

[1]

TYPE EXAMINATION CERTIFICATE



[2]

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

[3]

Type Examination Certificate Number: **DEMKO 15 ATEX 1525X Rev. 14**

[4]

Product: **Interface Modules, Open Type Programmable Controllers – Series UR20 u-remote**

[5]

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

[6]

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

[7]

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

[8]

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/ExTR15.0014/14.**

[9]

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

**EN IEC 60079-0:2018
EN IEC 60079-15:2019**

EN 60079-7:2015

EN IEC 60079-7:2015/A1:2018

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11]

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

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):



II 3 G

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



II 3 G

Ex ec IIC T4 Gc (all other models)

Certification Manager

Thomas Wilson

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: 2016-04-13

Re-issued: 2025-04-16

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

[15]

Description of Product:

The Interface modules, Open Type Programmable Controllers – Series UR20 u-remote 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.

Models: UR20-FBC-PN-IRT, UR20-FBC-EC, UR20-FBC-MOD-TCP, UR20-FBC-PB-DP, UR20-4DI-P, UR20-16DI-P, UR20-16DI-P-PLC-INT, UR20-4DO-P, UR20-4DO-P-2A, UR20-8DO-P, UR20-16DO-P, UR20-16DO-P-PLC-INT, UR20-4RO-CO-255, UR20-4AI-UI-16, UR20-8AI-I-PLC-INT, UR20-4AO-UI-16, UR20-4AO-UI-16-DIAG, UR20-4AI-UI-16-DIAG, UR20-4AI-RTD-DIAG, UR20-4AI-TC-DIAG, UR20-PF-I, UR20-PF-O, UR20-16AUX-GND-I, UR20-16AUX-I, UR20-16AUX-GND-O, UR20-16AUX-O, UR20-16AUX-FE, UR20-8DI-P-3W, UR20-ES, UR20-FBC-EIP, UR20-1CNT-100-1DO, UR20-2CNT-100, UR20-2DI-P-TS, UR20-2FCNT-100, UR20-2PWM-PN-0.5A, UR20-2PWM-PN-2A, UR20-4AI-UI-12, UR20-4AI-UI-16-DIAG-HD, UR20-4AI-UI-16-HD, UR20-4DI-P-TS, UR20-4DO-PN-2A, UR20-4RO-SSR-255, UR20-8DI-P-2W, UR20-8DI-P-3W-HD, UR20-PF-O-1DI-SIL, UR20-PF-O-2DI-DELAY-SIL, UR20-PF-O-2DI-SIL, UR20-1COM-232-485-422, UR20-1COM-232-485-422-V2, UR20-1SSI, UR20-4DI-2W-230V-AC, UR20-8AI-I-16-DIAG-HD, UR20-8AI-I-16-HD, UR20-16DO-N, UR20-4DI-N, UR20-8DO-P-2W-HD, UR20-16DI-N, UR20-1CNT-500, UR20-4DO-N, UR20-4DO-N-2A, UR20-8DI-N-3W, UR20-8DO-N, UR20-4DI-4DO-PN-FSPS, UR20-4DI-4DO-PN-FSOE, UR20-8DI-PN-FSPS, UR20-8DI-PN-FSOE, UR20-FBC-CAN, UR20-FBC-DN, UR20-4AO-UI-16-DIAG-HD, UR20-4AO-UI-16-HD, UR20-1COM-SAI-PRO, UR20-4AI-R-HS-16-DIAG, UR20-16DO-N-PLC-INT, UR20-16DI-N-PLC-INT, UR20-FBC-PL, UR20-FBC-MOD-TCP-V2, UR20-4AO-UI-16-M, UR20-4AO-UI-16-M-DIAG, UR20-4AI-UI-DIF-16-DIAG, UR20-4AI-UI-DIF-32-DIAG, UR20-4COM-IO-LINK, UR20-4AI-RTD-HP-DIAG, UR20-4DI-4DO-PN-FSPS-V2, UR20-4DI-4DO-PN-FSOE-V2, UR20-8DI-PN-FSPS-V2, UR20-8DI-PN-FSOE-V2, UR20-2AI-SG-24-DIAG, UR20-FBC-PN-IRT-V2, UR20-1SSI-BTL, UR20-8AI-RTD-DIAG-2W, UR20-8DIO-P-3W-DIAG, UR20-1SM-50W-6DI2DO-P, UR20-FBC-CC, UR20-FBC-PB-DP-V2, UR20-8DI-ISO-2W, UR20-4AI-I-HART-16-DIAG, UR20-4AI-UI-ISO-16-DIAG, UR20-1COM-CAN, UR20-1COM-CANOPEN, UR20-FBC-CC-TSN, UR20-2AO-UI-16-DIAG, UR20-2AO-UI-16, UR20-2AO-UI-ISO-16-DIAG, UR20-4DO-ISO-4A, UR20-2AI-UI-16, UR20-2AI-UI-16-DIAG, UR20-2PWM-I-2.5A-2DI-P, UR20-AUX-VSYS, UR20-8DI-PN-FSCC, UR20-4DI-4DO-PN-FSCC, UR20-4AI-I-HART-ISO-16 may be followed by additional characters.

Model UR20-4RO-CO-255 is protected by "ec nC" concept, all other models are "ec" concept.

Ratings

Model	Type	Main Input	Auxiliary Input / Output
UR20-FBC-PN-IRT UR20-FBC-PN-IRT-V2	Bus Coupler ProfiNet IRT	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-EC	Bus Coupler EtherCat	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-MOD-TCP	Bus Coupler ModBus TCP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 24Vdc, 10A at 55°C, 8A at 60°C

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-FBC-PB-DP	Bus Coupler Profibus DP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-EIP	Bus Coupler Ethernet IP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 24Vdc, 10A at 55°C, 8A at 60°C
UR20-FBC-CAN UR20-FBC-DN	Bus Coupler CANopen	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 10A at 60°C
UR20-FBC-PL	Bus Coupler Powerlink	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting
UR20-FBC-MOD-TCP-V2	Bus Coupler Modbus/TCP	Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A	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: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting
UR20-4DI-P UR20-2DI-P-TS UR20-4DI-P-TS UR20-4DI-N	2 or 4 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC sensor supply: 24Vdc, 2A resistive maximum per sensor, unfused
UR20-16DI-P UR20-16DI-N	16 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC
UR20-16DI-N-PLC-INT	16 Digital Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-16DI-P-PLC-INT	16 Digital Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC sensor supply: 24V dc, 1A maximum per pole, unfused
UR20-4DO-P UR20-4DO-N	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 0.5A resistive maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused
UR20-4DO-P-2A UR20-4DO-N-2A	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 2A resistive or tungsten maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused Total current: 10A per module
UR20-8DO-P UR20-8DO-P-2W-HD UR20-8DO-N	8 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive, pilot duty or tungsten maximum per output
UR20-16DO-P UR20-16DO-N	16 Digital Outputs	rated voltage: 24V DC from internal bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive, pilot duty or tungsten maximum per output
UR20-16DO-N-PLC-INT	16 Digital Outputs	rated voltage: 24V DC from the 4 pole terminal block of the module	24V DC 0.5 A General Purpose (per output channel)
UR20-16DO-P-PLC-INT	16 Digital Outputs	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC output current (auxiliary supply): 24Vdc, 1A maximum per pole, unfused
UR20-4RO-CO-255	4 Relay Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 250Vac rated current: 2.4A per channel at 60°C and 3A per channel at 55°C
UR20-4AI-UI-16 UR20-4AI-UI-12 UR20-4AI-UI-16-HD UR20-8AI-I-16-DIAG-HD UR20-8AI-I-16-HD	4 or 8 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 2A maximum per sensor, unfused, 0.5A for HD version, fused
UR20-8AI-I-PLC-INT	8 Analog Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	type of input: analog 0..20mA or 4..20mA sensor supply: 24Vdc, 1A maximum, fused
UR20-4AO-UI-16 UR20-4AO-UI-16-DIAG UR20-4AO-UI-16-DIAG-HD UR20-4AO-UI-16-HD	4 Analog Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-2AO-UI-16 UR20-2AO-UI-16-DIAG	2 Analog Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-4AI-UI-16-DIAG UR20-4AI-UI-16-DIAG-HD	4 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 0.5A fused
UR20-2AI-UI-16 UR20-2AI-UI-16-DIAG	2 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 2A maximum per sensor, unfused.
UR20-4AI-RTD-DIAG UR20-4AI-RTD-HP-DIAG UR20-8AI-RTD-DIAG-2W	4 or 8 Analog Inputs Resistive Temperature Detection	rated voltage: 24V DC from internal I bus	type of input: analog Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ
UR20-4AI-TC-DIAG	4 Analog Inputs Thermocouple	rated voltage: 24V DC from internal I bus	type of input: analog TC type J, K, T, B, N, E, R, S, L, U, C, mV +/-15.625mV, +/-31.25mV, +/-62.5mV, +/-125mV +/-250mV, 500mV, +/- 1000mV, +/-2000mV
UR20-PF-I	Power Feed Input	rated voltage: 24V DC from 4 pole terminal block	rated voltage: 24V DC rated current: 10A
UR20-PF-O	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block	rated voltage: 24V DC rated current: 10A
UR20-16AUX-GND-I UR20-16AUX-I UR20-ES	Potential Distribution Module for Input Current Path	rated voltage: 24V DC from internal I bus	0V / GND rated current: 10A
UR20-16AUX-GND-O UR20-16AUX-O UR20-16AUX-FE	Potential Distribution Module for Output Current Path	rated voltage: 24V DC from internal O bus	0V / GND rated current: 10A
UR20-8DI-P-3W UR20-8DI-P-2W UR20-8DI-P-3W-HD UR20-8DI-N-3W	8 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC sensor supply: 24Vdc, 2A maximum per sensor unfused, HD version FWT 1 to 4: 0.5A maximum total current, FWT 5 to 8: 0.5A maximum total current
UR20-2FCNT-100 UR20-1CNT100-1DO UR20-2CNT-100	Counter with or without digital output	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC output current 1CNT-1DO: 0.5A resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused

[13]

[14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-2PWM-PN-0.5A UR20-2PWM-PN-2A	Pulse Width Controller with 0.5A or 2A output	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 0.5(for ...PN-0.5A models) 2A (for ...PN-2A models) resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused
UR20-4DO-PN-2A	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 2A resistive or tungsten maximum per output sensor supply: 24Vdc, 2A maximum per sensor, unfused total current per module: 10A maximum
UR20-4RO-SSR-255	4 Solid State Relay Outputs		rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused
UR20-PF-O-1DI-SIL UR20-PF-O-2DI-SIL UR20-PF-O-2DI-DELAY-SIL	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC rated current: OSSD: 8A resistive SSI: 0.5A resistive
UR20-1COM-232-485-422 UR20-1COM-232-485-422-V2 UR20-1SSI-BTL	1 Port Digital Interface	rated voltage: 24 V DC from internal I bus	Data interface signal: 232, 485 or 422 Load sensor supply: 0.4A (5V) or 0.5A (24V) / 0.4A (5V) or 0.4A (24V)
UR20-1SSI	1 Port Synchron Serial Input Card	rated voltage: 24V DC from internal I bus	1 RS422 Output 2 RS422 Input Load sensor supply: 0.4A (5V) or 0.5A (24V)
UR20-1CNT-500	1 Port Counter Inout Card for Incremental Encoder	rated voltage: 24V DC from internal I bus	3 RS422 Inputs Load sensor supply: 0.4A (5V) or 0.5A (24V)
UR20-4DI-4DO-PN-FSPS UR20-4DI-4DO-PN-FSPS-V2 UR20-4DI-4DO-PN-FSOE UR20-4DI-4DO-PN-FSOE-V2	4 digital inputs and 4 digital outputs	rated voltage: 24V DC from internal bus	Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-8DI-PN-FSPS UR20-8DI-PN-FSPS-V2 UR20-8DI-PN-FSOE UR20-8DI-PN-FSOE-V2	8 digital inputs	rated voltage: 24V DC from internal I bus	Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel
UR20-4DI-2W-230V-AC	4 Digital Inputs	rated voltage: 24 V	Rated input voltage: 230V AC
UR20-1COM-SAI-PRO	1 Port Communication Extension	rated voltage: 24V DC from internal I bus	Input signal: SAI-PRO-Module Load sensor supply: 3A
UR20-4AI-R-HS-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog 300Ohm..50kOhm Potentiometer supply (internal 10V DC): 50mA maximum per potentiometer, unfused
UR20-2AI-SG-24-DIAG	Strain Gauge module 2 Analog Inputs	5Vdc system bus 24V DC from internal I bus	rated voltage: 24V DC
UR20-4AO-UI-16-M UR20-4AO-UI-16-M-DIAG	AO Module 4 analog outputs	5Vdc system bus 24V DC from internal O bus	Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA
UR20-4AI-UI-DIF-16-DIAG UR20-4AI-UI-DIF-32-DIAG	AI Module 4 analog inputs	5Vdc system bus 24V DC from internal I bus	Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA
UR20-4COM-IO-LINK	Comm. Module	5Vdc system bus 24V DC from internal I bus	0,5 A per channel, total max. 2 A
UR20-8DIO-P-3W-DIAG	Digital I/O Module	5Vdc system bus: 8mA 24Vdc output rail: 34mA + 4*0.3 A sensor supply	8 output channels ≤ 0.5 A each
UR20-1SM-50W-6DI2DO-P	Stepper Motor Module	5Vdc system bus: 8mA 24Vdc input current path: 27 mA 24Vdc output current path: 10 mA	2 output channels ≤ 0.5 A each 6 input channels max. 0.5 A each For 40°C ambient: Stepper motor supply 50 V, 2 A; For 60°C ambient: Stepper motor supply 30 V, 1 A
UR20-FBC-PB-DP-V2	Bus Coupler Profibus DP	Input voltage I port: DC 24V +20%/-15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$	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: 10A at 60°C, horizontal mounting.
UR20-FBC-CC	Bus Coupler CC-Link	Input voltage I port: DC 24V +20%/-15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$	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: 10A at 60°C, horizontal mounting.

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Model	Type	Main Input	Auxiliary Input / Output
UR20-8DI-ISO-2W	DI module 8 digital inputs	5 V DC 8 mA from system bus	24 Vdc and 48 Vdc input types
UR20-4AI-I-HART-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog HART 0..20mA or 4..20mA; Sensor supply (auxiliary 24V DC): 0.5A maximum per sensor, fused
UR20-4AI-UI-ISO-16-DIAG	AI Module 4 analog inputs	Rated voltage: 24V DC from internal I bus	Type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-1COM-CAN, UR20-1COM-CANOPEN	1 port Communication module	Rated voltage: 24V DC from internal I bus	Data interface signal: CANopen bus
UR20-FBC-CC-TSN	CC-Link IE TSN Fieldbus Coupler	System supply: SELV 24Vdc +20%/-15% Supply for I/O rails: SELV 24Vdc +20%/-15% Rail current in/out: 10A max. (horizontal mounting, 60°C surrounding air temperature)	System bus: 5Vdc +/-2%, 2.56A full load
UR20-2AO-UI-ISO-16-DIAG	AO Module 2 isolated analog outputs	Rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
UR20-4DO-ISO-4A	DO Module 4 isolated digital outputs	Rated voltage: 24V DC from internal O bus	Rated voltage: 48V DC / 24V AC (from external supply; not from O bus) output current: 4A DC / 2A AC maximum per output; Total current per module: 16A DC / 8A AC maximum
UR20-2PWM-I-2.5A-2DI-P	PWM Module with 2 PWM outputs; 2 digital inputs	Rated voltage: 24V DC from internal O bus	2 Inputs, -30... +30Vdc Sensor supply (auxiliary 24V DC): 0.3 A maximum per sensor, fused 2 PWM outputs: 24V DC, max 3A, 1-channel operation; 24Vdc DC, max 2.5A, 2-channel operation
UR20-AUX-VSYS	Auxiliary module	Rated voltage: 5V DC from internal system bus; rated current 820 mA	N/A
UR20-8DI-PN-FSCC UR20-8DI-PN-FSPS-V2 (alt. construction) UR20-8DI-PN-FSOE-V2(alt. construction)	Digital input module with 8 digital inputs	Rated voltage: 24V DC from internal bus	Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel (4)
UR20-4DI-4DO-PN-FSCC UR20-4DI-4DO-PN-FSPS-V2 (alt. construction) UR20-4DI-4DO-PN-FSOE-V2 (alt. construction)	Digital input and output module with 4 digital inputs and 4 digital outputs	Rated voltage: 24V DC from internal bus	Input Signal P-Mode: 24V / N-Mode: 0V Load Output signal: 0.5A, each channel (4) Load Sensor Supply: 0.8A, each channel (2)
UR20-4AI-I-HART-ISO-16	Analogue input module with 4 analogue inputs	Rated voltage: 24V DC from internal bus	Type of input: 0..20mA, 4..20mA, 4..20mA HART

The optical radiation output of the products 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 +60°C unless otherwise specified in the table above.

Electrical data

Input = 24Vdc. Other ratings as per the above table.

[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 14

Routine tests:

According to EN IEC 60079-7, clause 7.1 in combination with clause 6.1, a dielectric strength test has to be carried out at 100% of the products. Alternatively, routine tests may be performed on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0,04. Routine test is to be carried out according to the applicable industry standard.

[16]

Descriptive Documents

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

[17]


Specific Conditions of Use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN IEC 60079-0, accessible only by the use of a tool.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- When using relay modules (UR20-4RO-CO-255; UR20-4RO-SSR-255) in explosive atmosphere: Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

[18]

Essential Health and Safety Requirements

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

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