

EC Declaration of Conformity



Document No. JY992D67201J

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Authorized Representative in the European Community:
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Address: Gothaer Str.8, 40880 Ratingen, Germany

Products Type: Programmable Controller
(Open Type Equipment, Installation category II)
Models: MELSEC FX2N series
(EMC applicable units identified in Appendix 1)
(LVD applicable units identified in Appendix 2)

The above mentioned products comply with the following European directives:

Directive	Remark
2004/108/EC	Electromagnetic Compatibility Directive (EMC)
2006/95/EC	Low Voltage Directive (LVD)

Further particulars about the conformity with these directives are contained in the appendices.
CE-marking was first applied July 97 for EMC and LVD.

Writer: Fumiya Hosokawa (PLC Design Section 1 Group)
Place: Mitsubishi Electric, Himeji Works, Himeji, Japan Date: 30 June, 2010

Signature of representative
for the Manufacturer: Yutaka Kobayashi
(Himeji Works Industrial Apparatus Divisional Manager)
Date: 30 June 2010

Signature of representative
for the Authorized Representative: Albert Ganz
(Mitsubishi Electric Europe B.V., FA European Business Group,
FA European Development Centre, Division Manager)
Place: Mitsubishi Electric Europe B.V. - European Business Group, Ratingen, Germany
Date: 8. July 2010

The appendices are part of this declaration. This declaration certifies the conformity with the directives mentioned, but does not contain any warranted qualities. The installation, usage and safety directions of the product documentation have to be observed.

Appendix 1 - FX2N type programmable controllers with regard to EMC

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Products: The following products produced from July 1997 are covered by this declaration.

Product Name			
FX2N-16MR -ES/UL	FX2N-16MT -ESS/UL	FX2N-32ER -ES/UL	FX2N-16EX -ES/UL
FX2N-32MR -ES/UL	FX2N-32MT -ESS/UL	FX2N-32ET -ESS/UL	FX2N-16EYR -ES/UL
FX2N-48MR -ES/UL	FX2N-48MT -ESS/UL	FX2N-48ER -ES/UL	FX2N-16EYT -ESS/UL
FX2N-64MR -ES/UL	FX2N-64MT -ESS/UL	FX2N-48ET -ESS/UL	FX2N-422-BD
FX2N-80MR -ES/UL	FX2N-80MT -ESS/UL	FX2N-232-BD	FX2N-8AV-BD
FX2N-128MR -ES/UL	FX2N-128MT -ESS/UL	FX2N-485-BD	FX2N-CNV-IF
FX2N-CNV-BD			

The following products produced from April 1998 are covered by this declaration.

Product Name			
FX2N-32MR -DS	FX2N-32MT -DSS	FX2N-48ER -DS	
FX2N-48MR -DS	FX2N-48MT -DSS	FX2N-48ET -DSS	
FX2N-64MR -DS	FX2N-64MT -DSS		
FX2N-80MR -DS	FX2N-80MT -DSS		

The following products produced from July 1997 are covered by this declaration.

Product Name				
FX2N-1PG-E	FX2N-1HC	FX2N-232IF	FX2N-4AD	FX2N-4DA

The following products produced from December 1997 are covered by this declaration.

Product Name			
FX2N-4AD-TC			

The following products produced from February 1998 are covered by this declaration.

Product Name			
FX2N-4AD-PT			

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The following products produced from February 1998 are covered by this declaration.

Product Name			
FX2N-4AD-PT			

The following products produced from March 1998 are covered by this declaration.

Product Name			
FX2N-1RM-E -SET			

The following products produced from August 1998 are covered by this declaration.

Product Name			
FX2N-16MR -UA1/UL	FX2N-32MR -UA1/UL	FX2N-48MR -UA1/UL	FX2N-64MR -UA1/UL
FX2N-48ER -UA1/UL	FX2N-16MR -DS	FX2N-16MT -DSS	

The following products produced from December 1998 are covered by this declaration.

Product Name			
FX2N-2AD	FX2N-2DA		

The following products produced from January 1999 are covered by this declaration.

Product Name			
FX2N-32ASI-M			

The following products produced from February 1999 are covered by this declaration.

Product Name			
FX2N-16LNK-M			

The following products produced from April 1999 are covered by this declaration.

Product Name			
FX2N-32DP-IF	FX2N-32DP-IF-D		

The following products produced from June 1999 are covered by this declaration.

Product Name			
FX2N-32CCL			

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The following products produced from October 1999 are covered by this declaration.

Product Name			
FX2N-10GM			

The following products produced from December 1999 are covered by this declaration.

Product Name			
FX2N-20PSU			

The following products produced from February 2000 are covered by this declaration.

Product Name			
FX2N-20GM			

The following products produced from March 2000 are covered by this declaration.

Product Name			
FX2N-2LC			

The following products produced from May 2000 are covered by this declaration.

Product Name			
FX2N-64DNET			

The following products produced from June 2000 are covered by this declaration.

Product Name			
FX2N-8AD	FX2N-20GM-6L		

The following products produced from June 2001 are covered by this declaration.

Product Name			
FX2N-16CCL-M	FX2N-10PG	FX2N-2AD-LT	

The following products produced from July 2001 are covered by this declaration.

Product Name			
FX2N-ROM-E1			

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The following products produced from November 2001 are covered by this declaration.

Product Name			
FX2N-32CAN			

The following products produced from October 2002 are covered by this declaration.

Product Name			
FX2N-32MT-ESSBS	FX2N-4DA-BS		

The following products produced from February 2003 are covered by this declaration.

Product Name			
FX2N-64CL-M			

The following products produced from November 2003 are covered by this declaration.

Product Name			
FX2N-5A			

The following products produced from August 2005 are covered by this declaration.

Product Name			
FX2N-8ER -ES/UL	FX2N-8EX -ES/UL	FX2N-8EYR -ES/UL	FX2N-8EYT -ESS/UL

The conformity of the mentioned products with the regulations of the Directive 2004/108/EC for Electromagnetic Compatibility is shown by application of Test Reports. This is supported by selected product tests to the following EMC harmonized standards directly and indirectly.

Note: The mentioned products must be used as directed by the associated documentation in order to provide full compliance.

Harmonised European Standards: EN61000-6-4:2007
EN61000-6-2:2005*1
EN61131-2:2007*1*4

The EMC agreement declaration of Mitsubishi FX2N series is done by self-declaration based on the test result of the following Test Laboratories. *2

Test laboratory and document No.;

ERA Technology Ltd;	5044/12S5/2*3
	5044/12M3/2*3
NEMCO Certificate;	199804199
	199902119

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Test laboratory and document No.;

NEMCO Certificate;	199902120
	199909152
	199909151
	199915271

DAR Certificate;	TAD979161
	TAD979162
	TAD97X261
	TAN983161
	S1A987482
	S1A98X331
	S2A98X211
	S2B98Y351
	S1R99X371
	S2B002391
	S1R003371
	S2B004522
	S1R006451
	S2B004521

SEMCO Certificate;	210028
	9951172V
	0121039V
	0201067V

A-pex International Co., Ltd. YOKOWA LAB.;	22DE0016-YW
	22DE0017-YW-4
	22EE0084-YW-2
	22GE0063-YW-2
	22CE0085-YW
	22DE0019-YW-1

UL Apex Co., Ltd.;	23DE0108-YW
	24BE0066-YW
	26IE0077-YW
	26HE0026-YW
	26HE0125-YW
	26HE0257-YW-A
	26HE0257-YW-B
	26HE0257-YW-C
	26HE0257-YW-D
	26HE0257-YW-E
	26HE0257-YW-F

UL Japan, Inc.;	25LE0181-YW
	29DE0074-YW

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Test laboratory and document No.;

Cosmos Corporation Matsusaka EMC Center	S88387-3
	S88387-7
	S88387-8
	S88387-9
	S88387-11
	S88387-12
	S88387-13
	S88387-14
	S88387-15
	S88387-16
	S094662-4
	S095001-3
	S095001-4
	S095001-5

{Explanation:*1}

All listed products except for FX2N-20PSU comply with EN61131-2:2007 with regard to EMS.
FX2N-20PSU complies with EN61000-6-2.

{Explanation:*2}

Some of these test reports were made based on EN50081-2:1993.

(In the examination items required for the FX0N Series PLC, there are no differences between EN50081-2:1993 and EN61000-6-4:2007.)

{Explanation:*3}

These test reports are made based on BS EN50081-2:1994.

(In the examination items required for the FX0N Series PLC, there are no differences between BS EN50081-2:1994 and EN61000-6-4:2007.)

{Explanation:*4}

For compliance with EN61131-2:2007 for some products, the power supply cable must conform to the following requirements:

- The FX2N-1PG-E, FX2N-10PG, FX2N-10GM, FX2N-20GM, FX2N-2LC, FX2N-5A units require that the cable used for power supply is 30m or less.
- The FX2N-8AD unit requires that the cable used for power supply is 30m or less.

When the cable used for power supply exceeds 30m, a noise filter (Ex. TDK-Lambda MBS1205-22 or similar) should be placed on the DC24V power cabling as close (within 500mm) to the FX2N-8AD termination points as possible.

Appendix 2 - FX2N type programmable controllers with regard to LVD

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Products: The following products produced **from July 1997** are covered by this declaration.

Product Name			
FX2N-16MR -ES/UL	FX2N-16MT -ESS/UL	FX2N-32ER -ES/UL	FX2N-16EYR -ES/UL
FX2N-32MR -ES/UL	FX2N-32MT -ESS/UL	FX2N-32ET -ESS/UL	
FX2N-48MR -ES/UL	FX2N-48MT -ESS/UL	FX2N-48ER -ES/UL	
FX2N-64MR -ES/UL	FX2N-64MT -ESS/UL	FX2N-48ET -ESS/UL	
FX2N-80MR -ES/UL	FX2N-80MT -ESS/UL		
FX2N-128MR -ES/UL	FX2N-128MT -ESS/UL		

The following products produced **from April 1998** are covered by this declaration.

Product Name			
FX2N-32MR -DS	FX2N-48MR -DS	FX2N-64MR -DS	FX2N-80MR -DS
FX2N-48ER -DS			

The following products produced **from August 1998** are covered by this declaration.

Product Name			
FX2N-16MR -UA1/UL	FX2N-32MR -UA1/UL	FX2N-48MR -UA1/UL	FX2N-64MR -UA1/UL
FX2N-48ER -UA1/UL	FX2N-16MR -DS		

The following products produced **from February 1999** are covered by this declaration.

Product Name			
FX2N-16LNK-M			

The following products produced **from April 1999** are covered by this declaration.

Product Name			
FX2N-32DP-IF			

(Appendix 2 - FX2N type programmable controllers with regard to LVD)

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The following products produced from December 1999 are covered by this declaration.

Product Name			
FX2N-20PSU			

The following products produced from August 2005 are covered by this declaration.

Product Name			
FX2N-8ER-ES/UL	FX2N-8EYR-ES/UL		

The conformity of the mentioned products with the regulations of the Directive 2006/95/EC for Low Voltage is shown by application of a Test Reports. This is supported by selected product tests to the following LVD harmonized standards directly and indirectly.

Note: The mentioned products must be used as directed by the associated documentation in order to provide full compliance.

Harmonized European Standards: EN61010-1:2001*5
EN61131-2:2007*5

The LVD agreement declaration of Mitsubishi FX2N series is done by self-declaration based on the test results of the following Test Laboratory and the investigation in Himeji works.

Test laboratory and document No.;

for EN61010-1

ERA Technology Ltd; 98-0143
98-0144
98-0145

for EN61131-2

A-pex International Co., Ltd. YOKOWA LAB. 21FS0175
UL Apex Co., Ltd. 06CA12192
06CA17053A
06CA17053B
Cosmos Corporation CJ09-084739S
CJ09-087785S
CJ09-087786S

{Explanation:*5}

All listed products except for FX2N-20PSU comply with EN61131-2:2007.

FX2N-20PSU complies with EN61010-1:2001.