

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 **Weidmueller Interface GmbH & Co. KG**

Address Klingenbergstr. 26, Detmold, 32758, Germany

Type Control Systems

Description U-Remote I/O System / U-Control

Refer to the Appendix for further details.

Trade Name UR20-Series / UC20-Series

Application Marine, offshore and industrial application for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1, 2021.

Specified Standard IACS unified requirements E10 (Rev.9 Aug 2023)
IEC 61010-1:2010-06 + COR. 1:2011-05 + COR. 2:2013-10 + AMD 1:2016-12 + AMD 1:2016/COR 1:2019-03
IEC 61010-2-201:2017-03

Ratings Power supply voltage: 24VDC

Additional Tests Low temperature (-25°C/16h)

Other Conditions Digital PWM output modules UR20-2PWM-PN are to be supplied by a marine

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approved power supply unit if fitted in the deck/bridge area to meet the limits of radiated emission.

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: This certificate supersedes certificate number LR23158820TA-01 issued on 05.12.2024 which is hereby cancelled.

The Design Appraisal Document TSO-25-047348/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

Digital Input Modules

UR20-4DI-P
UR20-4DI-P-3W
UR20-8DI-P-2W
UR20-8DI-P-3W
UR20-8DI-P-3W-HD
UR20-16DI-P
UR20-16DI-P-PLC-INT
UR20-2DI-P-TS
UR20-4DI-P-TS
UR20-4DI-P-TS-V2
UR20-4DI-N
UR20-8DI-N-3W
UR20-16DI-N
UR20-16DI-N-PLC-INT
UR20-4DI-2W-230V-AC
UR20-8DI-ISO-2W
UR20-8DI-PN-FSCC

Digital Output Modules

UR20-4DO-P
UR20-4DO-P-2A
UR20-4DO-PN-2A
UR20-8DO-P
UR20-8DO-P-2W-HD
UR20-16DO-P
UR20-16DO-P-PLC-INT
UR20-4DO-N
UR20-4DO-N-2A
UR20-8DO-N
UR20-16DO-N
UR20-16DO-N-PLC-INT
UR20-4DO-ISO-4A
UR20-4RO-SSR-255
UR20-4RO-CO-255

Digital Input and Output Modules

UR20-8DIO-P-3W-DIAG
UR20-4DI-4DO-PN-FSCC

Digital Pulse Width Modulation Modules

UR20-2PWM-PN-0.5A
UR20-2PWM-PN-2A

Analogue Input Modules

UR20-2AI-UI-16
UR20-2AI-UI-16-DIAG
UR20-4AI-UI-16
UR20-4AI-UI-16-DIAG
UR20-4AI-UI-DIF-16-DIAG
UR20-4AI-UI-DIF-32-DIAG
UR20-4AI-UI-ISO-16-DIAG
UR20-4AI-UI-16-HD
UR20-4AI-UI-16-DIAG-HD
UR20-4AI-UI-12
UR20-8AI-I-16-HD
UR20-8AI-I-16-DIAG-HD
UR20-8AI-I-PLC-INT
UR20-4AI-RTD-DIAG
UR20-4AI-RTD-HP-DIAG
UR20-4AI-TC-DIAG
UR20-4AI-R-HS-16-DIAG
UR20-4AI-I-HART-16-DIAG
UR20-8AI-RTD-DIAG-2W
UR20-4AI-I-HART-ISO-16

Analog Output Modules

UR20-2AO-UI-16
UR20-2AO-UI-16-DIAG
UR20-2AO-UI-ISO-16-DIAG
UR20-4AO-UI-16
UR20-4AO-UI-16-M
UR20-4AO-UI-16-DIAG
UR20-4AO-UI-16-M-DIAG

Digital counter modules

UR20-1CNT-100-1DO
UR20-2CNT-100
UR20-1CNT-500
UR20-2FCNT-100

Communication Modules

UR20-1SSI
UR20-1COM-232-485-422
UR20-1COM-232-485-422-V2
UR20-1COM-SAI-PRO
UR20-1COM-CANOPEN
UR20-1COM-CAN

Power measurement module

UR20-3EM-400V-AC-333MV
UR20-3EM-400V-AC-CT1A
UR20-3EM-400V-AC-CT5A

Safe I/O Modules

UR20-4DI-4DO-PN-FSOE-V2
UR20-8DI-PN-FSOE-V2
UR20-4DI-4DO-PN-FSPS-V2
UR20-8DI-PN-FSPS-V2

Coupler

UR20-FBC-EC
UR20-FBC-CAN
UR20-FBC-CC
UR20-FBC-CC-TSN
UR20-FBC-EIP
UR20-FBC-EIP-V2
UR20-FBC-IEC61162-450
UR20-FBC-MOD-TCP-V2
UR20-FBC-PB-DP-V2
UR20-FBC-PL
UR20-FBC-PN-IRT-V2

Accessories

UR20-PF-I
UR20-PF-O
UR20-ES
UR20-16AUX-I
UR20-16AUX-O
UR20-16AUX-FE
UR20-16AUX-GND-I
UR20-16AUX-GND-O

U-Control

UC20-WL2000-AC
UC20-SL2000-EC
UC20-SL2000-AC-EC
UC20-SL2000-OLAC-EC
UC20-SL2000-EC-CAN
UC20-SL2000-AC-EC-CAN
UC20-SL2000-OLAC-EC-CAN
UC20-SL2000-AC
UC20-WL2000-IOT