

EC Declaration Of Conformity



Document No. JY992D67201E, June 2004

Manufacturer: Mitsubishi Electric Corporation, Himeji Works,
Address: 840 Chiyoda-Machi, Himeji, Hyogo, 670 Japan.

Manufacturers Agent: Mitsubishi Electric Europe B.V. - European Business Group (MEU-EBG)
Address: Gothaer Str.8, 40880 Ratingen/ P.O. Box 1548, 40835 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
89/336/EEC	Electromagnetic compatibility directive (EMC)
73/23/EEC	Low voltage directive (LVD)

Further particulars about the conformity with these directives are contained in the appendices.

CE-marking was first applied July 1997 for EMC and LVD.

Writer: Takahito Yoshimura (PLC Design Section Group)

Place: Mitsubishi Electric, Himeji Works, Himeji, Japan

Date: June 2004

Signature of representative

for the Manufacturer:

Yoshiyuki Okumura

(Himeji Works Industrial Apparatus Divisional Manager)

Place: Mitsubishi Electric, Himeji Works, Himeji, Japan

Date: June 2004

Signature of representative

for the Manufacturers Agent:

Julia Juch

(Mitsubishi Electric Europe B.V. - European Business Group, Executive Vice-President)

Place: Mitsubishi Electric Europe B.V. - European Business Group, Ratingen, Germany

Date: June 2004

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-16Z-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

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

Product Name			
FX2N-16MR -DS	FX2N-32MT -DSS	FX2N-48ER -DS	
FX2N-32MR -DS	FX2N-48MT -DSS	FX2N-48ET -DSS	
FX2N-48MR -DS	FX2N-64MT -DSS		
FX2N-64MR -DS	FX2N-80MT -DSS		
FX2N-80MR -DS			

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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

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

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			

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			

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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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-32CCL/CE	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			

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

Product Name			
FX2N-32CCL			

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 *2			

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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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 January 2001 are covered by this declaration.

Product Name			
FX2N-64DP-M			

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

Product Name			
FX2N-16CCL-M	FX2N-10PG		

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

Product Name			
FX2N-ROM-E1			

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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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 February 2003 are covered by this declaration.

Product Name			
FX2N-64CL-M *3			

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

Product Name			
FX2N-5A *3			

The conformity of the mentioned products with the regulations of the Directive 89/336/EEC for Electromagnetic Compatibility is shown by application of a Technical Construction File. This is supported by selected product tests to the following EMC standards directly and indirectly (when Generic EMC standards are used).

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

Harmonised European Standards:

Reference No.	Date of Issue:
EN50081-2	1994
EN50081-2	1993
EN50082-1	1992
prEN50082-2	1992
EN50082-2	1995
EN61000-6-2	2001 *2
EN61131-2	1994 *2
EN61131-2 Amendment 11	1996 *2
EN61131-2 Amendment 12	2000 *2
EN61000-6-4	2001

IEC or EN Standards

Reference No.	Date of Issue
IEC801-2	1984
IEC801-3	1984
IEC801-4	1988
EN61000-4-2	1995
EN61000-4-3	1997
EN61000-4-4	1995
EN61000-4-5	1995
EN61000-4-6	1996
EN61000-4-8	1993
EN61000-4-11	1994
IEC61000-4-3	1995
IEC61000-4-12	1995
EN61000-4-3	1996
EN55011	1998

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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{Explanation:*1}

All listed products are certificated from C.B (ex. ERA) in according to EN50081-2 and EN50082-2 , except of FX2N-232IF, FX2N-4AD and FX2N-4DA. These three products are certificated from C.B in according to EN50081-2, EN50082-1 and prEN50082-2.

{Explanation:*2}

From April 1st 2002, all listed products except for FX2N-20PSU comply with EN61131-2 with regard to EMS. FX2N-20PSU complies with EN61000-6-2.

{Explanation:*3}

The products marking “*3” complies with EN61131-2:1994 +A11:1996+A12:2000 and EN61000-6-4:2001.

Declaration of conformity

(Appendix 1 - FX2N type programmable controllers with regard to EMC)

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The Mitsubishi FX2N TCF (EMC - ORIGINAL FILE) Technical Construction File (and amendments) is stored at the following location under the identified reference:

Competent Body: ERA Technology Ltd
Address: Cleve Road, Leatherhead, Surrey, England

Competent Body/NAMAS Accreditation Number: 0053

ERA TCF Reference Number: 5044/12S5/2
5044/12M3/2

Competent Body: NEMCO Certificate; FX2N Basic Models; Special Function Blocks
Reference No.; 199804199, 199902119, 199902120
199909152, 199909152,
199909151, 199915271

DAR Certificate; FX2N Basic Models, Special Function Blocks
Reference No.; TAD979161, TAD979162, TAD97X261, TAN983161
S1A987482, S1A98X331, S2A98X211, S2B98Y351
S1R99X371, S2B002391, S1R003371, S2B004522
S1R006451, S2B004521, 210028

SEMCO Certificate; FX2N Special Function Block
Reference No.; 9951172V, 0121039V, 0201067V

Test laboratory: A-pex International Co., Ltd; FX2N-Basic Models, Special Function Blocks
Test Report No.; 22DE0016-YW, 22DE0017-YW-4, 22EE0084-YW-2
22GE0063-YW-2, 22CE0085-YW, 22DE0019-YW-1

UL Apex Co.,Ltd; FX2N, Special Function Blocks
23DE0108-YW, 24BE0066-YW

The EMC agreement declaration of Mitsubishi FX2N series without the certificate of Competent Body is done by self-declaration based on the test result of the above Test Laboratory.

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-16MR -DS	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			

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

Product Name			
FX2N-16LNK-M			

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

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

Product Name			
FX2N-32DP-IF			

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

Product Name			
FX2N-20PSU *4			

The conformity of the mentioned products with the regulations of the Directive 73/23/EEC for Low Voltage is shown by application of a Technical Construction file. This is supported by selected product tests to the following LVD standards directly and indirectly (where noted).

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

Harmonised European Standards:

IEC Standards

Reference No.	Date of Issue:	Reference No.	Date of Issue
BSEN61010-1	1993 *3	IEC1010-1	1990
EN61131-2	1994 *4	IEC1010-1 Amendment 1	1992
EN61131-2 Amendment 11	1996 *4		
EN61131-2 Amendment 12	2000 *4		

{Explanation:*3}

Compliance to BSEN61010-1 is claimed through virtue of direct compliance to IEC1010-1 and Amendment 1 in addition to the previously identified EMC conformance - see Appendix 1.

{Explanation:*4}

From April 1st 2002, all listed products except for FX2N-20PSU comply with EN61131-2. FX2N-20PSU complies with BSEN61010-1.

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

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The Mitsubishi FX2N Range Of Main Processing Units And Powered Extension Units LVD TCF (Original File) Technical Construction File (and amendments) and the Mitsubishi FX2N Unpowered Extension Modules LVD TCF (Original File) Technical Construction File (and amendments) are stored at the following location under the identified reference:

(With regard to EN61010-1)

Competent Body: ERA Technology Ltd
Address: Cleeve Road, Leatherhead, Surrey, England

ERA LVD Test Report Numbers: 98-0143
98-0144
98-0145

ERA Project Numbers: 25-01-4146/120
25-01-4146/1235
25-01-4146/1236

Declaration

The LVD agreement declaration of Mitsubishi FX2N series not listed above is done based on self-declaration.

(With regard to EN61131-2)

The LVD agreement declaration of Mitsubishi FX2N series is done self-declaration based on the examination agreement by the following Test Laboratory.

Test Laboratory : A-pex International Co., Ltd.
Test Report No. : 21FS0175

of conformity

Modification History

Subject Document: FX2N Declaration Of Conformity
 Reference number: JY992D67201

This is an additional sheet to identify any change to the associated Declaration Of Conformity. This sheet does not form any direct part of the declaration and is not for issue with the declaration. This sheet is for Mitsubishi Electrics internal control and management of the declaration.

Date of new issue	New revision letter	Changes
July 1997	A	First Issue
January 1999	B	Addition of several production till January 1999 from December 1997. Addition of FX2N-***-BD,FX2N-CNV-IF, FX2N-1PG-E, FX2N-1HC, FX2N-232IF, FX2N-4AD,FX2N-4DA,FX2N-4AD-TC, FX2N-4AD-PT, FX2N-1RM-E-SET, FX2N-**MR/ER-UA1/UL, FX2N-LON-ADP-RY,FX2N-2AD,FX2N-2DA, FX2N-32CCL/CE,FX2N-32ASI-M. (These addition is both of EMC and LVD.)
July 2000	C	Addition of several production till June2000 from February 1999. Addition of FX2N-16LNK-M,FX2N-32DP-IF, FX2N-32CCL,FX2N-10GM,FX2N-20PSU, FX2N-20GM,FX2N-2LC,FX2N-64DNET, FX2N-8AD and FX2N-20GM-6L. (These addition is both of EMC and LVD.)
April 2002	D	Addition of LVD self-declaration. Addition of EN61131-2 Delection of types in the LVD list beyond the scope of LVD directive Delection of FX2N-LON-ADP-RY Addition of FX2N-64DP-M,FX2N-16CCL-M, FX2N-ROM-E, FX2N-10PG and FX2N-32CAN for EMC
June 2004	E	The reference number of EMC certificate is changed into certificate No. from test report No. Addition of FX2N-64CL-M and FX2N-5A. Change of Manufacturers Agent name