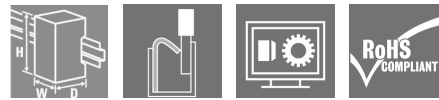


## Automation Products - u-remote IP20 UR20-8AI-I-16-HD

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

### Product image



### 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	UR20-8AI-I-16-HD
Order No.	<a href="#">1315650000</a>
Version	Remote I/O module, IP20, Analog signals, Input, 8-channel
GTIN (EAN)	4050118118834

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### Technical data

#### Dimensions and weights

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	74 g

#### Temperatures

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

#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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#### analogue inputs

Accuracy	0.1% FSR	Conversion time	1 ms
Individual channel diagnosis	No	Internal resistance I	50 Ω
Module diagnosis	Yes	Number of analogue inputs	8
Resolution	16 Bit	Reverse polarity protection	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE		

#### Connection data

Wire connection cross section, finely stranded, max.	0.35 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 22	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, solid, max.	0.35 mm <sup>2</sup>	Wire cross-section, solid, max. (AWG)	AWG 22
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	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

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**Technical data****Power supply**

Current consumption from I <sub>IN</sub> (power segment of the field bus coupler), typ.	8 mA	Current consumption from I <sub>IN</sub> (the respective power segment)	20 mA + load
Reverse polarity protection	Yes	Voltage supply	24 V DC +20%/ -15%, via the system bus

**System data**

Field bus protocol	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK	Galvanic isolation	Yes, between field and system bus
Interface	u-remote system bus	Module type	Analogue input module
Process data	16 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	27-24-26-02
eClass 9.1	27-24-26-02		

**Approvals**

Approvals



ROHS

Conform

**Downloads**

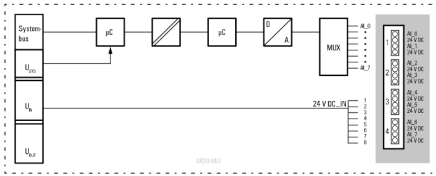
Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT U_REMOTE 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
Engineering Data	<a href="#">STEP</a>
Product Change Notification	<a href="#">Release-Notes - Firmware</a>
Software	<a href="#">4AI_UI-0002150-01_00_36-2</a>
User Documentation	<a href="#">MAN U-REMOTE_DE</a> <a href="#">MAN U-REMOTE_EN</a>

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**Drawings**

**Block diagram**



**Connection diagram**

