

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image











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2- or 4-wire connection; 16-bit resolution; 4 outputs
The analogue output module controls up to 4 analogue
actuators 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 an accuracy of
0.05% of the measurement-range end value. An actuator
with 2-, 3- or 4-wire technology can be connected to each
plug-in connector. The measurement range is defined
channel-by-channel using parameterisation. In addition,
each channel has its own status LED.
The outputs are supplied from the output current path

The outputs are supplied from the output current path (UOUT).

General ordering data

Version	Remote I/O module, IP20, Analog signals, Output, 4-channel, Current/Voltage
Order No.	<u>1315680000</u>
Туре	UR20-4AO-UI-16
GTIN (EAN)	4050118118803
Qty.	1 ST



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Technical data

Approvals

Approvals































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

Dimensions and weights

Depth	76 mm	Depth (inches)	2.9921 inch
Height	120 mm	Height (inches)	4.7244 inch
Width	11.5 mm	Width (inches)	0.4528 inch
Mounting dimension - height	128 mm	Net weight	87 g

Temperatures

Storage temperature	-40 °C +85 °C	Operating temperature	-20 °C60 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8

analogue outputs

Short-circuit-proof	Yes
load impedance voltage	> 1 k Ω (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	<600 Ω
Repeat accuracy	<1 mV eff.
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
Туре	1. U (05 V, 010 V, 15 V, 210 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Simultaneity factor	min. 0 %
	nominal 100 %
	max. 100 %
Number of analogue outputs	4
Module diagnosis	Yes
Individual channel diagnosis	No
Output variable	Voltage (05 V, 010 V, 15 V, 210 V, ±10 V, ±5 V), Current (020 mA or 420 mA)
Response time	1 ms / 4 channels
Output current as per application	min. 0 mA
	nominal 185 mA

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	max.	185 mA
Monotonicity	Yes	
Cross-talk between the channels in FSR	0.001 %	
Actuator connection	2-wire (automatic detection), 4-wire	
Actuator supply	min.	0 mA
	nominal	185 mA
	max.	185 mA
Max. error between T min. and T max. in FSR	1 220 %	
Substitute values	Yes	

Connection data

Wire cross-section, finely stranded, max. AWG 16 (AWG)		Wire cross-section, finely stranded, min (AWG)	. AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min. (AWG)	AWG 26
Type of connection	PUSH IN	Wire cross-section, solid, max.	1.5 mm ²
Wire cross-section, solid, min.	0.14 mm ²	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire connection cross section, finely stranded, min.	0.14 mm ²		

General 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	UL 94 flammability rating	V-0
Test voltage	500 V	Surge voltage category	II
Pollution severity	2	Rail	TS 35
Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2	Air humidity (transport)	10% to 95%, non- condensing 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	Air pressure (storage)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2
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
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27		

Power supply

Voltage supply	24 V DC +20 %/ -15 %, via the system bus	Current consumption from Isys, typ.	8 mA
Current consumption from IOUT (the respective power segment)	85 mA		

System data

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

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Technical data

	DeviceNet, POWERLINK, CC-Link, CC-Link IE TSN		
Parameter data	12 Byte	Diagnostic data	1 Bit
Classifications	<u> </u>		
ETIM 6.0	EC001596	ETIM 7.0	EC001596
ETIM 8.0	EC001596	ETIM 9.0	EC001596
ETIM 10.0	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
ECLASS 13.0	27-24-26-01	ECLASS 14.0	27-24-26-01
ECLASS 15.0	27-24-26-01		

Tender specification sheets

Long specification

Analogue output module 4AO-UI-16 4-channel analogue output module Connection system: PUSH IN Dimensions (HxWxD): 120 mm (with lever: 128 mm), 11.5 mm, 76 mm Module status: display via collective message, LED at the top of the module Channel status: indication directly at the contact point Weight: 83 g Module diagnosis: yes Individual channel diagnosis: no Operating temperature: -20°C - +60°C Process data: 8 bytes Parameter data: 12 bytes Diagnostic data: 1 bit Galvanic isolation: between field and system bus Supply voltage: 24 VDC +25% / -15% Internal current consumption: 8 mA Supply current consumption: 85 mA Accuracy: 0.05% FSR Resolution: 16 bits Response time: 1 ms for 4 channels Output parameters: voltage or current Internal resistance U: 100 $k\Omega$ Internal resistance I: 41.2 Ω Brand: Weidmüller Type: UR20-4AI-UI-16



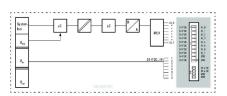
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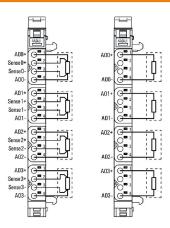
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Drawings

Block diagram

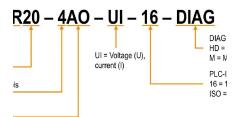


Connection diagram



Explanation of abbreviations

t modules





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Accessories

Accessories



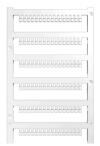
System accessory

Discover a wide range of accessories for your u-remote system - the ideal addition to make your applications even more efficient and flexible.

General ordering data

Туре	UR20-EBK-ACC	Version
Order No.	<u>1346610000</u>	End bracket, ,
GTIN (EAN)	4050118151596	
Qty.	5 ST	
Туре	UR20-SM-ACC	Version
Type Order No.	UR20-SM-ACC 1339920000	Version Cover, ,

Blank



General ordering data

Туре	PM 2.7/2.6 MC NE WS	Version
Order No.	<u>1323710000</u>	OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch
GTIN (EAN)	4050118126778	in mm (P): 3.50 Weidmueller, white
Qty.	960 ST	

Custom printing





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Accessories

General ordering data

Type	PM 2.7/2.6 MC SDR	Version
Order No.	1323700000	OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch
GTIN (EAN)	4050118126761	in mm (P): 3.50 Weidmueller, To customer specification
Qty.	192 ST	
Туре	DEK 5/8-11.5 MC SDR	Version
Type Order No.	DEK 5/8-11.5 MC SDR 1341610000	Version Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
• •	,	

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Туре	DEK 5/8-11.5 MC NE WS	Version
Order No.	1341630000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4050118145946	Weidmueller, white
Qty.	500 ST	

Aluminum



Aluminum has the second best electrical conductivity after copper. One advantage is low weight, an Miscellaneous is outstanding corrosion protection.

General ordering data

Туре	TS 35X7.5 2M/AL/BK	Version
Order No.	0330800000	Terminal rail, Accessories, Aluminium, untreated, Width: 2000 mm,
GTIN (EAN)	4008190100650	Height: 35 mm, Depth: 7.5 mm
Qty.	40 M	

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Accessories

Stainless steel



Stainless steel is a collective term for all types of steel (alloys) with a high degree of purity and corrosion resistance.

General ordering data

Ту	ре	TS 35X7.5 2M/CRN	Version
Or	der No.	<u>1747350000</u>	Terminal rail, Accessories, Stainless steel 1.4301, untreated, Width:
GT	IN (EAN)	4032248003372	2000 mm, Height: 35 mm, Depth: 7.5 mm
Qt	y.	40 M	

Steel



Steel DIN rails are the most widespread on the market. Among metal DIN rails, they have the lowest shortcircuit protection, similar to stainless steel.

General ordering data

	_	
Туре	TS 35X7.5 2M/ST/ZN	Version
Order No.	0383400000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,
GTIN (EAN)	4008190088026	Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm
Qty.	40 M	
Туре	TS 35X7.5/LL 2M/ST/ZN	Version
Order No.	0514500000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,
GTIN (EAN)	4008190046019	Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm
Qty.	40 M	
αιy.	10 101	
Туре	TS 35X7.5/LL 1M/ST/ZN	Version
		Version Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,
Туре	TS 35X7.5/LL 1M/ST/ZN	
Type Order No.	TS 35X7.5/LL 1M/ST/ZN 0514510000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,
Type Order No. GTIN (EAN)	TS 35X7.5/LL 1M/ST/ZN 0514510000 4008190116620	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,
Type Order No. GTIN (EAN) Oty.	TS 35X7.5/LL 1M/ST/ZN 0514510000 4008190116620 20 M	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated, Width: 1000 mm, Height: 35 mm, Depth: 7.5 mm
Type Order No. GTIN (EAN) Oty. Type	TS 35X7.5/LL 1M/ST/ZN 0514510000 4008190116620 20 M TS 35X7.5/LL 2M/ST/SZ	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated, Width: 1000 mm, Height: 35 mm, Depth: 7.5 mm Version

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Accessories

Crimping tools



Crimping tools for wire end ferrules, with and without plastic collars

- · Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

General ordering data

Type PZ 2.5 S
Order No. 2903690000
GTIN (EAN) 4099986027008

1 ST

Version

0.14mm², 2.5mm², Trapezoidal crimp

Basic modules

Qty.



General ordering data

 Type
 UR20-BM-SP
 Version

 Order No.
 1350930000
 Replacement part, , Flange-mounted housing

 GTIN (EAN)
 4050118402735

 Qty.
 5 ST

Electronic modules



General ordering data

1 ST

Qty.

 Type
 UR20-EM-1315680000-SP
 Version

 Order No.
 1347270000
 Replacement part

 GTIN (EAN)
 4050118248326

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Accessories

Plugkit



General ordering data

Type UR20-PK-1315680000-SP V Order No. <u>1484070000</u>

GTIN (EAN) 4050118293463

Qty. 5 ST

Version

Replacement part