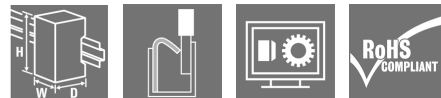


## UR20-8AI-I-16-HD

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

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  $\pm 10$  V,  $\pm 5$  V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA with 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

Version	Remote I/O module, IP20, Analog signals, Input, 8-channel
Order No.	<a href="#">1315650000</a>
Type	UR20-8AI-I-16-HD
GTIN (EAN)	4050118118834
Qty.	1 pc(s).
Replacement parts	<a href="#">1350930000</a> <a href="#">1559740000</a> <a href="#">1347240000</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
Mounting dimension - height	128 mm	Net weight	74 g

## Temperatures

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

REACH SVHC	Lead 7439-92-1	SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8
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## analogue inputs

Accuracy	0.1% FSR	Conversion time	1 ms
Individual channel diagnosis	No	Input value	Current I (0...20 mA, 4...20 mA)
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
Sensor supply	Yes	Short-circuit-proof	Yes

## 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		
Rail	TS 35		
Restricted area	Type of restricted area	thermal	
		Negative expansion	Y coordinate
		Z coordinate	0 mm
		X coordinate	-28 mm
	Positive expansion	Z coordinate	85 mm
		X coordinate	43 mm
Y coordinate		160 mm	
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		

Creation date September 16, 2022 3:22:18 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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## Technical 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

### Power supply

Current consumption from I <sub>IN</sub> (the respective power segment)	20 mA + load	Current consumption from I <sub>sys</sub> , typ.	8 mA
Reverse polarity protection	Yes	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 input module
Process data	16 Byte	Transmission speed of system bus, max.	48 Mbit

### Classifications

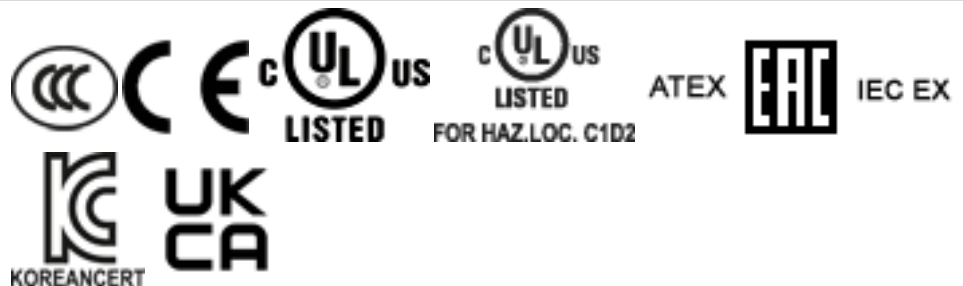
ETIM 6.0	EC001596	ETIM 7.0	EC001596
ETIM 8.0	EC001596	ECLASS 9.0	27-24-26-01
ECLASS 9.1	27-24-26-01	ECLASS 10.0	27-24-26-01
ECLASS 11.0	27-24-26-01	ECLASS 12.0	27-24-26-01

### Important note

Product information Note: Please order connector (1469340000) separately

### Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

## UR20-8AI-I-16-HD

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## Technical data

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a> <a href="#">DEMKO15ATEX1525X</a> <a href="#">CCC certificate</a> <a href="#">UKCA Declaration of Conformity - EN</a>
Engineering Data	<a href="#">CAD data – STEP</a> <a href="#">Compatibility information – Combinability of UR20</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
Product Change Notification	<a href="#">Release-Notes - Firmware</a>
Software	<a href="#">Firmware – Current firmware UR20-4AI-UJ</a> <a href="#">Firmware – Archive firmware UR20-4AI-UJ</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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[FC6A-K4A1](#) [FC6A-T32P3](#) [9-1393028-2](#) [GP32900003700](#) [641-480-5022](#) [PB16H](#) [WISE-4050/LAN-B](#) [WISE-S614T-A](#) [ADAM-4068-C](#)  
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