



CERTIFICATE NUMBER 18-HG1762327-PDA  
EFFECTIVE DATE 28-August-2018  
EXPIRATION DATE 27-August-2023  
ABS TECHNICAL OFFICE  
Hamburg Engineering Department

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## 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 16, 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** PLC, I/O Components and Communication Interfaces

**Model** UR20-FBC-xxx, UR20-xDO-xxx, UR20-xDI-xxx, UR20-xAO-xxx, UR20-xAI-xxx

This Product Design Assessment (PDA) Certificate remains valid until expiration date 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

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Ulf Numirski  
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).

**WEIDMUELLER INTERFACE GMBH & CO. KG**

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Germany

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**Tier: 2 - PDA Issued**

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

**Model:** UR20-FBC-xxx, UR20-xDO-xxx, UR20-xDI-xxx, UR20-xAO-xxx, UR20-xAI-xxx

**Intended Service:**

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

**Description:**

The modular u-remote systems supports common fieldbus system.  
Up to 64 active I/O modules can be combined in a u-remote station.  
For more details see attached sheets.

**Rating:**

Power Supply: 24 V DC

Ambient Temperature: -20° C to +60° C

Degree of Protection: IP20

**Service Restriction:**

Unit Certification is not required for this product. 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:**

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 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:**

Drawing No. 1315190000, Data Sheet- Technical Data- UR20-8DI-P-3W-HD\_en, Revision: -, Pages: -  
Drawing No. 1315220000, Data Sheet- Technical Data- UR20-4DO-P\_en, Revision: -, Pages: -  
Drawing No. 1315390000, Data Sheet- Technical Data- UR20-16DI-N\_en, Revision: -, Pages: -  
Drawing No. 1315440000, Data Sheet- Technical Data- UR20-16DO-N\_en, Revision: -, Pages: -  
Drawing No. 1315750000, Data Sheet- Technical Data- UR20-1COM-232-485-422- en, Revision: -, Pages: -  
Drawing No. 1334780000, Data Sheet- Technical Data- UR20-16AUX-O\_en, Revision: -, Pages: -  
Drawing No. 1334870000, Data Sheet- Technical Data- UR20-FBC-PB-DP\_en, Revision: -, Pages: -  
Drawing No. 1460140000, Data Sheet- Technical Data- UR20-2DI-P-TS\_en, Revision: -, Pages: -  
Drawing No. 1509830000, Data Sheet- Technical Data- UR20-8DO-P-2W-HD\_en, Revision: -, Pages: -  
Drawing No. 2009360000, Data Sheet- Technical Data- UR20-4DI-P-3W\_en, Revision: -, Pages: -  
Drawing No. LAB21507E, Laboratory Report- ON LO17-01311- Type\_Release Measurement, Weidmueller,  
14/02/2018, Revision: -, Pages: -  
Drawing No. LAB21546E, Laboratory Report- ON LO17-01346- Type\_Release Measurement, Weidmueller,  
09/02/2018, Revision: -, Pages: -  
Drawing No. LAB21552E, EMC Test Laboratory- Test Report No 2018010- Remote-IO SY, RS Schwarze,  
06/02/2018, Revision: -, Pages: -  
Drawing No. UR20-16AUX-O, DWGs- UR20-16AUX-O\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-16DI-N, DWGs- UR20-16DI-N\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-16DO-N, DWGs- UR20-16DO-N\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-1COM-232-485-422, DWGs- UR20-1COM-232-485-422\_Finished Part\_PCBA Documentation,  
Revision: -, Pages: -  
Drawing No. UR20-2DI-P-TS, DWGs- UR20-2DI-P-TS\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-4DI-P, DWGs- UR20-4DI-P\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-4DI-P-3W, DWGs- UR20-4DI-P-3W\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
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Drawing No. UR20-4DO-P, DWGs- UR20-4DO-P\_Finished Part\_PCBA Documentation, Revision: -, Pages: -  
Drawing No. UR20-8DI-P-3W-HD, DWGs- UR20-8DI-P-3W-HD\_Finished Part\_PCBA Documentation, Revision: -  
, Pages: -  
Drawing No. UR20-8DO-P-2W-HD, DWGs- UR20-8DO-P-2W-HD\_Finished Part\_PCBA Documentation,  
Revision: -, Pages: -  
Drawing No. UR20-FBC-PB-DP, DWGs- UR20-FBC-PB-DP\_Finished Part\_PCBA Documentation, Revision: -,  
Pages: -

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 18-HG1762327-PDA, dated 28/Aug/2018 remains valid until 27/Aug/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

2018 Steel Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-9-3/3.3, 4-9-8/Table 1

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA

**Additional Product Details****I/O Components****UR20-xxx****Weidmueller Interface GmbH & Co KG**  
**PDA Certificate No. 18-HG1762327-PDA****Issue date: 28.08.2018****Expiration date: 27.08.2023**

The following modules are covered:

## Fieldbus Coupler

<b>Part Name</b>	<b>Part Number</b>
UR20-FBC-PL	1334940000
UR20-FBC-CAN	1334890000
UR20-FBC-PN-IRT	1334880000
UR20-FBC-MOD-TCP-V2	2476450000
UR20-FBC-EIP	1334920000
UR20-FBC-EC	1334910000
UR20-FBC-PB-DP	1334870000

## Auxiliary Module

<b>Part Name</b>	<b>Part Number</b>
UR20-16AUX-I	1334770000
UR20-16AUX-O	1334780000
UR20-16AUX-FE	1334790000
UR20-16AUX-GND-I	1334800000
UR20-16AUX-GND-O	1334810000

## Digital Input

<b>Part Name</b>	<b>Part Number</b>
UR20-2DI-P-TS	1460140000
UR20-4DI-P	1315170000
UR20-4DI-P-TS	1460150000
UR20-4DI-P-3W	2009360000
UR20-8DI-P-2W	1315180000
UR20-8DI-P-3W	1394400000
UR20-8DI-P-3W-HD	1315190000
UR20-16DI-P	1315200000
UR20-16DI-P-PLC-INT	1315210000
UR20-4DI-N	1315350000
UR20-8DI-N-3W	1315370000
UR20-16DI-N	1315390000
UR20-16DI-N-PLC-INT	1315400000

**Additional Product Details****I/O Components****UR20-xxx****Weidmueller Interface GmbH & Co KG**  
**PDA Certificate No. 18-HG1762327-PDA****Issue date: 28.08.2018****Expiration date: 27.08.2023****Digital Output**

<b>Part Name</b>	<b>Part Number</b>
UR20-4DO-P	1315220000
UR20-4DO-P-2A	1315230000
UR20-8DO-P	1315240000
UR20-8DO-P-2W-HD	1509830000
UR20-16DO-P	1315250000
UR20-16DO-P-PLC-INT	1315270000
UR20-4DO-N	1315410000
UR20-4DO-N-2A	1315420000
UR20-8DO-N	1315430000
UR20-16DO-N	1315440000
UR20-16DO-N-PLC-INT	1315450000
UR20-4DO-PN-2A	1394420000

**230 V**

<b>Part Name</b>	<b>Part Number</b>
UR20-4RO-SSR-255	1315540000
UR20-4RO-CO-255	1315550000
UR20-4DI-2W-230V-AC	1550070000
UR20-3EM-230V-AC	2007420000

**Analog Input**

<b>Part Name</b>	<b>Part Number</b>
UR20-4AI-UI-12	1394390000
UR20-4AI-UI-16	1315620000
UR20-4AI-UI-16-DIAG	1315690000
UR20-4AI-UI-DIF-16-DIAG	1993880000
UR20-4AI-RTD-DIAG	1315700000
UR20-4AI-TC-DIAG	1315710000
UR20-2AI-SG-24-DIAG	1990070000

**Analog Output**

<b>Part Name</b>	<b>Part Number</b>
UR20-4AO-UI-16-M	2453880000
UR20-4AO-UI-16-M-DIAG	2453870000

**Additional Product Details**

**I/O Components**  
**UR20-xxx**

**Weidmueller Interface GmbH & Co KG**  
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Power Supply

<b>Part Name</b>	<b>Part Number</b>
UR20-PF-I	1334710000
UR20-PF-O	1334740000

Counter & Communication

<b>Part Name</b>	<b>Part Number</b>
UR20-2FCNT-100	1508080000
UR20-2CNT-100	1315590000
UR20-1CNT-100-1DO	1315570000
UR20-1CNT-500	1315580000
UR20-1COM-232-485-422	1315750000

Special Functions

<b>Part Name</b>	<b>Part Number</b>
UR20-1SSI	1508090000
UR20-ES	1315770000