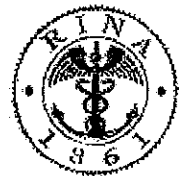




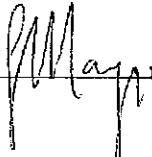
TYPE APPROVAL CERTIFICATE
No. ELE121405CS1



This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Programmable logic controllers
<i>Type</i>	MELSEC FX1S Series; MELSEC FX1N Series
<i>Applicant</i>	MITSUBISHI ELECTRIC EUROPE B.V. Gothaer Strasse 8, P.O. 1548 , 40880 Ratingen GERMANY
<i>Manufacturer</i>	MITSUBISHI ELECTRIC EUROPE B.V.
<i>Place of manufacture</i>	Gothaer Strasse 8, P.O. 1548 , 40880 Ratingen GERMANY
<i>Reference standards</i>	- Rules for the Classification of Ships- Part C - Machinery, Systems and fire protection - Ch.3 ; Sect. 6 ; Tab. 1 .

Issued in Genoa on April 12, 2005. This Certificate is valid until April 12, 2010



RINA
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This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. ELE121405CS1

Enclosure - Page 1 of 1

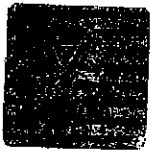
MELSEC FX1S Series;

MELSEC FX1N Series

Base Units MELSEC FX1S		Base Units MELSEC FX1N	
FX1S-10MR-DS	DC Unit, 6 In. 24Vdc, 4 relay Out.	FX1N-14MR-DS	DC Unit, 8 In. 24Vdc, 6 Relay Out.
FX1S-10MR-ES/UL	AC Unit, 6 In. 24Vdc, 4 relay Out.	FX1N-14MR-ES/UL	AC Unit, 8 In. 24Vdc, 6 Relay Out.
FX1S-10MT-DSS	DC Unit, 6 In. 24Vdc, 4 Tr. Out.	FX1N-14MT-DSS	DC Unit, 8 In. 24Vdc, 6 Tr. Out.
FX1S-10MT-ESS/UL	AC Unit, 6 In 24Vdc, 4 Tr. Out.	FX1N-14MT-ESS/UL	AC Unit, 8 In. 24Vdc, 6 Tr. Out.
FX1S-14MR-DS	DC Unit, 8 In 24Vdc, 6 Relay Out.	FX1N-24MR-DS	DC Unit, 14 In. 24Vdc, 10 Relay Out.
FX1S-14MR-ES/UL	AC Unit, 8 In. 24Vdc, 6 Relay Out.	FX1N-24MR-ES/UL	AC Unit, 14 In. 24Vdc, 10 Relay Out.
FX1S-14MT-DSS	DC Unit, 8 In. 24Vdc, 6 Tr. Out.	FX1N-24MT-DSS	DC Unit, 14 In. 24Vdc, 10 Tr. Out.
FX1S-14MT-ESS/UL	AC Unit, 8 In. 24Vdc, 6 Tr.Out.	FX1N-24MT-ESS/UL	AC Unit, 14 In. 24Vdc, 10 Tr. Out.
FX1S-20MR-DS	DC Unit, 12 In. 24Vdc, 8 Relay Out.	FX1N-40MR-DS	DC Unit, 24 In. 24Vdc, 16 Relay Out.
FX1S-20MR-ES/UL	AC Unit, 12 In. 24Vdc, 8 Relay Out.	FX1N-40MR-ES/UL	AC Unit, 24 In. 24Vdc, 16 Relay Out.
FX1S-20MT-DSS	DC Unit, 12 In. 24Vdc, 8 Tr. Out.	FX1N-40MT-DSS	DC Unit, 24 In. 24Vdc, 16 Tr. Out.
FX1S-20MT-ESS/UL	AC Unit, 12 In 24Vdc, 8 Tr. Out.	FX1N-40MT-ESS/UL	AC Unit, 24 In. 24Vdc, 16 Tr. Out.
FX1S-30MR-DS	DC Unit, 16 In 24Vdc, 14 Relay Out.	FX1N-60MR-DS	DC Unit, 36 In. 24Vdc, 24 Relay Out.
FX1S-30MR-ES/UL	AC Unit, 16 In 24Vdc, 14 Relay Out.	FX1N-60MR-ES/UL	AC Unit, 36 In. 24Vdc, 24 Relay Out.
FX1S-30MT-DSS	DC Unit, 16 In. DC 24V, 14 Tr. Out.	FX1N-60MT-DSS	DC Unit, 36 In. 24Vdc, 24 Tr. Out.
FX1S-30MT-ESS/UL	AC Unit, 16 In. 24Vdc, 14 TR. Out.	FX1N-60MT-ESS/UL	AC Unit, 36 In. 24Vdc, 24 Tr. Out.

Extension adapter boards (expansion boards) FX1S and FX1N Series	
FX1N-8-AV-BD	Analog setpoint adapter
FX1N-4EX-BD	Interface adapter, 4 point special input
FX1N-2EYT-BD	Interface adapter, 2 point special outputs
FX1N-2AD-BD	Interface adapter, 2 ch. special analog to digital converter
FX1N-1DA-BD	Interface adapter, 1 ch. special digital to analog converter
FX1N-232-BD	RS232C communication interface
FX1N-422-BD	RS422 communication interface
FX1N-485-BD	RS485 communication interface
FX1N-5DM	Display module

Connectable special modules / extension units FX1N Series only	
FX2N-32ER-ES/UL	Compact extension AC Unit, 16 Input 24Vdc, 16 Relay Output
FX2N-32ET-ESS/UL	Compact extension AC Unit, 16 Input 24Vdc, 16 Transistor Output
FX2N-48ER-DS	Compact extension DC Unit, 24 Input 24Vdc, 24 Relay Output
FX2N-48ER-ES/UL	Compact extension AC Unit, 24 Input 24Vdc, 24 Relay Output
FX2N-48ET-DSS	Compact extension DC Unit, 24 Input 24Vdc, 24 Transistor Output
FX2N-48ET-ESS/UL	Compact extension AC Unit, 24 input 24Vdc, 24 Transistor Output
FX2N-4DA	Analog Out. module, 12 bit, 4 analog outputs for Current or Voltage
FX2N-4AD	Analog input module, 12 bit, 4 analog inputs for Current or Voltage
FX2N-4AD-TC	Analog input module for thermo-elements, 4 Thermo-Couple inputs
FX2N-4AD-PT	Analog input for Pt 100 elements, 4 Pt100 inputs
FX2N-16EX-ES/UL	Modular extension unit, 16 Inputs 24Vdc
FX2N-16EYR-ES/UL	Modular extension unit, 16 Relay outputs
FX2N-16EYT-ESS/UL	Modular extension unit, 16 Transistor outputs



Additional modules for MELSEC FX1N or FX2N Series	
FX2N-5A	Analog module, 4 analog inputs 16 bits, 1 analog output 12 bits for current , voltage
FX2N-8AD	Analog Input module for Pt100 elements, 8 Pt 100 inputs

Mitsubishi reference documents:

Programmable controllers - MELSEC-F- HARDWARE MANUAL ; FX1N SERIES
PROGRAMMABLE CONTROLLERS

Programmable controllers - MELSEC-F- HARDWARE MANUAL ; FX1S SERIES
PROGRAMMABLE CONTROLLERS

Programmable controllers - MELSEC-F -USER'S MANUAL n° JY992D84201B
(RS-485 Communication board FX1N-485-BD)

Programmable controllers - MELSEC-F -USER'S MANUAL n° JY992D84401B
(RS-232C Communication board FX1N-232-BD)

Programmable controllers - MELSEC-F- Data Sheet n° JY992D84101A
(RS-422 Communication board FX1N-422-BD)

User's Manual n° JY997D11401 (FX2N-5A)

User's Manual n° JY992D86001 (FX2N-8AD)

Test Reports:

Mitsubishi Electric Europe Reports: n° 240430, 240430a, 240430b, 240430c, 240430d, 240430e,
240430f, BZ-5486,

Tokin Reports: n° S1R008192, S2B00Z281, S1A003172,

Yocowa Lab. Report n° :19G0062-02

Senton Report: n° 51316-30682-B.

Genoa April 12, 2005