



Lloyd's
Register

Type Approval Certificate

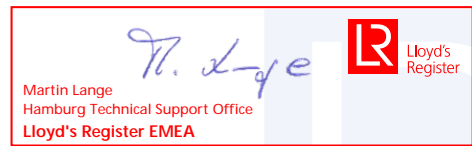
This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 15/20042 issued on 27.04.2015 which is hereby cancelled.

This certificate is issued to:

PRODUCER	Schneider Electric Automation GmbH Schneiderplatz 1 97828 Marktheidenfeld Germany
DESCRIPTION	Programmable Logic Controller with associated accessories
TYPE	Modicon TM241 / TM251
	<ul style="list-style-type: none"> · TM241CEC24U (24 I/O; Ethernet; CANopen) · 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)

Certificate No.	15/20042(E1)
Issue Date	19 June 2018
Expiry Date	26 April 2020
Sheet	1 of 3



Martin Lange
Hamburg Technical Support Office
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TYPE (continued)

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)

Configuration Software: SoMachine V4.3

Firmware of Controller: M241 - V4.0.3.xx
M251 - V4.0.5.yy

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 (2013 and 2015).

ADDITIONAL TESTS

Shock Test: A₀= 15g and 30g with T = 11ms
Ingress Protection Rating: IP20

STANDARD

Manufacturer's Specification.

LIMITATIONS

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) 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= 1000kΩ. (Refer to Instruction Sheet "NHA5337200_00")

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

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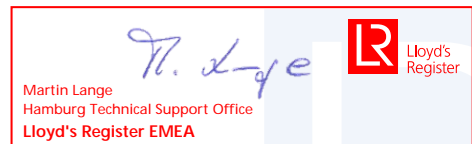
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OTHER CONDITIONS	Final arrangements of the system have to be in compliance with Lloyd's Register Rules and Regulations.
PLACE OF PRODUCTION	PT Schneider Electric Mfg. Batam Batam Industrial Park Jl. Beringin Block 01,04 & 208, Muka Kuning Batam Island, 29433 Indonesia

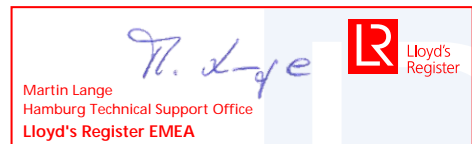
The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 31740-15, issue no. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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