



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 13/20011 issued on 19.02.2013 which is hereby cancelled.

This certificate is issued to:

PRODUCER Schneider Electric Automation GmbH
Schneiderplatz 1
97828 Marktheidenfeld
Germany

DESCRIPTION Programmable Electronic System with extensions and accessories for control, alarm and indication.

TYPE Modicon M258 Programmable Logic Controllers

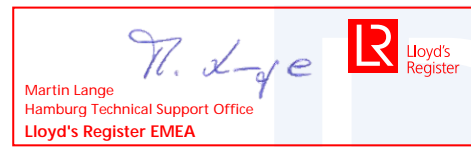
Module	Description
LMC058LF42	LMC058 Eth / 2CAN / Motion / 42DIO
LMC058LF424	LMC058 Eth / 2CAN / Motion / 2PCI / 42DIO / 4AI
LMC058LF424S0	LMC058 Eth / 2CAN / Motion / 2PCI / 42DIO / 4AI / S
LMC058LF42S0	LMC058 Eth / 2CAN / Motion / 2PCI / 42DIO / S
TM258LD42DT	M258 Controller Eth / SL / 42DIO
TM258LD42DT4L	M258 Controller Eth / SL / 2PCI / 42DIO / 4AI
TM258LF42DR	M258 Controller Eth / CAN / SL / 42DIO Relay
TM258LF42DRS0	M258 Controller Eth / CAN / SL / 42DIO Relay / S
TM258LF42DT	M258 Controller Eth / CAN / SL / 42DIO
TM258LF42DT4L	M258 Controller Eth / CAN / SL / 2PCI / 42DIO / 4AI
TM258LF42DT4LS0	M258 Controller Eth / CAN / SL / 2PCI / 42DIO / 4AI / S
TM258LF42DTS0	M258 Controller Eth / CAN / SL / 42DIO / S
TM258LF66DT4L	M258 Controller Eth / CAN / SL / 2PCI / 66DIO / 4AI
TM258LF66DT4LS0	M258 Controller Eth / CAN / SL / 2PCI / 66DIO / 4AI / S

Certificate No. 13/20011(E1)

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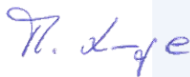
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TYPE (continued)

Module	Description
TM5ACADL100	100 Locking Bus Base + Module
TM5ACBM01R	Bus Base / 24V DC left isolated grey
TM5ACBM01R10	10 Bus Base / 24V DC left isolated grey
TM5ACBM05R	Bus Base / @ / 24V DC left isolated grey
TM5ACBM05R10	10 Bus Base / @ / 24V DC left isolated grey
TM5ACBM11	Bus Base / 24V DC connected white
TM5ACBM1110	10 Bus Base / 24V DC connected white
TM5ACBM12	Bus Base / 240V AC cod / 24V DC connect. black
TM5ACBM1210	10 Bus Base / 240V AC cod / 24V DC connect. black
TM5ACBM15	Bus Base / 24V DC / @ / 24V DC connect. white
TM5ACBM1510	10 Bus Base / 24V DC / @ / 24V DC connect. white
TM5ACLPL10	10 Bus Base Locking Plates left
TM5ACLPR10	10 Bus Base Locking Plates right
TM5ACTB06	Terminal Block / 6 pin / 24V DC white
TM5ACTB0610	10 Terminal Blocks / 6 pin / 24V DC white
TM5ACTB12	Terminal Block / 12 pin / 24V DC white
TM5ACTB1210	10 Terminal Blocks / 12 pin / 24V DC white
TM5ACTB12PS	Terminal Block / 12 pin / 24V DC grey
TM5ACTB32	Terminal Block / 12 pin / 240V AC cod. black
TM5ACTB3210	10 Terminal Blocks / 12 pin / 240V AC cod. black
TM5C12D6T6L	Compact 24V DC / 12DI / 6DO Tr / 4AI / 2AO
TM5C12D8T	Compact 24V DC / 12DI / 8DO Tr / 3 wires
TM5C24D12R	Compact 24V DC / 24DI / 12DO Relay
TM5C24D18T	Compact 24V DC / 24DI / 18DO Tr
TM5NCO1	CANopen Fieldbus Interface Module
TM5PCRS2	PCI Com Module SL RS232
TM5PCRS4	PCI Com Module SL RS485
TM5SAI2H	Mod. 2AI $\pm 10V$ / 0-20mA / 16bits
TM5SAI2L	Mod. 2AI $\pm 10V$ / 0-20mA / 4-20mA / 12bits
TM5SAI2PH	Mod. 2AI PT100/1000 / 16bits
TM5SAI2TH	Mod. 2AI Thermocouple J/K/S/N / 16bits

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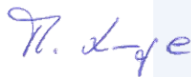
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TYPE (continued)

TM5SAI4H	Mod. 4AI ±10V / 0-20mA / 4-20mA / 16bits
TM5SAI4L	Mod. 4AI ±10V / 0-20mA / 4-20mA / 12bits
TM5SAI4PH	Mod. 4AI PT100/1000 / 16bits
TM5SAI6TH	Mod. 6AI Thermocouple J/K/N/S / 16bits
TM5SAO2H	Mod. 2AO ±10V / 0-20mA / 16bits
TM5SAO2L	Mod. 2AO ±10V / 0-20mA / 12bits
TM5SAO4H	Mod. 4AO ±10V / 0-20mA / 16bits
TM5SAO4L	Mod. 2AO ±10V / 0-20mA / 12bits
TM5SBER2	Mod. Bus Receiver / TM5 Bus PWR / PWR distr.
TM5SBET1	Mod. Bus Transmitter / IP20
TM5SBET7	Mod. Bus Transmitter / IP67 / PW supply 6W
TM5SDI12D	Mod. 12DI / 24V DC / Sink 1 wire
TM5SDI2A	Mod. 2DI / 100-240V AC / 2 wires black
TM5SDI2D	Mod. 2DI / 24V DC / Sink 3 wire
TM5SDI2DF	Mod. 2DI Fast / 24V DC / Sink 3 wires
TM5SDI4A	Mod. 4DI / 100-240V AC / 2 wires black
TM5SDI4D	Mod. 4DI / 24V DC / Sink 3 wires
TM5SDI6D	Mod. 6DI / 24V DC / Sink 2 wires
TM5SDI6U	Mod. 6DI / 100-120V AC / 1 wire black
TM5SDM12DT	Mod. 8DI/4DO / 24V DC / Tr 1 wire
TM5SDO12T	Mod. 12DO / 24V DC / Tr 0.5A 1 wire
TM5SDO2R	Mod. 2DO / 30V DC / 230V AC / 5A / Relay C/O
TM5SDO2S	Mod. 2DO 100-240V AC / 1A / coded 3 wires
TM5SDO2T	Mod. 2DO / 24V DC / Tr 0.5A / 3 wires
TM5SDO4R	Mod. 4DO / 30V DC - 230V AC / 5A /Relay O
TM5SDO4T	Mod. 4DO / 24V DC / Tr 0.5A / 3 wires
TM5SDO4TA	Mod. 4DO / 24V DC / Tr 2A / 3 wires
TM5SDO6T	Mod. 6DO / 24V DC / Tr 0.5A / 2 wires
TM5SDO8TA	Mod. 8DO / 24V DC / Tr 2A / 1 wire Ext Power
TM5SE1IC01024	Mod. 1HSC INC / 100kHz / 24V DC
TM5SE1IC02505	Mod. 1HSC INC / 250kHz / 5V DC
TM5SE1SC10005	Mod. 1HSC SSI / 1Mb / 5V DC

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TYPE (continued)

TM5SE2IC01024	Mod. 2HSC INC / 100kHz / 24V DC
TM5SPDD12F	Mod. 12COM / 24V DC / F=6.3A Int. Distr.
TM5SPDG12F	Mod. 12COM / 0V DC / F=6.3A Int. Distr.
TM5SPDG5D4F	Mod. 2x5COM / 0/24V DC / F=6.3A Ext. PWR
TM5SPDG6D6F	Mod. 2x6COM / 0/24V DC / F=6.3A Int./Ext. PWR
TM5SPS1	Mod. PWR Distr. 24V DC / grey
TM5SPS1F	Mod. PWR Distr. 24V DC / F=6.3A / grey
TM5SPS2	Mod. PWR Distr. / 24V DC / Bus PS / grey
TM5SPS2F	Mod. PWR Distr. / 24V DC / F=6.3A / Bus PS / grey
TM5SPS3	Field Bus Interface / 24V DC Power Supply

Configuration Software: SoMachine V4.3
Firmware of Controller: M258 - V4.0.3.x

APPLICATION Marine and offshore applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

ADDITIONAL TESTS Low Temperature Test: 5°C/16hrs.

STANDARD IEC 61131-2:2007

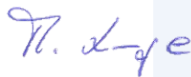
OTHER CONDITIONS The equipment exceeds the maximum radiated emission level for bridge and deck zones. Therefore the components have to be installed in accordance to the test reports in a "Special S3HF" cabinet which satisfied the required limits.
Final functional arrangements are to comply with appropriate Lloyd's Register Rules and will be subject of the Plan Approval process, if applicable.

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PLACE OF PRODUCTION Bernecker + Rainer Strasse 1
A-5124 Eggelsberg
Austria

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 37025-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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