



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 13 827 - 99 HH

Company Mitsubishi Electric Corporation
Himeji Works
840 Chiyoda-Machi
Himeji, Hyogo, 670 Japan

Product Description Programmable Logic Controller

Type MELSEC FX2N - Series

Environmental Category C, EMC1

Technical Data / Range of Application Power supply : 100 - 240VAC or 24VDC
Base Units : FX2N-16MR to 128MR and FX2N-16MT to 128MT
with 16, 32, 48, 64, 80 and 128 parity inputs and outputs

Extension Units : FX2N-32ER and 48ER, FX2N-32ET and ET48, FX2N-16
marked with X = input only, Y = output only

Analogue, Pulse and Interface Units:
FX2N-4AD, -4AD-PT, -4AD-TC, -4DA, -1HC, -1PG-E, -232IF
FX2N-5A, FX2N-8AD

Code for all: M = Base Unit E = Extension Unit
R = Relay T = Transistor
ES/DS or ESS/DSS types are provided for external source
for outputs

* Documentation relating to the particular application software to be
submitted for separate approval

Test Standard Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003

Documents Test Report: Witness Test Report BZ-5391 of 03.24.1998 and BZ-5395 of 06.18.1998,
Test Reports TAD979162 of 9.19.97, TAD97X261 of 11.13.97, MEE 240318 of 06.09.04
Catalogue 8544-A/ 04.98, Hardware Manual JY992D66301C MEE 03.1998
Software Manual JY992D66501A MEE 09.1997

Remarks The application program to be installed in EEPROM for program start in case of
battery failure

Valid until 2009-11-27

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File No. I.B.07

Hamburg, 2004-12-01

Germanischer Lloyd

J. Wittburg

D. Lesniewski

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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Certificate No. **24 205 - 04 HH**

Company **Mitsubishi Electric Corporation
Himeji Works
840 Chiyoda-Machi
Himeji, Hyogo, 670 Japan**

Product Description **Programmable Logic Controller**

Type **FX1S / FX1N Series**

Environmental Category **C, EMC1, EMC2**

Technical Data /
Range of Application **Power supply: 100 -240V AC* or 24V DC
Base units FX1S:
-10MR-DS; -10MR-ES; -10MT-DSS; -10MT-ESS/UL
-14MR-DS; -14MR-ES; -14MT-DSS; -14MT-ESS/UL
-20MR-DS; -20MR-ES; -20MT-DSS; -20MT-ESS/UL
-30MR-DS; -30MR-ES; -30MT-DSS; -30MT-ESS/UL
Base units FX1N:
-14MR-DS; -14MR-ES/UL; -14MT-DSS; -14MT-ESS/UL
-24MR-DS; -24MR-ES/UL; -24MT-DSS; -24MT-ESS/UL
-40MR-DS; -40MR-ES/UL; -40MT-DSS; -40MT-ESS/UL
-60MR-DS; -60MR-ES/UL; -60MT-DSS; -60MT-ESS/UL
MR: relay output MT: transistor output
DS: DS(S): DC power supply ES(S)/UL*: AC power supply
*Env. Category 'EMC2' for types ES(S)/UL without RFI filter
*Env. Category 'EMC1' for types ES(S)/UL with RFI filter RASMI FFR-S520S-14A-RF1
see page 2 for continuation**

Test Standard **Guidelines for the Performance of Type Tests Part 1, Edition 2003**

Documents **Test Reports: LR No. BZ-5486; Tokin No. S2B00Z281, Tokin No. S1A003172,
Tokin No. S1R008192, SENTON No. 51316-30682-B, ME No. 240430 (a...f)
Evaluation/Test on Reliability of Products;
Technical Drawings; Data Sheets; Software Documentantation**

Remarks **Respective application software is subject to supplementary approval**

Valid until **2009-11-30**

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Extension units (expansion boards) for FX1S/FX1N:

FX1N-8AV-BD	Analogue Potentiometer
FX1N-4EX-BD	Digital Input Board, 4 channels
FX1N-2EYT-BD	Digital Output Board, 2 channels
FX1N-2AD-BD	Analogue Input Board, 2 channels
FX1N-1DA-BD	Analogue Output Board, 1 channel
FX1N-232-BD	RS-232C Communication Board
FX1N-422-BD	RS-422 Communication Board
FX1N-485-BD	RS-485 Communication Board
FX1N-5DM	Display Module

For other connectable extension units see Certificate No. 13 827-99 HH

Software requirement class: 3

Software (Firmware) version: 2.10

Valid until **2009-11-30**

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File No. **1.B.07**

Hamburg, **2004-12-01**

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