

**Automation Products - u-remote IP20
UR20-2AI-SG-24-DIAG**

Weidmüller Interface GmbH & Co. KG
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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	UR20-2AI-SG-24-DIAG
Order No.	1990070000
Version	Remote I/O module, IP20, Analog signals, Input, PUSH IN connection
GTIN (EAN)	4050118374902

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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	90 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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analogue inputs

Accuracy	Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference)	Conversion time	5 - 800 ms, parameterisable
Individual channel diagnosis	Yes	Input value	Differential, to evaluate a strain gauge full-bridge
Measurement range	± 150 mV	Module diagnosis	Yes
Number of analogue inputs	2	Permissible sensor load	85 ... 5000 Ω
Resolution	24 bit per channel	Sensor connection	4-wire, 6-wire, parameterisable
Short-circuit-proof	Yes	Supported sensor sensitivity	0.5 mV - 30 V, parameterisable
Temperature coefficient	< 10 ppm/K		

digital inputs

Individual channel diagnosis	Yes	Input filter	10 ms
Input voltage, high	> 11 V	Input voltage, low	< 5 V
Module diagnosis	Yes	Number of digital inputs	2
Sensor connection	4-wire, 6-wire, parameterisable	Sensor supply	max. 10 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		

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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 _{IN} (power segment of the field bus coupler), typ.	8 mA	Current consumption from I _{IN} (the respective power segment)	35 mA
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

System data

Configuration interface	Micro USB 2.0	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
Parameter data	14 Byte	Process data	10 Byte
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



ROHS Conform

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Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
	Compass safe distance certificate
	Lloyds Register certificate
	DNV/GL certificate
	ABS certificate
	RINA certificate
Engineering Data	Bureau Veritas - Type Approval Certificate
	EPLAN, WSCAD
Engineering Data	STEP
Product Change Notification	Release-Notes - Firmware
Software	Firmware UR20-2AI-SG-24-DIAG
User Documentation	MAN_U-REMOTE_DE
	MAN_U-REMOTE_EN

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