

**UR20-2AO-UI-ISO-16-DIAG****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**2- or 4-wire connection; 16-bit resolution; 4 outputs**

The analogue output module controls up to 4 analogue actuators with  $\pm 10$  V,  $\pm 5$  V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA with an accuracy of 0.05% of the measurement-range end value. An actuator with 2-, 3- or 4-wire technology can be connected to each plug-in connector. The measurement range is defined channel-by-channel using parameterisation. In addition, each channel has its own status LED.

The outputs are supplied from the output current path ( $U_{OUT}$ ).

**General ordering data**

Version	Remote I/O module, IP20, Analog signals, Output, 2-channel, Current/Voltage
Order No.	<a href="#">2566970000</a>
Type	UR20-2AO-UI-ISO-16-DIAG
GTIN (EAN)	4050118576795
Qty.	1 pc(s).
Replacement parts	<a href="#">1350930000</a> <a href="#">2568330000</a>

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## Technical data

## Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Width	11.5 mm	Width (inches)	0.453 inch
Net weight	85 g		

## Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
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## analogue outputs

Accuracy	±0,1 % FSR max., 0,05 % FSR typ.	Actuator connection	2-wire
Cross-talk between the channels in FSR	0.001 %	Individual channel diagnosis	Yes
Load impedance current	< 600 Ω	Max. error between T min. and T max. in FSR	0.24 %
Module diagnosis	Yes	Monotonicity	Yes
Number of analogue outputs	2	Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Repeat accuracy	< 1 mV eff.	Resolution	16 Bit
Response time	1 ms / 2 channels	Short-circuit-proof	Yes
Substitute values	Yes	Temperature coefficient	30 ppm/K
load impedance voltage	≥ 1 kΩ		

## Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.14 mm <sup>2</sup>	Wire cross-section, finely stranded, max. (AWG)	AWG 16
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, solid, max.	1.5 mm <sup>2</sup>
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm <sup>2</sup>
Wire cross-section, solid, min. (AWG)	AWG 26		

## General data

Air humidity (operation)	10% to 95%, non-condensing as per DIN EN 61131-2	Air humidity (storage)	10% to 95%, non-condensing as per DIN EN 61131-2
Air humidity (transport)	10% to 95%, non-condensing as per DIN EN 61131-2	Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2
Air pressure (storage)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2	Air pressure (transport)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2
Pollution severity	2	Rail	TS 35
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27	Surge voltage category	II
Test voltage	500 V	UL 94 flammability rating	V-0
Vibration resistance	5 Hz ≤ f ≤ 8.4 Hz: 3.5-mm amplitude as per IEC 60068-2-6, 8.4 Hz ≤ f ≤ 150 Hz: 1 g acceleration as per IEC 60068-2-6		

Creation date July 16, 2024 10:12:12 PM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

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## Power supply

Current consumption from $I_{OUT}$ (the respective power segment)	110 mA	Current consumption from $I_{sys}$ , typ.	8 mA
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

## System data

Field bus protocol	PROFINET IRT, PROFINET RT, PROFIBUS DP-V1, EtherCAT, Modbus/TCP, EtherNet/IP, CANopen, DeviceNet, POWERLINK, CC-Link, CC-Link IE TSN	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Analogue output module
Process data	4 Byte	Transmission speed of system bus, max.	48 Mbit

## Classifications

ETIM 6.0	EC001596	ETIM 7.0	EC001596
ETIM 8.0	EC001596	ETIM 9.0	EC001596
ECLASS 9.0	27-24-26-01	ECLASS 9.1	27-24-26-01
ECLASS 10.0	27-24-26-01	ECLASS 11.0	27-24-26-01
ECLASS 12.0	27-24-26-01	ECLASS 13.0	27-24-26-01

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULusEX)	E223527

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Approval/Certificate/Document of Conformity	<a href="#">KC certificate</a>
	<a href="#">DNV/GL certificate</a>
	<a href="#">DEMKO15ATEX1525X</a>
	<a href="#">UKCA Declaration of Conformity - EN</a>
	<a href="#">CE Declaration of Conformity - DE</a>
Engineering Data	<a href="#">Compatibility information – Combinability of UR20</a>
	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">Release-Notes - Firmware</a>
Software	<a href="#">Firmware – Current firmware UR20-2AO-UI-ISO</a>
User Documentation	<a href="#">MAN_U-REMOTE_DE</a>
	<a href="#">MAN_U-REMOTE_EN</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

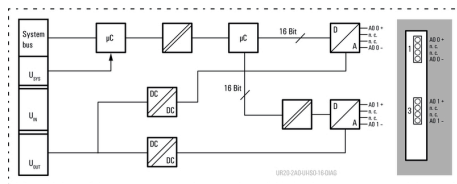
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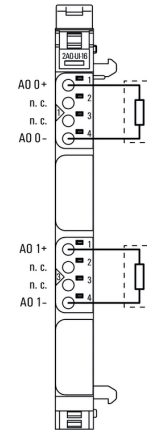
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## Drawings

## Block diagram



## Connection diagram



## Explanation of abbreviations

## Analogue output modules

