

## Automation Products - u-remote IP20 UR20-8DIO-P-3W-DIAG

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### Product image



### More performance. Simplified. u-remote.

Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, no more downtime. For considerably improved performance and greater productivity.

Reduce the size of your cabinets with u-remote, thanks to the narrowest modular design on the market and the need for fewer power-feed modules. Our u-remote technology also offers tool-free assembly, while the modular "sandwich" design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service.

This and many other amazing ideas boost the availability of your machines and systems. And ensure smooth processes too. From planning to operation.

u-remote stands for "More Performance". Simplified

### General ordering data

Type	UR20-8DIO-P-3W-DIAG
Order No.	<a href="#">2456530000</a>
Version	Remote I/O module, IP20, Digital signals, Input, Output, 8-channel
GTIN (EAN)	4050118471694
Qty.	1 pc(s).

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### Technical data

#### Dimensions and weights

Width	11.5	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	83 g

#### Temperatures

Operating temperature, max.	60 °C	Operating temperature, min.	-20 °C
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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#### digital inputs

Input filter	Input delay adjustable from 0 to 40 ms	Input voltage, high	> + 11 V referred to 0 V of the output power supply $U_{OUT}$
Input voltage, low	< + 5 V referred to 0 V of the output power supply $U_{OUT}$	Module diagnosis	Yes
Number of digital inputs	8	Reverse polarity protection	No, Input voltage below -10 V can destroy the module
Sensor connection	2-wire, 3-wire	Sensor supply	≥ 0.3 A per connector, limited electronically
Type	PNP switched		

#### digital outputs

Actuator connection	2-wire, 3-wire	Feedback-free	Yes
Inductive load (DC13)	0.2 Hz	Lamp load (12 W)	10 Hz
Module diagnosis	Yes	Number of digital outputs	8
Output current per channel, max.	0.5 A	Output current per module, max.	4 A
Resistive load (min. 47 Ω)	1 kHz	Response time of the protective circuit (current limiting)	< 100µs
Short-circuit-proof	Yes	Switch-off energy (inductive)	< 150 mJ / channel
Type	PNP switched		

#### Connection data

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

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#### 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

#### 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)	8 mA
Current consumption from I <sub>OUT</sub> (the respective power segment)	32 mA + I-Last	Reverse polarity protection	No, Input voltage below -10 V can destroy the module
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

#### System data

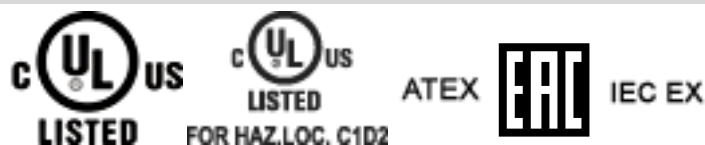
Field bus protocol	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Possible connection	2-wire, 3-wire
Transmission speed of system bus, max.	48 Mbit		

#### Classifications

ETIM 6.0	EC001597	ETIM 7.0	EC001597
eClass 9.0	27-24-26-02	eClass 9.1	27-24-26-02
eClass 10.0	27-24-26-02		

#### Approvals

Approvals



**Data sheet****Automation Products - u-remote IP20  
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**Technical data****Downloads**

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Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">MAN_U-REMOTE_DE</a> <a href="#">MAN_U-REMOTE_EN</a>

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