



CERTIFICATE NUMBER	21-2078062-PDA
EFFECTIVE DATE	08-Feb-2021
EXPIRY DATE	07-Feb-2026
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: UC20-SL2000-EC, UC20-SL2000-EC-CAN, UC20-SL2000-AC-EC, UC20-SL2000-AC-EC-CAN, UC20-SL2000-OLC-EC, UC20-SL2000-OLC-EC-CAN, UC20-SL2000-OLAC-EC, UC20-SL2000-OLAC-EC-CAN, UC20-WL2000-...
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 07/Feb/2026 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, 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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Web: www.weidmueller.de

Tier: 2 - PDA Issued

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

Model: UC20-SL2000-EC, UC20-SL2000-EC-CAN, UC20-SL2000-AC-EC, UC20-SL2000-AC-EC-CAN, UC20-SL2000-OLC-EC, UC20-SL2000-OLC-EC-CAN, UC20-SL2000-OLAC-EC, UC20-SL2000-OLAC-EC-CAN, UC20-WL2000-AC, UC20-WL2000-AC-CAN, UC20-WL2000-IOT

Endorsements:

Intended Service:

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

Description:

u-control devices are programmable logic controllers (PLCs) which can be programmed in 2 different ways. Models with the name UC20-WL2000 have an integrated engineering tool for configuration, parameterization and programming over a web interface. Models with the name UC20-SL2000 are programmed by a PC-based engineering tool u-create studio provided by Weidmüller.

Rating:

Power Supply: 24 V DC

Ambient Temperature: -20° C to +55° C

Degree of Protection: IP20

Service Restriction:

1. Unit Certification is not required for the original equipment manufacturer. However, unit certification in accordance with 4-9-3/Table 2 and 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. 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. 1334950000 UC20-WL2000-AC en.pdf, Datasheet UC20-WL2000-AC

Drawing No. 1334990000 UC20-WL2000-IOT en.pdf, Datasheet UC20-WL2000-IOT

Drawing No. 2604080000_05_12-2020 MANU UC20-xL2000 DRAFT en.pdf, Manual UC20

Drawing No. 2638920000 UC20-SL2000-OLAC-EC en.pdf, Datasheet UC20-SL2000-OLAC-EC

Drawing No. 2655590000 UC20-SL2000-OLAC-EC-CAN.pdf, Datasheet UC20-SL2000-OLAC-EC

Drawing No. 66419 UC20-WL2000 AC 00 Sheet.pdf, Assembly UC20-WL2000-AC

Drawing No. 70660 UC20-SL2000-EC-CAN_2 Laser_layout_2696700000.pdf, Marking UC20-SL2000-EC-CAN

Drawing No. EC00003441 PCBA Modification Description.pdf, Modification Description

Drawing No. Addendum to EC00003441 rev. 0.1, Final tests after modification of PCB

Drawing No. LAB22790E, ENV Test Report, Weidmueller Central Laboratory, 06-05-2020

Drawing No. LAB23013E, EMC Test Report, Conducted Low Freq., RS Schwarze, 18-05-2020

Drawing No. LAB23060E, EMC Test Report, Weidmueller Central Laboratory, 03-11-2020

Drawing No. LAB22919E, IEC 61131-2 Test report, Weidmueller Central Laboratory, 11.08.2020

Drawing No. UC20-Docu - ABS - 2020-12-10.xlsx, UC20-Docu - ABS - 2020-12-10

Drawing No. UC20-Uebersicht der Unterschiede.xlsx, UC20-Uebersicht

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Tier: 2 - PDA Issued

Terms of Validity:

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STANDARDS

ABS Rules:

2021 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, 4-9-3/3.3, 4-9-9/13.1, 4-9-9/Table 1 & Table 2

2021 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