

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**2- or 4-wire connection; 16-bit resolution; 4 outputs**

The analogue output module controls up to 4 analogue actuators with ± 10 V, ± 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.	2566100000
Type	UR20-2AO-UI-16-DIAG
GTIN (EAN)	4050118575736
Qty.	1 pc(s).
Replacement parts	1350930000 2568340000

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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	83 g		

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
Operating temperature, min.	-20 °C	Operating temperature, max.	-60 °C

analogue outputs

Accuracy	±0,1 % FSR max., 0,05 % FSR typ.	Actuator connection	2-wire (automatic detection), 4-wire
Cross-talk between the channels	0.001 % FSR	Individual channel diagnosis	Yes
Load impedance current	< 600 Ω	Max. error between T min. and T max.	0.24 % FSR
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 (at >50 °C ambient temperature, max. total sensor current = 25 mA)		

Connection data

Wire connection cross section, finely stranded, max.	1.5 mm ²	Wire connection cross section, finely stranded, min.	0.14 mm ²
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 ²	Wire cross-section, solid, max. (AWG)	AWG 16
Wire cross-section, solid, min.	0.14 mm ²	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 March 2, 2023 6:30:08 PM CET

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Technical data

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

Connection type

PUSH IN

Galvanic isolation

DC 500 V between current paths

Interface

u-remote system bus

Module type

Analogue output module

Transmission speed of system bus, max. 48 Mbit

Classifications

ETIM 6.0

EC001596

ETIM 7.0

EC001596

ETIM 8.0

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

Environmental Product Compliance

REACH SVHC

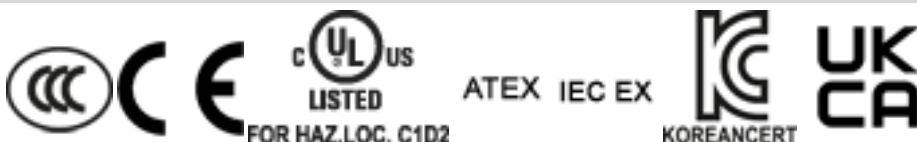
Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3

SCIP

82327f13-cd27-455a-ab5b-a62e1996dcf8

Approvals

Approvals



UL File Number Search

UL Website

Certificate no. (cULusEX)

E223527

Downloads

Approval/Certificate/Document of Conformity

[DEMKO15ATEX1525X](#)
[UKCA Declaration of Conformity - EN](#)
[CE Declaration of Conformity - DE](#)

Engineering Data

[Compatibility information – Combinability of UR20](#)
[CAD data – STEP](#)

Software

[Firmware – Current firmware UR20-2AO-UI](#)

User Documentation

[MAN_U-REMOTE_DE](#)
[MAN_U-REMOTE_EN](#)

Catalogues

[Catalogues in PDF-format](#)

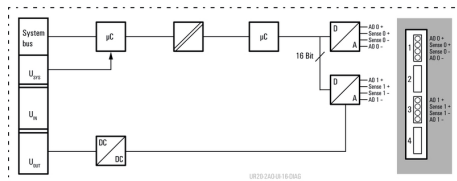
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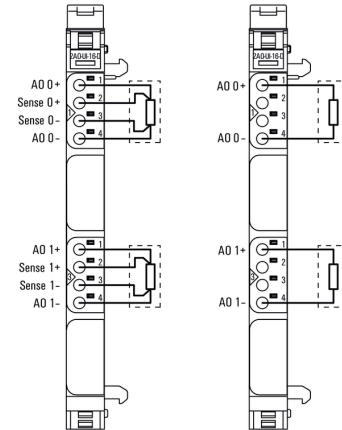
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Drawings

Block diagram



Connection diagram



Explanation of abbreviations

Analogue output modules

