

## 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  $\pm 10\text{ V}$ ,  $\pm 5\text{ V}$ ,  $0\text{...}10\text{ V}$ ,  $0\text{...}5\text{ V}$ ,  $2\text{...}10\text{ V}$ ,  $1\text{...}5\text{ V}$ ,  $0\text{...}20\text{ mA}$  or  $4\text{...}20\text{ mA}$  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 (UOUT).

### 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 items

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Technical data

Approvals

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ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

Dimensions and weights

Depth	76 mm	Depth (inches)	2.9921 inch
Height	120 mm	Height (inches)	4.7244 inch
Width	11.5 mm	Width (inches)	0.4528 inch
Net weight	85 g		

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C...60 °C
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption		
RoHS Exemption (if applicable/known)	7a, 7cl		
REACH SVHC	Lead 7439-92-1		
SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8		
Product Carbon Footprint	Cradle to gate	7,799 kg CO2 eq.	

analogue outputs

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

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**Connection data**

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

**General data**

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	UL 94 flammability rating	V-0
Test voltage	500 V	Surge voltage category	II
Pollution severity	2	Mounting rail	TS 35
Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2	Air humidity (transport)	10% to 95%, non-condensing 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	Air pressure (storage)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2
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
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27		

**Power supply**

Supply voltage	24 V DC +20 %/ -15 %, via the system bus	Current consumption from I <sub>sys</sub> , typ.	8 mA
Current consumption from IO <sub>UT</sub> (the respective power segment)	110 mA		

**System data**

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

**Classifications**

ETIM 8.0	EC001596	ETIM 9.0	EC001596
ETIM 10.0	EC001596	ECLASS 14.0	27-24-26-01
ECLASS 15.0	27-24-26-01		

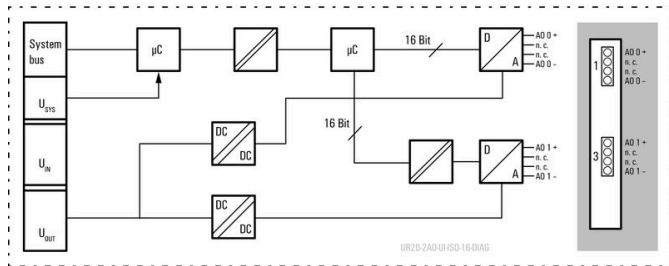
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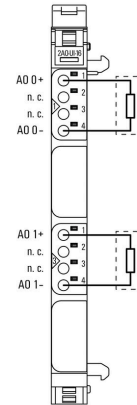
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Drawings

Block diagram



Connection diagram



Explanation of abbreviations

Analogue output modules

