



CERTIFICATE NUMBER	23-2402380-PDA
EFFECTIVE DATE	05-Jul-2023
EXPIRY DATE	04-Jul-2028
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

WEIDMUELLER INTERFACE GMBH & CO. KG

located at

KLINGENBERGSTRASSE 26, , D-32758 DETMOLD, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Programmable Logic Controls, I/O Components and Communicatio...

Model: u-remote / UR20-... series
u-control / UC20-... series

Endorsements:

Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 04/Jul/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Efstratios Maliatsos
Efstratios Maliatsos, Engineer Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued

Product: Programmable Logic Controls, I/O Components and Communication Interfaces

Model: u-remote / UR20-... series
u-control / UC20-... series

Endorsements:

Intended Service:

I/O modules on AMS, ACC, ACCU and ABCU Classed vessels.

Description:

u-remote (UR20-) devices are IO units in common fieldbus system.
u-control (UC20-) devices are programmable logic controllers (PLCs).
For the list of the approved modules refer to certificate attachment.

Rating:

Power Supply: 24 V DC

Ambient Temperature: -20°C to +60°C for all UR20- products, -20°C to +55°C for all UC20- products

Degree of Protection: IP20

Certified Safe Type UR20- models (with exception of UR20-FBC-IEC61162-450):

ref. DEMKO 15 ATEX 1525X Rev. 10

II 3G Ex ec nC IIC T4 Gc (model UR20-4RO-CO-255 only)

II 3G Ex ec IIC T4 Gc (all other models)

ref. IECEx ULD 15.0013X Issue No. 10

Ex eC nC IIC T4 Gc (model UR20-4RO-CO-255 only)

Ex eC IIC T4 Gc (all other models)

Service Restriction:

1. Unit Certification is not required for the original equipment manufacturer. However, unit certification in accordance with 4-9-9/Table 2 is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Approval is for hardware only. Each particular application/installation is to be specifically approved in conjunction with the relevant system in which the units are being used.

Notes/Drawing/Documentation:

See attachment.

Terms of Validity:

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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

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Tier: 2 - PDA Issued

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STANDARDS

ABS Rules:

2023 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-3/11, 4-9-9/13.1, 4-9-9/Table 1 & Table 2

2023 Mobile Offshore Unit Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

Weidmueller Interface GmbH & Co KG
PDA Certificate No. 23-2402380-PDA
Issue date: 05-July-2023
Expiration date: 04-July-2028

The following modules are covered:

Fieldbus Coupler				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-FBC-EC	1334910000	02.04.xx / 02.06.xx	02.01.xx	Update
UR20-FBC-PB-DP-V2	2614380000	01.00.xx / 01.01.xx	01.12.xx	new
UR20-FBC-PN-IRT-V2	2566380000	01.00.xx / 01.01.xx	01.13.xx	Update
UR20-FBC-CAN	1334890000	01.08.xx / 01.09.xx	01.10.xx	Update
UR20-FBC-EIP	1334920000	02.03.xx / 02.04.xx	02.13.xx	Update
UR20-FBC-EIP-V2	1550550000	01.00.xx / 01.01.xx	01.03.xx	new
UR20-FBC-PL	1334940000	01.05.xx / 01.06.xx	01.10.xx	Update
UR20-FBC-MOD-TCP-V2	2476450000	01.05.xx / 01.06.xx	02.10.xx	Update
UR20-FBC-IEC61162-450	2661310000	01.05.xx / 01.06.xx	01.02.xx	Update
UR20-FBC-CC	2625010000	01.00.xx / 01.01.xx	01.02.xx	Update
UR20-FBC-CC-TSN	2680260000	01.01.xx / 01.02.xx	01.03.xx	Update

Digital Input Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-4DI-P	1315170000	01.30.xx	N/A	Update
UR20-4DI-P-3W	2009360000	01.30.xx	N/A	Update
UR20-8DI-P-2W	1315180000	01.10.xx	N/A	Update
UR20-8DI-P-3W	1394400000	01.40.xx	N/A	Update
UR20-8DI-P-3W-HD	1315190000	01.11.xx	N/A	Update
UR20-16DI-P	1315200000	01.40.xx	N/A	Update
UR20-16DI-P-PLC-INT	1315210000	01.30.xx	N/A	Update
UR20-2DI-P-TS	1460140000	01.30.xx	N/A	Update
UR20-4DI-P-TS	1460150000	01.30.xx	N/A	Update
UR20-4DI-P-TS-V2	2792150000	01.02.xx	N/A	new
UR20-4DI-N	1315350000	01.40.xx	N/A	Update
UR20-8DI-N-3W	1315370000	01.60.xx	N/A	Update
UR20-16DI-N	1315390000	01.31.xx	N/A	Update
UR20-16DI-N-PLC-INT	1315400000	01.30.xx	N/A	Update
UR20-4DI-2W-230V-AC	1550070000	01.31.xx	N/A	Update
UR20-8DI-ISO-2W	2457240000	01.02.xx	N/A	new

Digital Output Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-4DO-P	1315220000	01.31.xx	N/A	Update
UR20-4DO-P-2A	1315230000	01.40.xx	N/A	Update
UR20-4DO-PN-2A	1394420000	01.11.xx	N/A	Update
UR20-8DO-P	1315240000	01.61.xx	N/A	Update
UR20-8DO-P-2W-HD	1509830000	01.11.xx	N/A	Update
UR20-16DO-P	1315250000	01.92.xx	N/A	Update
UR20-16DO-P-PLC-INT	1315270000	01.41.xx	N/A	Update
UR20-4DO-N	1315410000	01.11.xx	N/A	Update
UR20-4DO-N-2A	1315420000	01.11.xx	N/A	Update
UR20-8DO-N	1315430000	01.21.xx	N/A	Update
UR20-16DO-N	1315440000	01.21.xx	N/A	Update
UR20-16DO-N-PLC-INT	1315270000	01.21.xx	N/A	Update
UR20-4DO-ISO-4A	2457250000	01.53.xx	N/A	new
UR20-4RO-SSR-255	1315540000	01.31.xx	N/A	Update
UR20-4RO-CO-255	1315550000	01.21.xx	N/A	Update

Analogue Input Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-2AI-UI-16	2705620000	01.31.xx	01.03.xx	new
UR20-2AI-UI-16-DIAG	2566090000	01.31.xx	01.03.xx	new
UR20-4AI-UI-16	1315620000	01.31.xx	01.03.xx	Update
UR20-4AI-UI-16-DIAG	1315690000	01.31.xx	01.03.xx	Update
UR20-4AI-UI-DIF-16-DIAG	1993880000	01.30.xx	01.05.XX	Update
UR20-4AI-UI-DIF-32-DIAG	2544660000	01.30.xx	01.01.xx	new
UR20-4AI-UI-ISO-16-DIAG	2566960000	00.60.xx	01.01.xx	Update
UR20-4AI-UI-16-HD	1506920000	01.10.xx	01.02.xx	new
UR20-4AI-UI-16-DIAG-HD	1506910000	01.10.xx	01.02.xx	new
UR20-4AI-UI-12	1394390000	01.40.xx	01.02.xx	Update
UR20-8AI-I-16-HD	1315650000	01.10.xx	01.02.xx	new
UR20-8AI-I-16-DIAG-HD	1315720000	01.10.xx	01.02.xx	new
UR20-8AI-I-PLC-INT	1315670000	01.20.xx	01.02.xx	new
UR20-4AI-RTD-DIAG	1315700000	01.30.xx	01.00.xx	Update
UR20-4AI-RTD-HP-DIAG	2456540000	01.30.xx	01.00.xx	new
UR20-4AI-TC-DIAG	1315710000	01.30.xx	01.00.xx	Update
UR20-4AI-R-HS-16-DIAG	2001670000	01.10.xx	01.00.xx	Update
UR20-4AI-I-HART-16-DIAG	2617520000	01.10.xx	01.00.xx	Update
UR20-8AI-RTD-DIAG-2W	2555940000	01.30.xx	01.00.xx	new

Analog Output Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-2AO-UI-16	2705630000	01.31.xx	01.03.xx	new
UR20-2AO-UI-16-DIAG	2566100000	01.31.xx	01.03.xx	new
UR20-2AO-UI-ISO-16-DIAG	2566970000	01.10.xx	01.00.xx	new
UR20-4AO-UI-16	1315680000	01.31.xx	01.03.xx	new
UR20-4AO-UI-16-M	2453880000	01.10.xx	01.03.xx	Update
UR20-4AO-UI-16-DIAG	1315730000	01.31.xx	01.03.xx	new
UR20-4AO-UI-16-M-DIAG	2453870000	01.10.xx	01.03.xx	Update

Digital counter modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-1CNT-100-1DO	1315570000	01.01.xx	N/A	Update
UR20-2CNT-100	1315590000	01.02.xx	N/A	Update
UR20-1CNT-500	1315580000	01.11.xx	N/A	Update
UR20-2FCNT-100	1508080000	01.02.xx	N/A	Update

Communication Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-1SSI	1508090000	01.11.xx	N/A	Update
UR20-1COM-232-485-422	1315750000	01.20.xx	01.00.xx	Update
UR20-1COM-232-485-422-V2	2826800000	01.00.xx	01.00.xx	new
UR20-1COM-SAI-PRO	2007430000	01.20.xx	01.02.xx	new
UR20-1COM-CANOPEN	2489840000	01.20.xx	01.00.xx	Update

Digital Input and Output Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-8DIO-P-3W-DIAG	2456530000	01.10.xx	01.00.xx	new

Digital Pulse Width Modulation Modules				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-2PWM-PN-0.5A	1315600000	01.11.xx	N/A	new
UR20-2PWM-PN-2A	1315610000	01.11.xx	N/A	new

Safe I/O Modules				
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Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-4DI-4DO-PN-FSOE-V2	2464580000	01.13.xx / 01.14.xx	01.00.xx	new
UR20-8DI-PN-FSOE-V2	2464600000	01.12.xx / 01.14.xx	01.00.xx	new
UR20-4DI-4DO-PN-FSPS-V2	2464570000	01.13.xx / 01.14.xx	01.06.xx	new
UR20-8DI-PN-FSPS-V2	2464590000	01.13.xx / 01.14.xx	01.00.xx	new

Auxiliary				
Part Name	Part Number	HVN	SVN	Reval. 2023
UR20-PF-I	1334710000	01.31.xx	N/A	Update
UR20-PF-O	1334740000	01.31.xx	N/A	Update
UR20-ES	1315770000	01.00.xx	N/A	Update
UR20-16AUX-I	1334770000	01.02.xx	N/A	Update
UR20-16AUX-O	1334780000	01.01.xx	N/A	Update
UR20-16AUX-FE	1334790000	01.02.xx	N/A	Update
UR20-16AUX-GND-I	1334800000	01.02.xx	N/A	Update
UR20-16AUX-GND-O	1334810000	01.02.xx	N/A	Update

u-control UC20				
Part Name	Part Number	HVN	SVN	Reval. 2023
UC20-SL2000-EC	2674520000	01.22.xx	0.3.2	no change
UC20-SL2000-EC-CAN	2674620000	01.22.xx	0.3.2	no change
UC20-SL2000-AC-EC	2708400000	01.22.xx	0.3.2	no change
UC20-SL2000-AC-EC-CAN	2655600000	01.22.xx	0.3.2	no change
UC20-SL2000-OLAC-EC	2638920000	01.22.xx	0.3.2	no change
UC20-SL2000-OLAC-EC-CAN	2655590000	01.22.xx	0.3.2	no change
UC20-WL2000-AC	1334950000	01.22.xx	0.3.2	no change
UC20-WL2000-AC-CAN	2564970000	01.22.xx	0.3.2	no change
UC20-WL2000-IOT	1334990000	01.22.xx	0.3.2	no change