



CERTIFICATE NUMBER 22-2193701-EUMR-DE

EFFECTIVE DATE 21-Feb-2022

EXPIRATION DATE 20-Feb-2027

ABS TECHNICAL OFFICE Hamburg Engineering Department

CERTIFICATE OF

European Union Recognized Organization (EU RO) Mutual Recognition Design Evaluation (in accordance with Article 10.1 of EU Regulation 391/2009)

This is to certify to the Manufacturer named below, that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognized Organization Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

SCHNEIDER ELECTRIC AUTOMATION GMBH

who maintains a plant at

SCHNEIDERPLATZ 1, MARKTHEIDENFELD, Germany, 97828

Product Programmable Logic Controller

Model Modicon M262

This certificate, by itself does not reflect that the product is Type Approved. The scope and limitations of this evaluation are detailed on the pages attached to this certificate.

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV GL;

NOTE: This certificate evidences compliance with one or more of the ABS Rules and the EU Regulations 391/2009. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product or manufacturing process without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules and Conditions of the request for EU Product Type Approval and Agreement.



- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).

This EU RO Mutual Recognition Design Evaluation Certificate remains valid until 20/Feb/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

American Bureau of Shipping

Efstratios Maliatsos, Engineer/Consultant

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Product: Programmable Logic Controller

Model: Modicon M262

Intended Service: Monitoring and control systems on AMS, ACC, ACCU, ABCU Classed Vessels and Offshore Units.

Description:

Following modules are covered by the certificate:

- TM262L10MESE8T: Logic controller with Ethernet IP network, 64 devices, 40 ms, direct and DIN rail mounting;

- TM262L20MESE8T: Logic controller with Ethernet IP network, 64 devices, 20 ms, direct and DIN rail mounting;

(Hardware version PV: 02 RL:10, Firmware: V5.1.5.33)

- TM262M05MESS8T: Motion controller with Sercos 3 network, 4 axis (1 ms) and Ethernet IP network, 64 devices, 40 ms, encoder interface, direct and DIN rail mounting;

- TM262M15MESS8T: Motion controller with Sercos 3 network, 4 axis (1 ms) and Ethernet IP network, 64 devices, 40 ms, encoder interface, direct and DIN rail mounting;

- TM262M25MESS8T: Motion controller with Sercos 3 network, 8 axis (2 ms) and Ethernet IP network, 64 devices, 20 ms, encoder interface, direct and DIN rail mounting;

- TM262M35MESS8T: Motion controller with Sercos 3 network, 16 axis (2 ms) and Ethernet IP network, 64 devices, 20 ms, encoder interface, direct and DIN rail mounting;

(Hardware version PV: 02 RL:09, Firmware: V5.1.5.33)

- TMSCO1: Leftside expansion module with CanOpen master, direct and DIN rail mounting;

- TMSES4: Leftside expansion module with 4 Ethernet IP interfaces, direct and DIN rail mounting;

(Hardware version: PV: 01 RL:02)

- TM3XFHSC202/ TM3XFHSC202G: TM3 IO expansion high speed counter module with event management, direct and DIN rail mounting, screw/spring contacts;

- TM3XHSC202/ TM3XHSC202G: TM3 IO expansion high speed counter module, direct and DIN rail mounting, screw/spring contacts;

(Hardware version PV: 01 RL: 02);

Ratings:

Power Supply: 24V DC;

Ambient operating temperature:+5°C to +60 °C;

Degree of protection: IP20;

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Restrictions:

1. This approval covers hardware only. This excludes firmware, application software, and hardware designed for specific applications subject to classification. Firmware, system software, and application software are subject to additional separate approval, according to UR E22 and the rules of the classing EU RO (FAT and on-board review / tests);
2. The term PLC is here meant to comprise of elements such as backplanes, power supplies, CPUs, I/O units and bus communication units when these are considered an integral part, or natural extension, of the PLC. Sensors and actuators typically connected to the PLC in a system are not considered part of the PLC and are excluded from the scope of this program;
3. Use of this product in radio- or navigational applications where testing according to IEC Publication 60945 is required is excluded from the scope of this program. E.g. use in systems covered by the Marine Equipment Directive.
4. The product is not tested for installation in weather exposed areas or navigation bridge. Salt mist (test no. 12), Compass safe distance measurement (test no. 22) and Acoustic noise and signals measurement (test no. 23) tests per EU RO MR TR for Computers and Programmable Logic Controllers (PLCS) Table 2 have not been conducted.
5. An external enclosure of suitable ingress protection rating is to be provided and is to be to the satisfaction of the Class Society that will classify the ship, as per EU RO MR TR for Computers and Programmable Logic Controllers (PLCS) 2.a i.d.
6. Application of the control, monitoring, alarm, and safety systems are subject for approval of the individual EU RO classing the vessel.
7. The equipment is approved for horizontal mounting and installation in the general power distribution zone only.

Supporting Documentation:

Drawing No. Modicon M262_TM262L10MESE8T, Technical Datasheet, 12/2021
Drawing No. Modicon M262_TM262L20MESE8T, Technical Datasheet, 12/2021
Drawing No. Modicon M262_TM262M05MESS8T, Technical Datasheet, 12/2021
Drawing No. Modicon M262_TM262M15MESS8T, Technical Datasheet, 12/2021
Drawing No. Modicon M262_TM262M25MESS8T, Technical Datasheet, 12/2021
Drawing No. Modicon M262_TM262M35MESS8T, Technical Datasheet, 12/2021
Drawing No. EIO0000003137, Modicon TM3, Technical Datasheet, 03/2020
Drawing No. EIO0000003699, Modicon TMS, Technical Datasheet, 03/2020
Drawing No. E191181E1, EMC Test Report, Phoenix Testlab, 08.11.2021
Drawing No. U191181E1_2 nd Version, Environmental Test Report, Phoenix Testlab, 11.12.2019
Drawing No. S191181E1, Needle Flame Test Report, Phoenix Testlab, 02.02.2022
Drawing No. Catalog Modicon M262 - IIoT-ready logic & motion controller for performances machines - May 2021

Rules & Standards:

Technical Requirement: EU Mutual Recognition Technical Requirements for Computers and Programmable Logic Controllers (PLCS) Version 0.6, 1July 2020.

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