

New inverter kit from Mitsubishi Electric speeds up setup and simplifies maintenance

15 March 2023

Mitsubishi Electric has released an innovative 24VDC digital input plug-in module for its FR-E800 range of variable speed drives (VSDs). Developed to support setup and maintenance activities, the FR-E8DS keeps the node active when the main power source is turned off. This improves flexibility and reduces energy requirements whilst enabling users to interact with the control section without the need for an industrial power supply.

Wayne Turtill, Product Manager Drives & LVS at Mitsubishi Electric

Easy to add to FR-E800 drives, the FR-E8DS module offers a tool to leverage a low voltage supply in order keep core functions available when power from the mains is removed from the VSD. More precisely, the operation panel remains active, as do Ethernet and RS-485 communications between the VSD and other devices. Also, the unit can turn on and off any I/O terminals linked to the drive.

Maintenance can therefore be performed effectively and without the need for more demanding 200V or 400V energy sources, which are typically used to power VSDs. By leveraging this kit, drive availability is optimised, as parameter setting and communication operations can be quickly carried out, even when the device is removed from its application. Operators can also interrogate the inverter from the PLC and parameterise it.

Wayne Turtill, Product Manager Drives & LVS at Mitsubishi Electric, explains: "You generally need 200V or 400V to power a drive, even in

standby mode. The new solution allows you to plug a 24V power supply into the drive and turn off the mains connection. The supply keeps the control electronics and networks alive inside the drive. When inspecting an inverter, it means that you can set this drive up on your desk without requiring a 400 V or 200 V power supply that may not be accessible.”

Even more, the FR-E8DS kit also facilitates troubleshooting. Once connected, if a fault occurs, its indication remains active even when the drive is removed from the main power supply. Once diagnostics and maintenance activities have been completed, reconnecting FR-E800 units is straightforward, as turning on the main circuit power whilst the 24V external power supply is active switches the operation to ‘normal’ mode.

The FR-E8DS module comes with two front cover options for installation within the FR-E800 unit. More precisely, in place of the standard plug-in option, users can use a smaller alternative if there is limited room available. Connectors, spacers and screws are also included in the kit to provide a complete solution.

Wayne Turtill concludes: “Offering value-adding solutions to our customers is our top priority. This is why we continue to invest in the development of new technologies that can improve maintenance, reliability and energy efficiency. Our latest FR-E8DS E-kit addresses these goals, greatly benefitting FR-E800 users. By leveraging it, customers can maximise the effectiveness of their drives and the processes they support, as well as any activity to improve overall operational performance.”

Image captions:

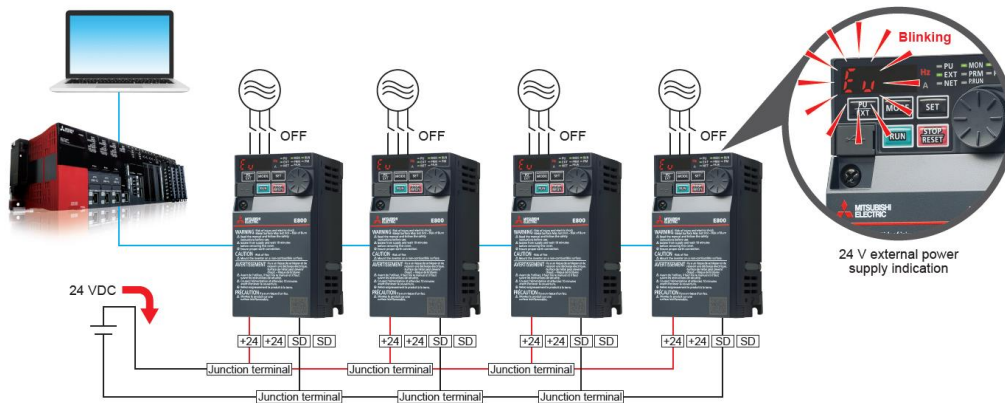


Image 1: The FR-E8DS has been developed to support setup and maintenance activities, keeping the node active when the main power source is turned off – improving flexibility and reducing energy requirements

[Source: Mitsubishi Electric Europe B.V.]



Image 2: Wayne Turtill, Product Manager Drives & LVS at Mitsubishi Electric

[Source: Mitsubishi Electric Europe B.V.]

The image(s) distributed with this press release are for Editorial use only and are subject to copyright. The image(s) may only be used to accompany the press release mentioned here, no other use is permitted.

Note to Editor: if you would like the text in another language, please contact Kiki Anderson at DMA Europa – kiki.anderson@dmaeuropa.com

About Mitsubishi Electric

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its “Changes for the Better.” The company recorded a revenue of 4,476.7 billion yen (U.S.\$ 36.7 billion*) in the fiscal year ended March 31, 2022. For more information, please visit www.MitsubishiElectric.com

Mitsubishi Electric Europe, Industrial Automation – UK Branch is located in Hatfield, United Kingdom. It is a part of the European Factory Automation Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Industrial Automation – UK Branch is to manage sales, service and support across its network of local branches and distributors throughout the United Kingdom.

**U.S. dollar amounts are translated from yen at the rate of ¥122=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2022.*

Further Information:

gb.mitsubishielectric.com/fa

Follow us on:



youtube.com/user/MitsubishiFAEU



twitter.com/MEUKAutomation



[linkedin.com Mitsubishi Electric - Automation Systems UK](https://linkedin.com/Mitsubishi%20Electric%20-%20Automation%20Systems%20UK)



facebook.com/MEUKAutomation

Press contact:

Mitsubishi Electric Europe B.V.

Automation Systems Division

Melanie Bright

Marketing Communications Manager

Mob.: +44 (0) 7738 483859

automation@meuk.mee.com

gb3a.mitsubishielectric.com

PR agency:

DMA Europa

Kiki Anderson

Progress House, Great Western Avenue, Worcester, Worcestershire,

WR5 1AQ, UK

Tel.: +44 (0) 1905 917477

Fax: +44 (0) 1905 917477

kiki.anderson@dmaeuropa.com

<http://www.dmaeuropa.com/>