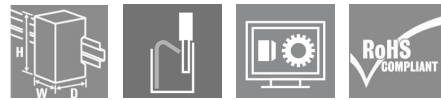


Remote-I/O - u-remote UR20-4AI-UI-16-DIAG

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com



Inputs can be parameterised; up to 3-wire + FE; accuracy 0.1% FSR

Analogue input modules of the u-remote system are available in many variants with different resolutions and wiring solutions.

Variants are available with 12- and 16-bit resolution, which record up to 4 analogue sensors 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 maximum accuracy. Each plug-in connector can optionally connect sensors with 2- or 3-wire technology. The parameters for the measurement range can be individually set for each channel. In addition, each channel has its own status LED. A special variant for Weidmüller interface units enables current measurements with 16-bit resolution and maximum accuracy for 8 sensors at a time (0...20 mA or 4...20 mA).

The module electronics supply the connected sensors with power from the input current path (U_{IN}).

General ordering data

Type	UR20-4AI-UI-16-DIAG
Order No.	1315690000
Version	Remote I/O module, IP20, 4-channel, Analog signals, Input, Current/Voltage, 16 Bit
GTIN (EAN)	4050118118612

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Technical data
Dimensions and weights

Length	76 mm	Length (inches)	2.992 inch
Width	11.5 mm	Width (inches)	0.453 inch
Height	120 mm	Height (inches)	4.724 inch
Depth	76 mm	Depth (inches)	2.992 inch
Mounting dimension - height	128 mm	Net weight	89 g

Temperatures

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

Accuracy	0.1% FSR	Conversion time	1 ms
Individual channel diagnosis	Yes	Internal resistance I	41.2 Ω
Internal resistance U	100 kΩ	Module diagnosis	Yes
Number	4	Resolution	16 Bit
Sensor connection	Dual conductor, Triple conductor, Triple conductor + FE	Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0-20 mA or 4-20 mA)

Connection data

Type of connection	PUSH IN	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	Shock	15 g über 11 ms, halbe Sinuswelle, gem. 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

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Technical data

Power supply

Current consumption from I _{IN} (power segment of the field bus coupler), typ.	8 mA	Current consumption from I _{IN} (the respective power segment)	25 mA + sensor feed
Supply voltage	24 V DC +20%/-15%, via the system bus		

System data

Diagnostic data	1 Bit	Field bus protocol	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK
Galvanic isolation	500 V DC between the current paths	Interface	u-remote system bus
Module type	Analogue input module	Process data	8 Byte
Transmission speed of system bus, max.	48 Mbit		

Classifications

ETIM 5.0	EC001596	ETIM 6.0	EC001597
eClass 6.2	27-24-26-01	eClass 7.1	27-24-26-01
eClass 8.1	27-24-26-01	eClass 9.0	27-24-26-01
eClass 9.1	27-24-26-02		

Product information

Descriptive text accessories	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.
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Approvals

Approvals



WATEXIECEX

ROHS	Conform
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Downloads

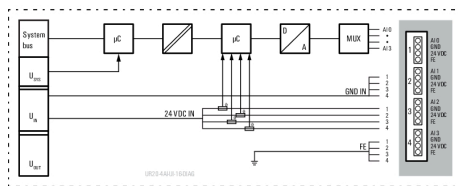
Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Software	Firmware UR20-4AI-UI
User Documentation	Manual

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Drawings

Block diagram



Connection diagram

