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Certificate No: LR25121160TA Issue Date: 29/08/2025 Expiry Date: 26/04/2030

Type Approval Certificate

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

Manufacturer Schneider Electric Automation GmbH

Address Schneiderplatz 1, Marktheidenfeld, 97828, Germany

Place of Production PT. Schneider Electric Manufacturing Batam

Batamindo Industrial Park Jl. Beringin, Lot 208Muka Kuning, Batam Island,

29433, Indonesia

Place of Production Wuxi Pro-face Co.,Ltd.

No.20, Hanjiang Road, Wuxi New District, Wuxi, Jiangsu, 214028, China

Type Control Units

Description Programmable Logic Controller with associated accessories

Trade Name Modicon TM241 / TM251

Application Marine, Offshore and Industrial applications for the use in environmental

category ENV1 and ENV2 as defined in the Lloyd's Register Type Approval

System, Test Specification Number 1 (2015).

Specified Standard Manufacturer's Specification.

IACS unified requirements E10 (Rev.9 Aug 2023)

Ratings Modicon TM241 / TM251

TM241CEC24U (24 I/O; Ethernet; CANopen)

Thorsten Wolff

Electrical & Control - Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

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TM241C24U (24 I/O; CANopen)

TM241CE24U (24 I/O; Ethernet)

TM241CEC24T *1 (24 I/O; Ethernet; CANopen)

TM241CE24T *1 (24 I/O; Ethernet)

TM241CE40U *1 (40 I/O; Ethernet)

TM241C40T *1 (40 I/O; CANopen)

TM241CE40T *1 (40 I/O; Ethernet)

TM241C24T *1 (24 I/O; CANopen)

TM241C40U *1 (40 I/O; CANopen)

TM241C24R/40R *2 (24/40 I/O; Serial links)

TM241CE24R/40R *2 (24/40 I/O; Serial links; Ethernet)

TM241CEC24R *2 (24 I/O; Serial links; Ethernet; CANopen)

TM251MESC *2 (Serial link; Ethernet; CANopen)

TM251MESE *1 (Serial link; Ethernet; "Fieldbus" Ethernet)

Configuration Software: SoMachine V4.3 Firmware of Controller: M241 - V4.0.6.xx

M251 - V4.0.6.yy

Accessories

TM3XREC1 *2 (Receiver; Ethernet; 24V DC external)

TM3XTRA1 (Transmitter; Ethernet; 5V DC internal)

TM4ES4 *2 (Expansion; Ethernet switch 4)

TM4PDPS1 (Profibus; SubD9; RS485 Modbus)

TMC4AI2 *1 (2xAI; 0...10V; 0/4...20mA)

TMC4AQ2 *1 (2xAO; 0...10V; 4...20mA)

TMC4HOIS01 *1 (Cartridge; 2xAI for control of load cell)

TMC4PACK01 *1 (Cartridge; 2xAI for temperature control)

TMC4TI2 *2 (2x Thermocouple or RTD input)

Additional Tests Shock Test: A0 = 15g and 30g with T = 11ms

Ingress Protection Rating: IP20

Other Conditions For compliance with radiated emissions for the installation in bridge and deck

zones the products have to be installed inside a metallic cabinet (e.g. NSYS3D)

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and fixed on a metallic grid.

24V DC equipment is not suitable for direct battery supply.

Application marked with *1 are allowed to be installed in "bridge and deck zones" in combination with a Single- Stage Filter, Ratings: L= 22,5mH; Cx=220nF; Cy=4,7nF; R= $1000k\Omega$. (Refer to Instruction Sheet "NHA5337200_00")

Application marked with *2 are not allowed to be installed in "bridge and deck zones".

Final arrangements of the system have to be in compliance with Lloyd's Register Rules and Regulations.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2022547TA

The Design Appraisal Document TSO-25-037047/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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