

TYPE APPROVAL CERTIFICATE
No. ELE121405CS2



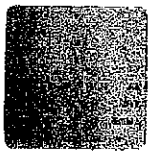
This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Programmable logic controller
<i>Type</i>	MELSEC FX2N 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

Gianluigi Maggi

This certificate consists of this page and 1 enclosure



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MELSEC FX2N Series

Base Units MELSEC FX2N	
FX2N-16MR-ES/UL	8 input 24Vdc, 8 relay output
FX2N-16MT-ESS/UL	8 input 24Vdc, 8 transistor output
FX2N-32MR-ES/UL	16 input 24Vdc, 16 relay output
FX2N-32MT-ESS/UL	16 input 24Vdc, 16 transistor output
FX2N-48MR-ES/UL	24 input 24Vdc, 24 relay output
FX2N-48MT-ESS/UL	24 input 24Vdc, 24 transistor output
FX2N-64MR-ES/UL	32 input 24Vdc, 32 relay output
FX2N-64MT-ESS/UL	32 input 24Vdc, 32 transistor output
FX2N-80MR-ES/UL	40 input 24Vdc, 40 relay output
FX2N-80MT-ESS/UL	40 input 24Vdc, 40 transistor output
FX2N-128MR-ES/UL	64 input 24Vdc, 64 relay output
FX2N-128MT-ESS/UL	128 input 24Vdc, 64 transistor output

Compact Extension Units FX2N	
FX2N-32ER-ES/UL	16 input 24Vdc, 16 relay output
FX2N-32ET-ESS/UL	16 input 24Vdc, 16 transistor output
FX2N-48ER-ES/UL	24 input 24Vdc, 24 relay output
FX2N-48ET-ESS/UL	24 input 24Vdc, 24 transistor output

Modular Extension Units FX2N	
FX2N-16EX-ES/UL	16 input 24Vdc
FX2N-16EYR-ES/UL	16 relay output
FX2N-16EYT-ESS/UL	16 transistor output 5/30Vdc

Special Function Units FX2N	
FX2N-5A	4 analog inputs, 16bits, 1 analog output 12 bits (mV, mA) (*)
FX2N-8AD	8 analog inputs for Pt 100 thermoresistance (*)
FX2N-4AD	4 analog inputs (V, mA)
FX2N-4AD-TC	4 analog inputs for T/C (K or J)
FX2N-4AD-PT	4 analog inputs for PT100
FX2N-4DA,	4 analog output (V, mA)
FX2N-1HC	High speed counter (50 kHz)
FX2N-1PG-E	Single axes position module
FX2-232IF	Serial communication interface RS-232C

(*) These modules may also be used with FX1N PLC



Mitsubishi reference Documentation:

Programmable Controller MELSEC-F- FX2N

doc. n° JY992D66301A (MEE9707)

Programmable Logic Controllers-Technical Catalogue

doc. n° 68554-A (04/98)

Programmable Controllers Melsec-F- Programming Manual

doc. n° JY992D48301G (MEE9803)

Programmable Controllers - Software Manual

doc. n° JY992D66501A (MEE 09.1997)

Programmable Controllers Melsec--F - User's Manual

doc. n° JY992D86001, doc n° JY997D11401

Test Reports:

Token Reports: n° TAD97X261, TAD979162

Mitsubishi Electric Corporation Reports: n° BZ-5391, BZ5395

Genoa April 12, 2005