddei	
	GT2104	GT2104-RTBD	4.3" [480 × 272 dots]	TFT color 65536 colors	Black	24 V DC	Ethernet, RS-422/485, RS-232	
0.701		GT2103-PMBD		TFT Monochrome (black/white) 32 shade grayscale	Black	24 V DC	Ethernet, RS-422/485	
GT21	GT2103	GT2103-PMBDS	3.8"			24 V DC	RS-232, RS-422/485	
	1012103	GT2103-PMBDS2	[320 × 128 dots]	5-color LED		24 V DC	RS-232 × 2 channels	
		GT2103-PMBLS		(white, green, pink, orange, red)		5 V DC	RS-422 (FXCPU connection only)	
GS21	GS2110	GS2110-WTBD-N NEW	10" WVGA	TFT color	Black	24 V DC	GOT SIMPLE Series	
19952 1	GS2107	GS2107-WTBD-N NEW	7" WVGA	65536 colors	Diduk	24 V DO	GOT SIMPLE Series	

*1 To comply with the ATEX directive and KCs regulation, protective sheet (GT25-D_PSCC-UC) and special fitting (GT25-D_FIT-EXS) in the "Options" list (page 200) are required separately. (Only protective sheet is required for GT2508-VTWD.) Communication units and option units cannot be used. When using these units, GOT does not conform to the standards. For the details, please refer to the Technical Bulletin "GOT2000 Series in Compliance with the ATEX Directive and KCs Certification Requirements" (No. GOT-A-0101) on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

 $^{\ast}2$ ~ The lower part of the panel including the USB environmental protection cover is black.

GOT + CC-Link IE Field Network communication unit sets

Clas	ssification	Model	Screen size	Display section Display color	Panel color	Power	Remarks
	GT2715	GT2715-XTBA-GF	15" XGA		Black	100 to 240 V AC	
	G12/15	GT2715-XTBD-GF	15 AGA		DIACK	24 V DC	
		GT2712-STBA-GF			Black	100 to 240 V AC	
	GT2712	GT2712-STBD-GF	12.1" SVGA		BIACK	24 V DC	
	GIZTIZ	GT2712-STWA-GF	12.1 SVGA		White	100 to 240 V AC	
		GT2712-STWD-GF				24 V DC	
		GT2710-STBA-GF	10.4" SVGA		Black	100 to 240 V AC	
		GT2710-STBD-GF	10.4 SVGA			24 V DC	GOT
GT27	GT2710	GT2710-VTBA-GF	10.4" VGA	TFT color 65536 colors		100 to 240 V AC	+
	GIZIIO	GT2710-VTBD-GF				24 V DC	GT15-J71GF13-T2
		GT2710-VTWA-GF	10.4 VGA		White	100 to 240 V AC	
		GT2710-VTWD-GF			WIND	24 V DC	
	GT2708	GT2708-STBA-GF	8.4" SVGA			100 to 240 V AC	
		GT2708-STBD-GF	0.4 3VGA		Black	24 V DC	
		GT2708-VTBA-GF	- 8.4" VGA			100 to 240 V AC	
		GT2708-VTBD-GF	0.4 VGA			24 V DC	
	GT2705	GT2705-VTBD-GF	5.7" VGA		Black	24 V DC	
	GT2512	GT2512-STBA-GF	12.1" SVGA		Black	100 to 240 V AC	
	012012	GT2512-STBD-GF	12.1 5704		Didok	24 V DC	
		GT2510-VTBA-GF			Black	100 to 240 V AC	
	GT2510	GT2510-VTBD-GF	10.4" VGA		Biddir	24 V DC	
GT25	012010	GT2510-VTWA-GF	10.4 VGA	TFT color	White	100 to 240 V AC	GOT
0120		GT2510-VTWD-GF		65536 colors	WING	24 V DC	GT15-J71GF13-T2
		GT2508-VTBA-GF			Black	100 to 240 V AC	
	GT2508	GT2508-VTBD-GF	8.4" VGA		LINGOR	24 V DC	
	012000	GT2508-VTWA-GF	0.4 VQA		White	100 to 240 V AC	
		GT2508-VTWD-GF				24 V DC	

Product List

Communication units

					S	upport	ed mod	el		
Product name	Model	Specifications	GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21-W-N NEW
Ethernet communication unit *1	GT25-J71E71-100	Data transfer method: 100BASE-TX, 10BASE-T AUTO MDI/MDI-X	•	• *11	_	-	-	-	-	-
	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin male)	•	• *11	_	-	-	-	-	-
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin female) *1 *2	٠	• *11	_	_	-	-	-	-
Serial communication unit	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block) ^{*1} Can be used only when connected with temperature controllers/ indicating controllers by RS-485 connection or at the GOT multi- drop connection	•	• *11	-	-	-	-	-	-
	GT15-QBUS	Q bus connection (1 channel) unit standard model	•	• *11	_	-	-	-	-	-
Q bus connection unit	GT15-QBUS2	Q bus connection (2 channels) unit standard model	•	• *11	-	-	-	-	-	-
Q bus connection unit	GT15-75QBUSL	Q bus connection (1 channel) unit slim model *3	٠	• *11	-	-	-	-	-	-
	GT15-75QBUS2L	Q bus connection (2 channels) unit slim model *3	•	• *11	-	-	-	-	-	-
MELSECNET/H	GT15-J71LP23-25	Normal station unit (optical loop)	•	• *11	-	-	-	-	-	-
communication unit	GT15-J71BR13	Normal station unit (coaxial bus)	•	• *11	_	-	-	-	-	-
CC-Link IE TSN communication unit	GT25-J71GN13-T2	Local station (device station) unit	•	● *11	_	-	-	-	-	-
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX	Normal station unit (optical loop)	•	• *11	-	-	-	-	-	-
CC-Link IE Field Network communication unit	GT15-J71GF13-T2	Intelligent device station unit	•	• *11	-	-	-	-	-	-
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit CC-Link Ver. 2 compliant	•	• *11	-	-	-	-	-	-
Field network adapter unit	GT25-FNADP	Supported network: PROFIBUS DP, DeviceNet *4	•	• *11	-	-	-	-	_	_
Wireless LAN communication unit *5 *6	GT25-WLAN	IEEE802.11b/g/n compliant, built-in antenna, wireless LAN access point (base station), station (client), connection to personal computer, tablet, smartphone Compliance with: Japan Radio Law '7, FCC standards '8, RE Directive '13 (R&TTE Directive '8), SRR '9, KC '9, Radio Equipment Regulations (UKCA)'14	•	● *11	•	•	_	_	_	-
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection	•	•	٠	•	•	•	• *10	_
Connection conversion adapter	GT10-9PT5S	For connecting the RS-422/485 (D-Sub 9-pin connector) and RS-422/485 (terminal block)	-	• *12	-	-	-	-	-	-
RS-232/485 signal conversion adapter	GT14-RS2T4-9P	For connecting the RS-232 (D-Sub 9-pin connector) and RS- 485 (terminal block)	-	• *12	-	-	-	-	-	-

*1 May not be able to be used depending on the connection target. For details, please refer to the GOT2000 Series Connection Manual.

*2 Cannot be used when connected with temperature controllers or indicating controllers by RS-485 (2-wire type) connection.

*3 Cannot be stacked with other units.

*4 The unit should be used with an Anybus® CompactCom M40 network communication module manufactured by HMS. Please purchase the module by specifying the article number.

Supported network	Communication module product name	Communication module article number
PROFIBUS DP	ABCC-M40-DPV1	AB6910-B, AB6910-C
DeviceNet	ABCC-M40-DEV	AB6909-B, AB6909-C

*5 Data transfer in wireless LAN communication may not be as stable as that in cable communication. A packet loss may occur depending on the surrounding environment and the installation location. Be sure to perform a confirmation of operation before using this product.

*6 When [Operation Mode] is set to [Access Point] in [Wireless LAN Setting] of GT Designer3, up to five stations are connectable to the wireless LAN access point (base station).

*7 The product with hardware version A or later complies with the regulation. The product with hardware version A can be used only in Japan.

*8 The product with hardware version B or later complies with the regulation. The product with hardware version B or later can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, and Liechtenstein.

*9 The product with hardware version D or later complex with the regulation. The product with hardware version D or later can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, Liechtenstein, China (for details, please refer to the GOT2000 Series Wireless LAN Communication Unit User's Manual IB-0800522), and South Korea.
*10 Available to GT2104-RTBD, GT2103-PMBD, and GT2103-PMBDS.

*11 Not available to GT2505-VTBD, GT2506HS-VTBD, and GT2505HS-VTBD.

*12 Only available to GT2505-VTBD.

*13 The product complies with the RE Directive from March 31, 2017.

*14 The product with hardware version G or later (manufactured from October 2021) complies with the regulation. The product with hardware version G or later can be used in Japan, the United States, the EU member states, the UK, Switzerland, Norway, Iceland, Liechtenstein, China (for details, please refer to the GOT2000 Series Wireless LAN Communication Unit User's Manual IB-0800522), and South Korea.

Communication units for GT25 Handy GOT

			Supporte	ed model
Product name	Model	Specifications	GT2506 Handy	GT2505 Handy
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection	•	-
Connection conversion adapter	GT10-9PT5S	For connecting the RS-422/485 (D-Sub 9-pin connector) and RS-422/485 (terminal block)	● [*] 1	-

*1 Usable only when the connector conversion box GT16H-CNB-42S is used.

Option units

		Specifications				Supp	orted n	nodel			
Product name	Model			GT25	GT25 Wide	GT25 Handy	GT25 Rugged	GT23	GT21 Wide	GT21	GS21-W-N NEW
Printer unit	GT15-PRN	USB device (PictBridge) for printer connection, 1 channel Cable for connection between printer unit and printer (3m) included	٠	• *3	-	-	-	-	-	-	-
Multimedia unit	GT27-MMR-Z	For video input (NTSC/PAL), 1 channel, recording video/ playing video files	● *1	-	-	-	-	-	-	-	-
Video input unit	GT27-V4-Z	For video input (NTSC/PAL), 4 channels	• *1	-	-	-	-	-	-	-	-
RGB input unit	GT27-R2	For analog RGB input, 2 channels (simultaneous display)	• *1	-	-	-	-	-	-	-	-
Video/RGB input unit	GT27-V4R1-Z	For video input (NTSC/PAL), 4 channels/analog RGB, 1 channel input	● *1	-	-	-	-	-	-	-	-
RGB output unit	GT27-ROUT	For analog RGB output, 1 channel (slim unit)	• *1	-	-	-	-	-	-	-	-
Digital video output unit	GT27-VHOUT	For digital video output, 1 channel HDMI Type A connector	● *1	-	-	_	-	-	-	-	-
Sound output unit	GT15-SOUT	For sound output (\$3.5 stereo pin jack)	•	● *3	-	-	-	-	-	-	-
External I/O unit	GT15-DIOR	For connecting an external I/O device and an operation panel (negative common input, source type output)	•	● *3	_	-	-	-	-	-	-
	GT15-DIO	For connecting an external I/O device and an operation panel (positive common input, sink type output)	•	● *3	_	-	-	-	-	-	-
SD memory card unit	GT21-03SDCD	For mounting an SD memory card	-	_	-	-	-	-	-	•*2	-

*1 Not available to GT2705-VTBD.

*2 Only available to GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2.

Software

								Sup	ported r	nodel			
Product name	Model		Description		GT27	GT25	GT25 Wide	GT25 Handy		GT23	GT21 Wide	GT21	GS21-W-N NEW
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-EC	English Version	Site license product *1	DVD	•	•	•	•	•	•	•	•	•
FA Integrated Engineering Software MELSOFT iQ Works *2 *3	SW2DND-IQWK-E	English Version	Standard license product	DVD	•	•	•	•	•	•	•	•	•
GT Works Text to Speech License *6	SW1DND-GTVO-M	Standard	license product		•	• *7	•	-	•	-	-	-	-
GT Works3 Add-on License for GOT2000 Enhanced Drive Control (Servo) Project Data *8	SW1DND-GTSV-MZ	Standard	license product	•	•	•	•	•	-	-	_	-	
License key for GT SoftGOT2000 *4	GT27-SGTKEY-U	For USB p	port		-	-	-	-	-	-	-	-	-
	GT25-PCRAKEY-1	1 license			•	•	•	٠	•	-	-	-	-
Remote Personal Computer Operation	GT25-PCRAKEY-5	5 licenses	5 licenses				٠	٠	•	-	-	-	-
Function (Ethernet) License *5	GT25-PCRAKEY-10	10 license	9S	•	•	•	٠	•	-	-	-	-	
	GT25-PCRAKEY-20	20 license	9S	•	•	•	٠	•	-	-	-	-	
	GT25-VNCSKEY-1	1 license	1 license (License for GOT remote access function)			•	•	•	•	-	•	-	NEW
VNC Server Function License *5	GT25-VNCSKEY-5	5 licenses			•	•	٠	•	•	-	•	-	NEW
	GT25-VNCSKEY-10	10 licenses		٠	•	•	•	•	-	•	-	NEW	
	GT25-VNCSKEY-20	20 license	95		٠	•	•	•	•	-	•	-	NEW
	GT25-MESIFKEY-1	1 license			•	•	•	•	•	-	-	-	-
MES I/E Function License *5	GT25-MESIFKEY-5	5 licenses	3		•	•	•	•	•	-	-	-	-
MES I/F FUNCTION LICENSE	GT25-MESIFKEY-10	10 license	es		•	•	٠	•	•	-	-	-	-
	GT25-MESIFKEY-20	20 license	95		•	•	•	•	•	-	-	-	-
	GT25-WEBSKEY-1	1 license			•	•	٠	٠	•	-	-	-	-
GOT Mobile Function License *5	GT25-WEBSKEY-5	5 licenses	3		٠	•	•	•	•	-	-	-	-
GOT MODILE FUNCTION LICENSE 0	GT25-WEBSKEY-10	10 license	es		•	•	•	•	•	-	-	-	-
	GT25-WEBSKEY-20	20 licenses		•	•	٠	•	•	-	-	-	-	
GOT Mobile Function License for	SGT2K-WEBSKEY-1	1 license			-	-	-	-	-	-	-	-	-
GT SoftGOT2000 *9 NEW	SGT2K-WEBSKEY-5	5 licenses			-	-	-	-	-	-	-	-	_

*1 Anyone can use the product as long as that person belongs to the business office (including overseas offices) of the corporation that purchased the product, or to the same public vocational training facility or other educational institution as the corporation.

*2 Volume license product and additional license product are also available. For more details, please refer to the MELSOFT iQ Works catalog (L(NA)08232ENG).

 Volume license product and admitchal license product and licens *4 To use GT SoftGOT2000, each personal computer requires a license key for GT SoftGOT2000.

*5 One license is required for one GOT. *6

To edit sound files, each personal computer requires one license

*7 GT2505-VTBD does not support the sound output function. *8

Each personal computer requires an add-on license to use add-on projects. *9 Each personal computer with GT SoftGOT2000 installed requires one license.

Application package

					Supported model										
Product name			GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged	GT23	GT21 Wide	GT21	GS21-W-N NEW				
	AP30-PRM001AA-MA	1 license	•	•	•	•	•	•	•	•*2	•				
iQ Monozukuri Process Remote Monitoring *1	AP30-PRM001AA-MB	5 licenses	•	•	•	•	•	•	•	● *2	•				
	AP30-PRM001AA-MC	10 licenses	•	•	٠	•	•	•	٠	● *2	•				
	AP30-ADN001AA-MA	1 license	•	•	•	•	•	-	-	-	-				
	AP30-ADN001AA-MB	5 licenses	•	•	•	٠	•	-	-	-	-				
iQ Monozukuri ANDON *3	AP30-ADN001AA-MC	10 licenses	•	•	•	•	•	-	-	-	-				
	AP30-ADN001AA-MD	15 licenses	•	•	•	•	•	-	-	-	-				
	AP30-ADN001AA-ME	20 licenses	•	•	•	•	•	-	-	-	-				

*1 Process Remote Monitoring setting tool, iQ Monozukuri Process Remote Monitoring template project for GT SoftGOT2000, and the Process Remote Monitoring license are included.

*2 Supported by GT2104-RTBD and GT2103-PMBD only.

*3 Contents Publisher, project file of the GOT for IQ Monozukuri ANDON (template screens), GOT Mobile function license, and the IQ Monozukuri ANDON license are included.

Product List

Options

Optic	/13												
									Supporte	ed mode	l		
Produc	ct name	Model		Spec	ifications	GT27	GT25	GT25	GT25	GT23	GT21	GT21	GS21-W-N
		0707 450000	Fac 151			-		Wide	Rugged		Wide		NEW
		GT27-15PSGC GT25-12PSGC	For 15" For 12.1"	 Antiglare 	tuno	•	-	-	_	-	_	-	-
		GT25-12PSGC GT25-10PSGC	For 12.1	 Transpa 		•	•	_	_	_	_	_	_
		GT25-08PSGC	For 8.4"		ole for the USB environmental	•	•	-	_	_	_	_	_
		GT25-05PSGC	For 5.7"	 protection A set of 		•	_	_	_	_	_	_	-
		GT25-05PSGC-2	For 5.7"			-	•	-	-	-	-	-	-
		GT25-12WPSGC NEW	For 12.1" wide					•	_				
		G125-12WPSGC NEW	models	 Antiglare Transpa 	e type	_	-		_	-	_	_	-
		GT25-10WPSGC	For 10.1" wide models	 Without 	a hole for the USB environmental	-	-	•	-	-	-	-	-
			For 7" wide	 A set of 	on cover *10 5 sheets								
		GT21-07WPSGC	models			-	-	•	-	-	•	-	-
		GT27-15PSCC	For 15"			•	-	-	_	-	_	-	-
		GT25-12PSCC	For 12.1"	 Clear ty Transpa 		•	•	-	-	-	-	-	-
		GT25-10PSCC	For 10.4"		ole for the USB environmental	•	•	-	-	-	-	-	-
Protective	sheet *1	GT25-08PSCC GT25-05PSCC	For 8.4"	protecti		•	•	-	-	-	-	-	-
FIOLECLIVE	Sheet	GT25-05PSCC-2	For 5.7" For 5.7"	 A set of 	5 Sheets	•	•	_	_	-	_	_	_
			For 12.1" wide			-	•			-	_	_	-
		GT25-12WPSCC NEW	models	<u>Clear</u> ty	De	-	-	•	-	-	-	-	-
		GT25-10WPSCC	For 10.1" wide	 Transpa 	rent a hole for the USB environmental	_	_	•	_	_	_	_	_
		0123-1001 300	models	protection	on cover ¹⁰			•					
		GT21-07WPSCC	For 7" wide • Å set of 5 sheets models			-	-	•	-	-	•	-	-
		GT25-12PSCC-UC *9	For 12.1"	 Clear ty 	00	● *9	•	_	_	_	_	_	_
				 Transpa 	rent	-	-						
		GT25-10PSCC-UC *9	For 10.4"		a hole for the USB environmental on cover *2	• *9	● *9	-	-	•	-	-	-
		GT25-08PSCC-UC *9	For 8.4"	 A set of 		•	• *9	-	-	•	-	-	-
		GT21-04RPSGC-UC	For 4.3"	Antiglare	e type	-	-	-	-	-	-	•	-
		GT21-03PSGC-UC	For 3.8"	 Transpa A set of 		_	-	-	-	-	-	•	-
		GT21-04RPSCC-UC	For 4.3"		Clear type		_	-	_	_	-	•	_
		GT21-03PSCC-UC	For 3.8"	 Transpa 	rent		_	-	_	_	_	•	_
				A set of Cloor ty		•						-	
	,	GT25-12PSAC NEW	For 12.1"	Clear type Transparent With a hole for the USB environmental			● *15	-	-	-	-	-	-
Antibacter protective		GT25-10PSAC NEW	For 10.4"	protecti	on cover	•	● *15	-	-	-	-	-	-
		GT25-08PSAC NEW	For 8.4"	 Made of A set of 	acrylic (PMMA) 5 sheets	•	● *15	-	_	-	-	-	-
					type (UV cutoff)								
UV protect (for the rug *13	tive sheet gged model)	GT25T-07WPSVC	For 7" rugged model	 Transpa 	rent a hole for the USB environmental	-	-	-	•	-	-	-	-
		07055 405000	E 40.48	• I SHEEL			a +7						
Environme		GT25F-12ESGS	For 12.1"		orming to IP67F	-	• *7	-	-	-	-	-	
sheet (for t		GT25F-10ESGS	For 10.4"	 Antiglare Slivery 	stype	-	● *7	-	-	-	-	-	-
frame mod	del)	GT25F-08ESGS	For 8.4"	 1 sheet 		-	● *7	-	-	-	-	-	-
		GT25-UCOV	For 15"/12.1"/10	.4"/8.4"		•	•	-	-	-	-	-	-
USB envir	onmontol	GT25-05UCOV	For 5.7"		Environmental protection cover for the USB interface	•	-	-	-	-	-	-	-
protection			For 12.1" wide m		on the GOT front face (for								
		GT21-WUCOV	10.1" wide models/s		replacement)	-	•	•	-	-	•	-	-
		GT20-15PCO	For 15"	0.7		•	_	-	_	_	_	_	_
		GT20-12PCO	For 12.1"			•	•	_	_	_	_	_	_
		GT20-10PCO	For 10.4"			•	•	_	_	•	_	_	_
		GT20-08PCO	For 8.4"			•	•	-	-	•	-	-	-
		GT25-05PCO	For 5.7"			•	_	_	-	-	_	-	-
Protective	cover for	GT25-05PCO-2	For 5.7"			_	•	-	-	-	-	-	-
oil *3		GT21-12WPCO NEW	For 12.1" wide r	nodels		-	-	•	-	-	-	-	-
		GT21-10WPCO	For 10.1" wide r			-	-	٠	-	-	-	-	-
		GT21-07WPCO	For 7" wide mod			-	-	•	-	-	•	-	-
		GT25T-07WPCO*14	For 7" rugged m	odel		-	-	-	•	-	-	-	-
		GT21-04RPCO	For 4.3"			-	-	-	_	-	-	•	-
		GT10-20PCO	For 3.8"			-	-	-	-	-	-	•	-
		GT15-90STAND	For 15"			•	-	-	-	-		-	-
		GT15-80STAND	For 12.1"			•	•	-	-	-	-	-	-
01-		GT15-70STAND	For 10.4"/8.4"	- del		•	•	-	-	•	-	-	-
Stand		GT25-10WSTAND	For 10.1" wide m			-	-	•	-	-	-	-	-
		GT21-07WSTAND	For 7" wide mod			-	-	•	-	-	•	-	-
		GT25T-07WSTAND GT05-50STAND	For 7" rugged m For 5.7"	ouel		•	•	_	•	-	_	-	-
		NZ1MEM-2GBSD	SD memory card	for GOT o	GB	•	•	•	•	•	•	•	•
	SD	NZ1MEM-2GBSD	SD memory card SDHC memory c			•	•	•	•	•	•	•	•
	memory		-										
	card	NZ1MEM-8GBSD	SDHC memory c			•	•	•	•	•	•	•	•
		NZ1MEM-16GBSD	SDHC memory c			•	•	•	•	•	•	•	•
		GT05-MEM-128MC	CF card for GT2			•	-	-	-	-	-	-	-
Memory		GT05-MEM-256MC	CF card for GT2	'-MMR-Z, 2	56 MB	•	-	-	-	-	-	-	-
card		GT05-MEM-512MC	CF card for GT2	'-MMR-Z, 5	12 MB	•	-	-	-	-	-	-	-
	CE oard	GT05-MEM-1GC	CF card for GT2	'-MMR-Z, 1	GB	•	-	-	-	-	-	-	-
	CF card	GT05-MEM-2GC	CF card for GT2	-MMR-Z, 2	GB	•	-	-	-	-	-	-	-
		GT05-MEM-4GC	CF card for GT2	-MMR-Z, 4	GB	•	-	-	-	-	-	-	-
		GT05-MEM-8GC	CF card for GT27-MMR-Z, 4 GB CF card for GT27-MMR-Z, 8 GB				_	-	_	-	_	-	-
		GT05-MEM-16GC	CF card for GT2			•	_	_	_	_	_	_	_
		1	1	_,	MMR-Z, 16 GB		1		l			1	



Options

							Supporte	ed mode			
Product name	Model		Specifications	GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21-W-N NEW
Memory card adaptor	GT05-MEM-ADPC	Conversion adap memory card (Ty	ter from CF card for GT27-MMR-Z to (PE II)	•	-	-	-	-	-	-	-
	GT15-70ATT-98	For 10.4"	For replacing GT168 , GT158 , A985GOT *4	•	•	-	-	•	-	-	-
	GT15-70ATT-87	FOF 10.4	For replacing A870GOT-SWS/TWS or A8GT-70GOT-TB/TW/SB/SW	•	•	-	-	•	-	-	-
	GT15-60ATT-97		For replacing GT167□, GT157□, A97□GOT	•	•	-	_	•	_	_	-
	GT15-60ATT-96	1	For replacing A960GOT	•	•	-	-	•	-	-	-
Attachment *11	GT15-60ATT-87	For 8.4"	For replacing A870GOT-EWS, A8GT- 70GOT-EB/EW, A77GOT-EL, A77GOT- EL-S5/S3	•	•	-	-	•	-	-	-
	GT15-60ATT-77	-	For replacing A77GOT-CL, A77GOT- CL-S5/S3, A77GOT-L, A77GOT-L-S5/S3	•	•	-	-	•	_	-	-
	GT15-50ATT-95W	For 5.7"	For replacing A956WGOT, F940WGOT	•	•	-	-	-	-	-	-
	GT15-50ATT-85	F01 5.7	For replacing A85□GOT	•	•	-	-	-	-	-	-
	GT21-04RATT-40	For 4.3"	For replacing GT104	-	-	-	-	-	-	● *8	-
Battery	GT11-50BAT	Battery for backu status log data *6	up of SRAM data, clock data, and system $_{\delta}$.	(For replacement)	● *12 (For replacement)	(For replacement)	(For replacement)	(Option)	(For replacement)	● *5 (For replacement)	-
On a sint fitting *0	GT25-12FIT-EXS	For 12.1"	For compliance with the ATEX directive and	● *9	-	-	-	-	-	-	-
Special fitting *9	GT25-10FIT-EXS		KCs regulation	● *9	● *9	-	-	-	-	-	-
Panel Mount HMI Speaker ^{*16}	FA1-GT0S04W		i product package: speaker, audio cable ply connector, cable clamp, user's manual	● *17	● ^{*17} *18	•	● *19	-	-	-	-

*1 The white model does not have the front USB interface. It is recommended to use the products that the USB environmental protection cover area is closed.

*2 When using the product with the USB environmental protection cover area closed, the front USB interface cannot be used.

*3 Check if the protective cover for oil can be used in the actual environment before use. When using the cover, the front USB interface and human sensor cannot be used.

*4 Including the GP250 and GP260 manufactured by Schneider Electric Japan Holdings Ltd.

*5 GT2103-PMBD, GT2103-PMBDS, GT2103-PMBDS2, and GT2103-PMBLS do not have a built-in battery.

*6 GT21 does not support the system status log data backup function.

*7 GT2512F-STNA, GT2512F-STND, GT2510F-VTNA, GT2510F-VTND, GT2508F-VTNA, and GT2508F-VTND only.

*8 Only available to GT2104-RTBD.

*9 Necessary for the GOT to comply with the ATEX directive and KCs regulation. For applicable GOT models, please contact your local sales office.

*10 The protective sheet is shaped not to cover the USB environmental protection cover.

*11 An attachment is usable when the control panel has a thickness of 2 to 3 mm. When an attachment is used, the GOT is not IP67F-rated.

*12 Cannot be used with GT2506HS-VTBD.

*13 The UV protective sheet for the rugged model does not comply with IP66F and IP67F.

*14 The protective cover for oil for the rugged model does not comply with IP66F.

15 Not available to GT2512F-STNA, GT2512F-STND, GT2510F-VTNA, GT2510F-VTND, GT2508F-VTNA, GT2508F-VTND, GT2506HS-VTBD, and GT2505HS-VTBD.

*16 For the details of the product, please contact MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED. *17 A sound output unit (GT15-SOUT) should be mounted on the extension interface of the GOT.

*18 Excluding GT2505-VTBD.

*19 The model can be used within the specification range of the Panel Mount HMI Speaker. For detailed specifications, please refer to the user's manual of the speaker. For the user's manual, please contact your local sales office of MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED.

Options for GT25 Handy GOT

				Support	ed model
Product name	Model		Specifications	GT2506 Handy	GT2505 Handy
	GT16H-60PSC	For 6.5"	Clear type	٠	-
Protective sheet	GT14H-50PSC	For 5.7"	Transparent A set of 5 sheets	-	•
Emergency stop	GT16H-60ESCOV	For 6.5"	Cover for preventing incorrect operation of the emergency stop switch		-
switch guard cover	GT14H-50ESCOV	For 5.7"	Cover for preventing incorrect operation of the emergency stop switch	-	•
Connector	GT16H-CNB-42S	For converting th RJ45.	e Handy GOT signals into individual signals for the terminal block, D-sub connector, and Ethernet	•	• *1
conversion box	GT16H-CNB-37S	For converting th	e Handy GOT signals into individual signals for the terminal block and Ethernet RJ45.	•	•
	GT11H-CNB-37S	For converting th	e Handy GOT signals into individual signals for the terminal block and D-sub connector.	-	•
Wall-mounting attachment for Handy GOT	GT14H-50ATT	For GT2505 Han	dy GOT	-	•
	NZ1MEM-2GBSD	SD memory card	for GOT, 2 GB	٠	•
SD memory card	NZ1MEM-4GBSD	SDHC memory c	ard for GOT, 4 GB	٠	•
SD memory card	NZ1MEM-8GBSD	SDHC memory c	ard for GOT, 8 GB	٠	•
NZ1MEM-16GBSD SDHC memory card for GOT, 16 GB		ard for GOT, 16 GB	•	•	
	GT15-BAT	Dotton (for book	in of CDAM data, alcoly data, and a interministrative log data (for replacement)	٠	-
Battery	GT11-50BAT	Dattery for Dackt	ip of SRAM data, clock data, and system status log data (for replacement)	-	•

*1 Only Ethernet connection is supported. Serial communication connection is not supported.

Product List

Cables

Cabi	62												
			0.111	December				Supp	orted	mod	el *16		
Р	roduct name	Model	Cable length	Recommended product ^{*1}	Specifications	GT27	GT25		GT25	GT23	GT21 Wide	GT21	GS21-W-N NEW
		GT15-QC06B	0.6 m										
	QCPU connection cable	GT15-QC12B	1.2 m										
	GOT-to-GOT connection	GT15-QC30B	3 m	0	QCPU ↔ GOT GOT ↔ GOT	•	• *13	-	-	_	-	-	-
0000	cable	GT15-QC50B	5 m		GUT ++ GUT		*13						
QCPU bus		GT15-QC100B	10 m										
connection		GT15-QC150BS	15 m										
cable	QCPU connection cable	GT15-QC200BS	20 m		For connecting the QCPU and GOT (long distance), A9GT-QCNB is								
	GOT-to-GOT connection	GT15-QC250BS	25 m	0	required	•	● *13	_	_	_	_	_	_
	cable (long distance)	GT15-QC300BS	30 m	-	For connecting the GOT and GOT (long distance)		*13						
	(GT15-QC350BS	35 m										
Bus exter	ision connector box	A9GT-QCNB	-	-	Connect the connector box to the main base unit of PLC when connecting the QCPU and GOT (long distance).	•	• *13	-	-	-	-	-	-
Bus conne	ection cable ferrite core	GT15-QFC	-	0	Attach a ferrite core to the GOT-A900 bus connection cable when an existing GOT-A900 is replaced with a GOT2000. (two ferrite cores/ set)	•	*13	_	-	_	_	_	-
		FA-LTBGT2R4CBL05	0.5 m		,								
RS-485 te	erminal block conversion	FA-LTBGT2R4CBL05			RS-485 terminal block conversion unit					_	_	_	_
unit			1 m	0	With a cable for connecting RS-422/485 (connector) of GOT2000 and a RS-485 terminal block conversion unit	•	*13	•	•	_	-	-	-
		FA-LTBGT2R4CBL20	2 m										
RS-422 o	onversion cable	FA-CNV2402CBL	0.2 m	0	For connecting the QCPU/L02SCPU(-P) and the RS-422 cable (GT01- C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5) For connecting the L6ADP-R2 and the RS-422 cable (GT01-C□R4-25P,	•	•	•	•	•	•	•	•
		FA-CNV2405CBL	0.5 m	Ū	GT10-C□R4-25P, GT21-C□R4-25P5) [MINI-DIN 6-pin ↔ D-sub 25-pin]			-	-			*12	
		GT01-C30R4-25P	3 m		For connecting a QnA/ACPU/Motion CPU (A series)/FXCPU and the GOT								
		GT01-C100R4-25P	10 m		GOT For connecting an RS-422 connector conversion cable (FA-CNV□CBL)								
			10111	_	and the GOT	•	•	•	•	•	•	•	•
		GT01-C200R4-25P	20 m		For connecting a serial communication module and the GOT For connecting a peripheral connection module (AJ65BT-G4-S3) and		-		-	-	-	*3 *7	-
		GT01-C300R4-25P	30 m		the GOT [D-sub 25-pin ↔ D-sub 9-pin]								
	QnA/A/FXCPU direct	GT10-C30R4-25P	3 m		For connecting a QnA/ACPU/Motion CPU (A series)/FXCPU and the GOT								
	connection cable	GT10-C100R4-25P	10 m		For connecting an RS-422 connector conversion cable (FA-CNV□CBL) and the GOT								
	Computer link connection cable	GT10-C200R4-25P	20 m	-	For connecting a serial communication module and the GOT For connecting a peripheral connection module (AJ65BT-G4-S3) and	-	-	-	-	-	-	*10	-
	CC-Link (G4) connection	GT10-C300R4-25P	30 m		the GOT [D-sub 25-pin ↔ separate wire (connector terminal block 9-pin)]								
	cable	GT21-C30R4-25P5	3 m		For connecting a QnACPU and the GOT For connecting an RS-422 connector conversion cable (FA-								
		GT21-C100R4-25P5	10 m		CNVICBL) and the GOT For connecting a serial communication module and the GOT								
		GT21-C200R4-25P5	20 m	_	For connecting a peripheral connection module (AJ65BT-G4-S3) and the \ensuremath{GOT}	-	-	-	-	-	-	*2	-
		GT21-C300R4-25P5	30 m		[D-sub 25-pin +> separate wire (connector terminal block 5-pin)] * GT2103-PMBD cannot be connected to Q00JCPU, Q00CPU, Q01CPU, A Series, or FX1/FX2 Series.								
					QUICPU, A Series, or FX1/FX2 Series.								
		GT09-C30R4-6C	3 m		For connecting a parial communication module and the COT								
	Computer link	GT09-C100R4-6C	10 m	0	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT	•	•	•	•	•	•	•	•
	connection cable	GT09-C200R4-6C	20 m		[separate wire ↔ D-sub 9-pin]	-		-	-	-		*3 *7	-
		GT09-C300R4-6C	30 m										
RS-422		GT01-C10R4-8P	1 m										
cable		GT01-C30R4-8P	3 m		For connecting the FXCPU and GOT								
		GT01-C100R4-8P	10 m	_	For connecting the FXCPU communication expansion board and GOT	•	٠	•	٠	٠	•	•3•7	•
		GT01-C200R4-8P	20 m		[MINI-DIN 8-pin ↔ D-sub 9 pin]								
		GT01-C300R4-8P	30 m										
		GT10-C10R4-8P	1 m										
		GT10-C30R4-8P	3 m		For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and								
		GT10-C100R4-8P	10 m	-	GOT	-	-	-	-	-	-	•4	-
		GT10-C200R4-8P	20 m		[MINI-DIN 8-pin ↔ separate wire (connector terminal block 9-pin)]								
		GT10-C300R4-8P	30 m										
	FXCPU direct connection	GT21-C10R4-8P5	1 m										
	cable	GT21-C30R4-8P5	3 m		For connecting the FXCPU and GOT								
	FXCPU communication	GT21-C100R4-8P5	10 m	-	For connecting the FXCPU communication expansion board and GOT	-	-	-	-	-	-	•.2	-
	expansion board	GT21-C200R4-8P5	20 m		[MINI-DIN 8-pin and separate wire (connector terminal block 5-pin)]								
	connection cable	GT21-C300R4-8P5	30 m										
					For connecting the FXCPU and GOT								
					For connecting the FXCPU communication expansion board and GOT								
		GT10-C10R4-8PL	1 m	-	[MINI-DIN 8-pin ↔ separate wire (connector terminal block 9-pin)] *This cable cannot be used for FX1NC, FX2NC, FX3UC-D/DSS,	-	-	-	-	-	-	*4	-
					FX3G, FX3GC, or FX3S.								
		GT10-C10R4-8PC	1 m		For connecting the EVODULTER OCT								
	GT10-CT0H4-8PC 1 m GT10-C30R4-8PC 3 m	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and											
		GT10-C100R4-8PC	10 m	-	For connecting the FXCPU communication expansion board and — GOT –		-	-	-	-	-	•	-
		GT10-C200R4-8PC	20 m]	[MINI-DIN 8-pin ++ connector terminal block 9-pin with separate wire						4		
		GT10-C300R4-8PC	30 m		connected]								
	RS-422 connector conversion cable	GT10-C02H-9SC	0.2 m	-	For connecting a PLC and the GOT [D-sub 9-pin ↔ separate wire (connector terminal block 9-pin)]	-	-	-	-	-	-		-
	CONVERSION CADLE				[b] sup a-bit - sebarate wire (connector terminal block a-bit)]							*10	

Cables

			Cable	Recommended				Supp	orted	mod	el *16		
P	roduct name	Model	length	product *1	Specifications	GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21-W-N
	Q/LCPU direct	GT01-C30R2-6P	3 m	_	For connecting the Q/LCPU and GOT For connecting L6ADP-R2 and GOT/personal computer (GT SoftGOT2000) [MINI-DIN 6-pin ↔ D-sub 9 pin]	•	•	•	•	•	•	• •5 •8	•
	connection cable	GT10-C30R2-6P	3 m		For connecting the Q/LCPU and GOT [MINI-DIN 6-pin \Leftrightarrow separate wire (connector terminal block 9-pin)]	-	-	-	-	-	-	•*6	-
		GT10-030h2-0F	3111	_	For connecting multiple GOTs [MINI-DIN 6-pin ↔ separate wire (connector terminal block 9-pin)]	-	-	-	-	-	-	• •11	-
	FXCPU communication expansion board connection cable FXCPU communication special adapter connection cable	GT01-C30R2-9S	3 m	_	For connecting the FXCPU communication expansion board and GOT/personal computer (GT SoftGOT2000) For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 9-pin ↔ D-sub 9 pin]	•	•	•	•	•	•	● *5 *8	•
RS-232 cable	FXCPU communication special adapter connection cable	GT01-C30R2-25P	3 m	-	For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 25-pin ↔ D-sub 9 pin]	•	•	•	•	•	•	• *5 *8	•
	Computer link connection cable CC-Link (G4) connection cable	GT09-C30R2-9P	3 m	0	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT For connecting a peripheral connection module (AJ65BT-R2N) and the GOT [D-sub 9-pin \Leftrightarrow D-sub 9 pin]	•	•	•	•	•	•	● *5 *8	•
	Computer link connection cable	GT09-C30R2-25P	3 m	0	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT [D-sub 25-pin ↔ D-sub 9 pin]	•	•	•	•	•	•	● *5 *8	•
	RS-232 connector conversion cable	GT10-C02H-6PT9P	0.2 m	-	For connecting a PLC and the GOT For connecting multiple GOTs For connecting a barcode reader, RFID, or serial printer and the GOT [D-sub 9-pin ↔ MINI-DIN 6-pin]	-	-	-	-	-	-	● *11	-
	Data transfer cable	GT01-C30R2-6P	3 m	-	For connecting the GOT and a personal computer [MINI-DIN 6-pin ↔ D-sub 9-pin] * This cable is usable for the FA transparent function only, and cannot be used to transfer screen or OS data.	-	-	-	-	-	_	• *11	-
Conversio external l/	on cable for connecting 'O unit	GT15-C03HTB	0.3 m	0	For connecting an external I/O unit (GT15-DIO) and external I/O interface unit (A8GT-C05TK, A8GT-C30TB, user-fabricated cable) for GOT-A900	•	• *13	-	-	-	-	-	-
Analog R	GB cable	GT15-C50VG	5 m	0	For connecting an RGB image output device (external monitor, personal computer, or others) and the GOT	•	-	-	-	-	-	-	-
USB cable	Data transfer cable Printer connection cable	GT09-C30USB-5P	3 m	0	For connecting a personal computer (screen design software) and the GOT For connecting a personal computer (GT SoftGOT2000) and QnU/L/ FXCPU For connecting a PictBridge-compatible printer and printer unit (GT15-PRN) [USB-A \Leftrightarrow USB Mini-B]	•	•	•	•	•	•	•9	•
Panel-mo	unted USB port extension	GT14-C10EXUSB-4S	1 m	-	For routing the USB port (host) of the GOT rear face to the front side of the control panel	•	•	•	• *17	-	•	-	-
and mo		GT10-C10EXUSB-5S	1 m	-	For routing the USB port (device) of the GOT rear face to the front side of the control panel	● *14	● *14	-	● *17	-	-	● *15	-

*1 FA-LTBGT2R4CBLD, FA-CNV240DCBL are developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office. The other products listed are developed by Mitsubishi Electric Systems & Service Co., LTD. and sold through your local sales office.

*2 This cable is usable for GT2103-PMBD.

*3 This cable is usable for GT2104-RTBD, GT2103-PMBDS.

*4 This cable is usable for GT2104-RTBD, GT2103-PMBDS, GT2103-PMBLS. For GT2103-PMBLS, use a 3 m or shorter cable.

*5 This cable is usable for GT2103-PMBDS, GT2103-PMBDS2.

*6 This cable is usable for GT2104-RTBD, GT2103-PMBDS2.

*7 GT2104-RTBD, GT2103-PMBDS is possible to correspond by combining the GT10-C02H-9SC type RS-422 connector conversion cable *8 GT2103-PMBDS, GT2103-PMBDS2 is possible to correspond by combining the GT10-C02H-6PT9P type RS-232 connector conversion cable.

*9 This cable is not usable for the printer connection.

*10 This cable is usable for GT2104-RTBD, GT2103-PMBDS.

*11 This cable is usable for GT2103-PMBDS, GT2103-PMBDS2. *12 This cable is usable for GT2104-RTBD, GT2103-PMBD, GT2103-PMBDS.

*13 This cable is not usable for GT2505-VTBD.

*14 This cable is usable for GT2712-STWA, GT2712-STWD, GT2710-VTWA, GT2710-VTWD, GT2512F-STNA, GT2512F-STND, GT2510-VTWA, GT2510-VTWD, GT2510F-VTNA, GT2510F-VTND, GT2508-VTWD, GT2508F-VTNA, GT2508F-VTND, GT2508F-

*15 This cable is usable for GT2104-RTBD, GT2103-PMBD, GT2103-PMBDS, GT2103-PMBDS2, GT2103-PMBLS.

*16 Note that the usable connection types and cables differ depending on the GOT model. For the details, please refer to the GOT2000 Series Connection Manual.

*17 When using a rugged model, the panel-mounted USB port extension does not comply with IP66F.

Product List

Cables for GT25 Handy GOT

			Cable	Recommended		Support	ed model
	Product name	Model	length	product '1	Specifications	GT2506 Handy	GT2505 Handy
		GT16H-C30-42P	3 m	-		٠	-
		GT16H-C60-42P	6 m	-	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	•	-
		GT16H-C100-42P	10 m	-		٠	-
		GT16H-C30-37PE	3 m	-		٠	-
	nnection cable the connector conversion box)	GT16H-C60-37PE	6 m	-	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-37S)	٠	-
		GT16H-C100-37PE	10 m	-		•	-
		GT14H-C30-42P	3 m	-		-	•
		GT14H-C60-42P	6 m	-	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	-	•
		GT14H-C100-42P	10 m	-		-	•
External co	nnection cable	GT11H-C30-37P	3 m	-	For connection between the Handy GOT and the connector conversion		•
to connect	the connector conversion box or	GT11H-C60-37P	6 m	-	box (GT16H-CNB-37S and GT11H-CNB-37S) For connection between the Handy GOT and the relay cable	-	•
elay cable)	*2	GT11H-C100-37P	10 m	-	(GT11HC15R□-□P)	-	•
		GT11H-C30	3 m	-		-	•
	nnection cable separate wire) *2	GT11H-C60	6 m	-	For connection between the Handy GOT and the FA device, the power supply, or the operation switch		•
	separate wile) -	GT11H-C100	10 m	-		-	•
Relay cable		GT11H-C15R4-8P	1.5 m	-		-	•
to connect	the external connection cable	GT11H-C15R4-25P	1.5 m	-	For connecting to a programmable controller	-	•
and a progr	rammable controller) *2	GT11H-C15R2-6P	1.5 m	-		-	•
		FA-CNV2402CBL	0.2 m	_	For connecting the OCPU/L02SCPU(-P) and the RS-422 cable (GT01- C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5)	•	•
RS-422 cor	nversion cable	FA-CNV2405CBL	0.5 m	0	For connecting the L6ADP-R2 and the RS-422 cable (GT01-C□R4- 25P, GT10-C□R4-25P, GT21-C□R4-25P5) [MINI-DIN 6-pin ↔ D-sub 25-pin]	•	•
	QnA/A/FXCPU direct connection cable	GT01-C30R4-25P	3 m		For connecting the QnA/ACPU/Motion CPU (A series)/FXCPU and the GOT For connecting the RS-422 connector conversion cable (FA-CNV□CBL) and the GOT	•	•
RS-422	Computer link connection cable CC-Link (G4) connection cable	GT01-C100R4-25P	10 m	_	For connecting the serial communication module and the GOT For connecting the peripheral connection module (AJ65BT-G4-S3) and the GOT [D-sub 25-pin ⇔ D-sub 9-pin]	٠	•
cable *3		GT09-C30R4-6C	3 m		For connecting the serial communication module and GOT	•	•
	Computer link connection cable	GT09-C100R4-6C	10 m	0	For connecting a computer link module and GOT [separate wire ↔ D-sub 9-pin]	•	
			-		[separate wire \Leftrightarrow D-sub 9-pin]	•	-
	FXCPU direct connection cable	GT01-C10R4-8P	1 m		For connecting the FXCPU and GOT	•	•
	FXCPU communication expansion board connection	GT01-C30R4-8P	3 m	-	For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ D-sub 9 pin]	•	•
	cable	GT01-C100R4-8P	10 m		[iviivi-Divi o-biu ⇔ D-sub a biu]	٠	•
	Q/LCPU direct connection cable	GT11H-C30R2-6P	3 m	-	For connecting a QCPU or LCPU and the connector conversion box for Handy GOT (GT11H-CNB-37S/GT16H-CNB-42S)	•	•
	EXCPU communication expansion board connection cable EXCPU communication special adapter connection cable	GT01-C30R2-9S	3 m	_	For connecting the FXCPU communication expansion board and GOT/ personal computer (GT SoftGOT2000) For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 9-pin ↔ D-sub 9 pin]	•	•
RS-232 cable	FXCPU communication special adapter connection cable	GT01-C30R2-25P	3 m	-	For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 25-pin ⇔ D-sub 9 pin]	•	•
	Computer link connection cable CC-Link (G4) connection cable	GT09-C30R2-9P	3 m	0	For connecting a serial communication module and GOT For connecting a computer link module and GOT For connecting the peripheral connection module (AJ65BT-R2N) and GOT [D-sub 9-pin ↔ D-sub 9 pin]	•	•
	Computer link connection cable	GT09-C30R2-25P	3 m	0	For connecting a serial communication module and GOT For connecting a computer link module and GOT [D-sub 25-pin ⇔ D-sub 9 pin]	•	•
USB cable	Data transfer cable Printer connection cable	GT09-C30USB-5P	3 m	0	For connecting a personal computer (screen design software) and GOT For connecting a personal computer (GT SoftGOT2000) and QnU/L/ FXCPU For connecting a PictBridge-compatible printer and printer unit (GT15- PRN) [USB-A ↔ USB Mini-B]	•	•

*1 FA-CNV240□CBL is developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office. The other products listed are developed by Mitsubishi Electric Systems & Service Co., LTD. and sold through your local sales office.

*2 Use the cable version C or later.

*3 The total length of the cables between the Handy GOT and a controller includes the length of an external cable. A cable of 20 m or longer cannot be used for GT2506HS-VTBD and GT2505HS-VTBD.

Cables for non-Mitsubishi FA products

RS-232 and RS-422 cables are available from every manufacturer. For more details, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/) or the GOT2000 Series Connection Manual.

Manuals

Manual name	Manual number
GOT2000 Series User's Manual (Hardware)	SH-081194ENG
GOT2000 Series User's Manual (Utility)	SH-081195ENG
GOT2000 Series User's Manual (Monitor)	SH-081196ENG
GOT2000 Series Connection Manual (Mitsubishi Products) For GT Works3 Version1	SH-081197ENG
GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1	SH-081867ENG
GOT SIMPLE Series User's Manual	JY997D52901I
GT Designer3 (GOT2000) Screen Design Manual	SH-081220ENG

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Support

Approval standards

Mitsubishi's products comply with various standards and laws.

Mitsubishi's products also comply with various international standards including UL standards, and maritime certifications. For the details on the approval model within each standard, please contact your local sales office.

<International standards>

Mark	Overview	Country/Region
CE	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	EU member states
Ex	ATEX Directive harmonized standards	EU member states
UKCA	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards, ATEX Directive harmonized standards	Great Britain (England, Wales and Scotland)
UL	Safety standards Class I, Division 2	United States
cUL	Safety standards Class I, Division 2	Canada
кс	EMC standards	Korea
KCs	Safety standards	Korea

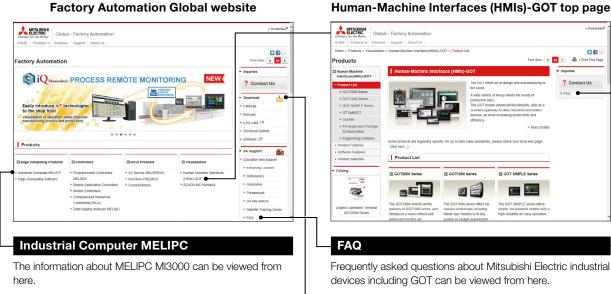
<Maritime certifications>

Abbrev.	Certification Organization	Country
ABS	American Bureau of Shipping	United States
BV	Bureau Veritas	France
DNV	DNV AS	Norway
LR	Lloyd's Register	England
NK	NIPPON KAIJI KYOKAI	Japan
RINA	Registro Italiano Navale	Italy

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www.MitsubishiElectric.com/fa/

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Human-Machine Interfaces (HMIs)-GOT top page

Download

Various documents such as catalogs, manuals, and technical bulletins can be downloaded.

MELIPC MI3000

Related products

MELIPC *M*|3000

Panel computers equipped with integrated touch screens





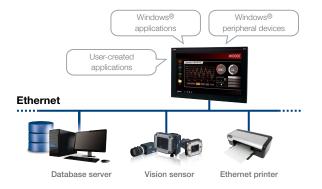
Beautiful, stunning, large screen monitor

Large 21.5-inch widescreen display and 15inch display models are available. Colorful images are displayed with 16.77 million colors. Light-touch operation is realized with a PCAP touch panel that is widely used for smartphones and tablet devices.

ltem	Specifications
Display	15"/21.5", TFT color LCD, 16.77 million colors
Resolution	Full HD, XGA
Backlight	LED
Internal storage	64 GB
Standard interface	Ethernet (3 ports), RS-232, RS-422/485, DisplayPort USB host (USB-A): 2 channels (USB 2.0), 2 channels (USB 3.0) Sound output
Extension interface	PCI Express [®] x 1 slot, (half size) x 1 mini PCI Express [®] Full size x 2 M.2 (2280) SATA x 1

Windows[®] 10 IoT Enterprise pre-installed

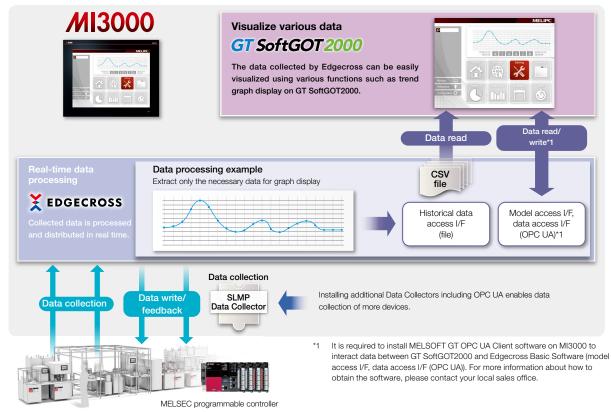
Not only familiar Windows® applications, but also usercreated applications can be used to configure systems that meet requirements of individual customers.





Various software pre-installed

Edgecross Basic Software, SLMP Data Collector, and GT SoftGOT2000 are pre-installed on MI3000. The data collected by Edgecross, SLMP Data Collector, and GT SoftGOT2000 can be monitored on the GT SoftGOT2000 screen.



■ MELIPC MI3000 external appearance [rear face]

DisplayPort

Output to an external monitor. Screen can be displayed on a larger monitor.

2 M.2 (2280) SATA (inside the cover)

Expand storage for collecting and storing large amounts of data.

84 PCI Express[®]/mini PCI Express[®] (inside the cover) Expand functions by using an expansion board.

Sound output For outputting sound by connecting a speaker with built-in amplifier.

To use sound notification on GT SoftGOT2000, sound files can be easily created with GT Designer3.

67 USB3.0/USB2.0

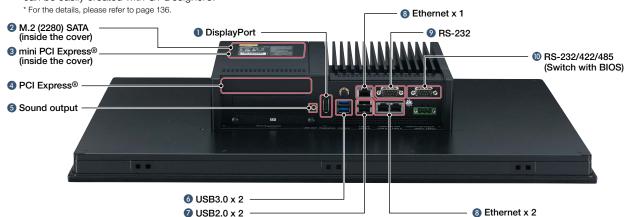
Each interface has two ports for connecting to various USB compatible devices.

8 Ethernet (LAN A, LAN B, LAN C)

Various Ethernet compatible devices can be connected to three ports. The network in the office can be separated from the one in the shop floor to enhance security.

20 RS-232/422/485

For data collection from existing facilities.



MELIPC MI3000

MELIPC MI3000

General specifications

Item		Specifications	
Operating ambient temperature		0 °C to 55 °C	
Storage ambi	ent temperature	-20 °C to 60 °C	
Operating am	bient humidity	10% RH to 90% RH, non-condensing	
Storage ambi	ent humidity	10% RH to 90% RH, non-condensing	
Vibration resistance	Random vibration	Compliant with IEC 60068-2-64, 5 to 500Hz, one hour in direction X, Y, Z each	
		3 Grms	
Shock resistance		Compliant with IEC 60068-2-27, 10 G, half sine wave, 11 msec	
Operating atmosphere		No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)	
Operating altitude *3*4		-	
Installation loc	cation	Inside control panel	
Overvoltage c	ategory *1	II or less	
Pollution degree *2		2 or less	
Cooling method		Self-cooling	
Grounding		Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm ² or more.	

Power supply specifications

Item		Specifications		
		MI3321G-W	MI3315G-W	
Rated input voltage		24 V DC		
Input voltage va	riable range	19.2 to 2	8.8 V DC	
Power	Under the maximum load	90 W		
consumption	Stand alone	27 W		
Applicable wire size		Single wiring (single wire, stranded wire): 0.2 to 2.5 mm ² (AWG24 to AWG14) Rod terminal with an insulation sleeve: 0.25 to 2.5 mm ² (AWG22 to AWG14) Double wiring (single wire, stranded wire): 0.2 to 1.5 mm ² (AWG24 to AWG16)		
Applicable solderless terminal		DN00508D (AWG20), DN00708D (AWG18), DN01508D (AWG16) (manufactured by DINKLE) Crimp tool: DNT13-0101 (manufactured by DINKLE)		
Applicable tightening torque (for terminal block terminal screws)		0.20 N·m (M2.5)		

*3 Do not use or store the product under pressure higher than the atmospheric pressure of altitude 0 m. Doing so may cause malfunction.

No limitations to altitude. When used at a high altitude, the upper limits of the permissible voltage and the operating ambient temperature become lower. Please check performance before use at the customer side. *4

This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V. *1

*2 This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.

Performance specifications

			Specific	cations		
Item			MI3321G-W	MI3315G-W		
	Display device		TFT col	or LCD		
Screen size Display section Resolution			21.5" widescreen 15*			
			Full HD: 1920 × 1080	XGA: 1024 × 768		
*1 *2	Display color		16.77 million			
	Backlight		LED backlight (not replaceable)			
	Backlight life		ELE De derivagini (non replacedancia) 50,000 hours			
	Туре		PCAP (Projected Capacitive)			
Touch panel	Simultaneous pre		Max. 10 keys *3			
rodon panor	Transmittance		90%			
Panel color	indi lomit da loo		Bla			
	MPU		Intel® Core™ i3-6100L			
		RAM	8 (
Hardware	Memory capacity	ROM	64			
Haluwale	Capacity	Replacement	Not repla			
	Battery	Life	4 ve			
	OS	LIIE	4 ye Windows® 10 IoT Enter			
Software	L					
A . L. 1917 L	System language		At initial star	tup: English		
Additional storage	Interface		M.2(2280) S/	ATA SSD x 1		
Extension	PCI Express®		x1 slot, (ha	lf size) x 1		
interface	mini PCI Express	0	Full siz	re x 2		
		Interface	DisplayF	Port 1.4		
	Display	Connector	DisplayPort connector			
	(for external monitor output)	Number of ports	1			
		Resolution*5	Max. 384	0 x 2160		
		Interface	10BASE-T, 100BASE-TX, 1000BASE-T (AUTO MDI/MDI-X)			
	Ethernet (LAN A, LAN B,	Number of ports	3			
	LAN C)	Connector for external wiring	RJ45			
		Number of ports	1			
		Transmission speed	300 to 11			
	RS-232	Connector for				
Built-in interface		external wiring	D-sub 9-p			
		Interface	RS-232, RS-422, RS- Default: F			
	RS-232/ RS-422/	Number of ports	1			
	RS-485	Transmission speed	300 to 11	5200 bps		
		Connector for external wiring	D-sub 9-r	bin (male)		
	USB	Number of ports	• USB • USB			
	038	Connector	USB T			
		Interface	Audio L			
	Sound output	Number of ports				
	Cound Output	Connector	1 @2.5 mini isok (2. mono)			
		Connector	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
Built-in clock pre	cision	Daily difference: -2 seconds to +2 seconds Monthly difference: -60 seconds to +60 seconds		econds to +60 seconds		
POWER LED			2 colors (blue and orange)			
Protective structure			Front: IP66			
Safety standards	, radio laws (as of .	June 2023)	CE, UKCA, UL, cUL, ł	KC, BSMI, CCC, FCC		
External dimension			349.8(13.77) (H) × 558.4(21.98) (W) × 88.8(3.50) (D) mm(inch) 307.3(12.10) (H) × 383.2(15.09) (W) × 86(3.39) (D) mm(inch)			
			298.5(11.75) (H) × 374.5(14.74) (W) mm(inch)			
	Weight		9.8(21.6) kg(lb)	7.0(15.4) kg(lb)		

As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged. *1

*2 Flickering may occur due to vibration, shock, or the display colors.

*3 Multiple touch keys cannot be pressed simultaneously while GT SoftGOT2000 is used.

*4 The battery cannot be removed by users. For the battery replacement, please contact your local sales office. *5

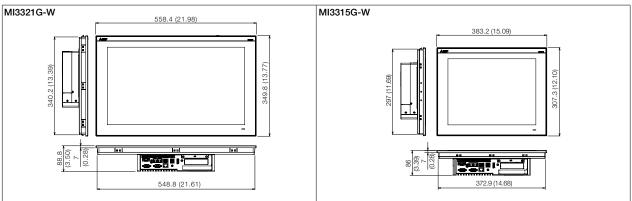
Maximum resolution at 60 Hz.

*6 The interface can be switched between RS-232, RS-422, and RS-485 with the BIOS.

MELIPC MI3000

Unit : mm (inch)

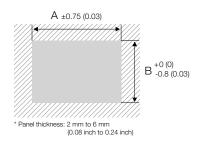
External dimensions



Panel cut dimensions

Screen size	Model	А	В
21.5" widescreen	M3321G-W	550.3 (21.67)	341.8 (13.46)
15"	M3315G-W	374.5 (14.74)	298.5 (11.75)

Unit : mm (inch)



Product list

MELIPC

Product name	Model	Screen size	Panel color	Outline
MELIPC MI3000	MI3321G-W	21.5" widescreen, Full HD		Edgecross Basic Software, SLMP Data Collector,
	MI3315G-W	15" XGA	Black	GT SoftGOT2000 pre-installed

Option

Product name	Model	Outline
	Q81BD-J71GF11-T2	PCI Express® bus compatible, CC-Link IE Field Network (master/local station)
Network interface board	Q81BD-J71GP21-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station)
	Q81BD-J71GP21S-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station), with external power supply function

Engineering tool

Product name	Model	Outline	
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-EC	English Version	Site license product *1
GT Works Text to Speech License *2	SW1DND-GTVO-M	Standard license product	
GOT Mobile Function License for	SGT2K-WEBSKEY-1 1 license		
GT SoftGOT2000 *3 NEW	SGT2K-WEBSKEY-5	5 licenses	

Anyone can use the product as long as that person belongs to the business office (including overseas offices) of the corporation that purchased the product, or to the same public vocational training facility or other educational institution as the corporation. *1

*2 To edit sound files, each personal computer requires one license.
 *3 One license is required for each personal computer on which GT SoftGOT2000 is installed.



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Ribbi Billi



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The release date varies depending on the product and your region. For details, please contact your local sales office.

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