

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Type Examination Certificate Number: **UL 20 ATEX 2459X Rev. 0**

Product: **UC20 u-control series of Open-type Programmable Controllers**

Manufacturer: **Weidmüller Interface GmbH & Co. KG**

Address: **Klingenbergstraße 26, 32758 Detmold, Germany**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **DK/ULD/ExTR20.0033/00**.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7: 2015 +A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following:

 **II 3 G Ex ec IIC T4 Gc**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2020-12-17

Certification Body

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Schedule

TYPE EXAMINATION CERTIFICATE No.

UL 20 ATEX 2459X Rev. 0

Description of Product:

These modules are intended to be used in combination with programmable controllers and intended to be used for communication and input / output purposes. The system consists of Bus Coupler Modules and Input / Output Modules with different functions. The Input and Output Modules are consisting of a base module with connections to the communication bus and power sources, different electronic modules and a modular terminal block module. The equipment is intended to be supplied by a switched-mode regulated power supply unit (SMPSU).

The modules use two different PCB variants: One variant supporting CAN functionality, one variant without CAN functionality. All other differences are only in the used software.

Models UC20-WL2000-AC, UC20-SL2000-EC, UC20-SL2000-AC-EC, UC20-SL2000-OLC-EC, UC20-SL2000-OLAC-EC, UC20-SL2000-EC-CAN, UC20-SL2000-AC-EC-CAN, UC20-SL2000-OLC-EC-CAN, UC20-SL2000-OLAC-EC-CAN, UC20-WL2000-IOT, UC20-WL2000-AC-CAN, UC20-WL2000-AC-EC, UC20-WL2000-AC-EC-CAN

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Temperature range:

The ambient temperature range is -20 °C to +55 °C.

Electrical data

Model	Type	Main Input	Auxiliary Input / Output
UC20-WL2000-AC UC20-SL2000-EC UC20-SL2000-AC-EC UC20-SL2000-OLC-EC UC20-SL2000-OLAC-EC UC20-SL2000-EC-CAN UC20-SL2000-AC-EC-CAN UC20-SL2000-OLC-EC-CAN UC20-SL2000-OLAC-EC-CAN UC20-WL2000-IOT UC20-WL2000-AC-CAN UC20-WL2000-AC-EC UC20-WL2000-AC-EC-CAN	Bus Coupler	Input voltage I port: DC 24V Input current at I port at full load: ≤5A Input voltage O port: DC 24V Input current at O port at full load: ≤5A	Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 5A at 55°C

Routine tests:

A dielectric strength test per clause 6.1 / 7.1 of standard EN 60079-7: 2015 +A1:2018.1 shall be carried out between all terminals and contacts and the housing of the equipment.

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. 8 on page 1 of this Type Examination Certificate.


Special Conditions of Use:

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with EN 60079-0, accessible only by the use of a tool.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- When installed in areas requiring Equipment Protection Level (EPL) "Gc" equipment, the u-control station may only be installed in horizontal orientation

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark **Weidmüller**  will be used as the company identifier on the marking label.