



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19009M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Applicant:	Weidmüller Interface GmbH & Co. KG
Manufacturer &	Weidmüller Interface GmbH & Co. KG
Place of Manufacturing:	Klingenbergstraße 16, D-32758 Detmold, Germany ml&s manufacturing, logistics & services GmbH & Co. KG Siemensallee 1, D-17489 Griefswald, Germany Zollner Electronic AG Untergschwandt 3, D-94371 Rattenberg, Germany
Product description:	U-Remote-Series (Module U-Remote System)
Model:	UR20-FBC-..., UR20-...
Approval No.:	19A002
Valid until:	9 January 2024

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 10 January 2019.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Specification & documents:

1. Particulars: Power supply: 24VDC

2. Components and reference drawings:

Module type	Order number	Model	Description	Hardware version
Fieldbus coupler	1334890000	UR-20-FBC-CAN	CANopen	01.03.xx
	1334940000	UR-20-FBC-PL	Ethernet POWERLINK	01.03.xx
	1334910000	UR-20-FBC-EC	EtherCAT	02.02.xx
	2476450000	UR-20-FBC-MOD-TCP-V2	Modbus TCP	01.03.xx
	1334920000	UR-20-FBC-EIP	EtherNet/IP	02.01.xx
	1334880000	UR-20-FBC-PN-IRT	PROFINET	01.05.xx
	1334870000	UR-20-FBC-PB-DP	PROFIBUS	01.13.xx
Digital I/O	1460140000	UR-20-2DI-P-TS	2 digital inputs, P-switching, time stamp function	01.01.xx
	1315350000	UR-20-4DI-N	4 digital inputs, N-switching	01.10.xx
	1315170000	UR-20-4DI-P	4 digital inputs, P-switching	01.10.xx
	1460150000	UR-20-4DI-P-TS	4 digital inputs, P-switching, time stamp function	01.01.xx
	1550070000	UR-20-4DI-2W-230V-AC	4 digital inputs, 230V	01.10.xx
	2009360000	UR-20-4DI-P-3W	4 digital inputs, P-switching	01.00.xx
	1315370000	UR-20-8DI-N-3W	8 digital inputs, N-switching	01.30.xx
	1315180000	UR-20-8DI-P-2W	8 digital inputs, P-switching	01.01.xx
	1394400000	UR-20-8DI-P-3W	8 digital inputs, P-switching	01.31.xx
	1315190000	UR-20-8DI-P-3W-HD	8 digital inputs, P-switching	01.00.xx
	1315210000	UR-20-16DI-P-PLC-INT	16 digital inputs, P-switching, PLC connector	01.02.xx
	1315400000	UR-20-16DI-N-PLC-INT	16 digital inputs, N-switching, PLC connector	01.11.xx
	1315200000	UR-20-16DI-P	16 digital inputs, P-switching	01.01.xx
	1315390000	UR-20-16DI-N	16 digital inputs, N-switching	01.01.xx
	1315410000	UR-20-4DO-N	4 digital outputs, N-switching	01.00.xx
	1315420000	UR-20-4DO-N-2A	4 digital outputs, N-switching	01.00.xx
	1315220000	UR-20-4DO-P	4 digital outputs, P-switching	01.20.xx
	1315230000	UR-20-4DO-P-2A	4 digital outputs, P-switching	01.11.xx
	1509830000	UR-20-8DO-P-2W-HD	8 digital outputs, P-switching	01.00.xx
	1394420000	UR-20-4DO-PN-2A	4 digital outputs, P or N-switching	01.02.xx
	1315430000	UR-20-8DO-N	8 digital outputs, N-switching	01.00.xx
	1315240000	UR-20-8DO-P	8 digital outputs, P-switching	01.01.xx
	1315250000	UR-20-16DO-P	16 digital outputs, P-switching	01.03.xx
	1315440000	UR-20-16DO-N	16 digital outputs, N-switching	01.10.xx
1315270000	UR-20-16DO-P-PLC-INT	16 digital outputs, P-switching, PLC connector	01.13.xx	
1315450000	UR-20-16DO-N-PLC-INT	16 digital outputs, N-switching, PLC connector	01.01.xx	
Analog I/O	1990070000	UR20- 2AI-SG-24-DIAG	2 analog inputs, 24 bit, diagnostic	01.02.xx
	1394390000	UR20- 4AI-UI-12	4 analog inputs, 12 bit	01.20.xx
	1315620000	UR20- 4AI-UI-16	4 analog inputs, 16 bit	01.20.xx
	1315690000	UR20- 4AI-UI-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.20.xx
	1993880000	UR20- 4AI-UI-DIF-16-DIAG	4 analog inputs, 16 bit, diagnostic	01.20.xx
	1315700000	UR20- 4AI-RTD-DIAG	4 temperature sensors, 16 bit, diagnostic	01.02.xx
	1315710000	UR20- 4AI-TC-DIAG	4 temperature sensors, 16 bit, diagnostic	01.02.xx
	2453880000	UR20-4AO-UI-16-M	4 analog outputs, 16bit	01.00.xx
	2453870000	UR20-4AO-UI-16-M-DIAG	4 analog inputs, 16 bit, diagnostic	01.00.xx
AUX modules	1334770000	UR20- 16AUX-I	Potential distribution, 16 connections, input path	01.02.xx
	1334780000	UR20- 16AUX-O	Potential distribution, 16 connections, output path	01.01.xx
	1334800000	UR20- 16AUX-GND-I	Potential distribution, 16 connections, input path	01.02.xx
	1334810000	UR20- 16AUX-GND-O	Potential distribution, 16 connections, output path	01.02.xx
	1334790000	UR20- 16AUX-FE	Pot. distribution, 16 connections, functional earth	01.02.xx

- To be continued -

Module type	Order number	Model	Description	Hardware version
Digital modules	1315550000	UR-20-4RO-CO-255	4 digital relay outputs	01.03.xx
	1315540000	UR-20-4RO-SSR-255	4 digital outputs, semiconductor	01.10.xx
	1315570000	UR-20-1CNT-100-1DO	1 channel, counter, 100kHz	00.91.xx
	1315580000	UR-20-1CNT-500	1 channel, counter, 500kHz	01.00.xx
	1315590000	UR-20-2CNT-100	2 channel, counter, 100kHz	00.90.xx
	1508080000	UR-20-2FCNT-100	2 channel, frequency counter, 100kHz	00.91.xx
Interface modules	1315750000	UR-20-1COM-233-485-422	1 serial interface, 115200 bps	01.06.xx
	1508090000	UR-20-ISSI	1 SSI encoder	01.00.xx
Power measurement module	2007420000	UR-20-3EM-230V-AC	6 channels for 3 phase measurements	01.40.xx
Power-feed modules	1334710000	UR-20-PF-I	For input current path	01.01.xx
	1334740000	UR-20-PF-O	For output current path	01.01.xx
Empty slot	1315770000	UR-20-ES	Empty slot as reserve module	01.00.xx

3. Documentation and Test Reports:

Weidmüller :

LAB20808E (2017-01-04), LAB20807E (2017-01-04), LAB20772E (2016-12-21),
 LAB21033E (2017-05-09), LAB20841E (2017-04-06), LAB21232E (2017-07-12),
 LAB21221E (2017-08-22), LAB21222E (2017-08-22), LAB21507E (2018-02-14)
 LAB21546E (2018-02-09)

RS Schwarze :

2016142a (10 Nov. 2016) (LAB20776E), 2016142c (14 Nov. 2016) (LAB20778E),
 2017013 (31 Jan. 2017) (LAB20987E), 2017074 (08 June 2017) (LAB21109E),
 2018010 (06 Feb. 2018) (LAB21552E)

- To be continued -

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±4g × 1.5 hours)		X
Inclination test		--
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

The product is not allowed to be installed on open decks.