

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 +/-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 ( $U_{\text{IN}}$ ).

Version	Remote I/O module, IP20, Analog signals, Input,
	8-channel
Order No.	<u>1315650000</u>
Туре	UR20-8AI-I-16-HD
GTIN (EAN)	4050118118834
Qty.	1 pc(s).
Replacement parts	<u>1350930000</u> <u>1559740000</u> <u>1347240000</u>



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## **Technical data**

Dim	ensions	and	weights
	GIISIUIIS	anu	WEIGHT

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
Operating temperature, min.	-20 °C	Operating temperature, max.	60 °C

#### analogue inputs

Accuracy	0.1% FSR	Conversion time	1 ms
Individual channel diagnosis		Input value	Current I (020 mA, 420
	No		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, finel	У	Wire connection cross section, finely	
stranded, max.	0.35 mm <sup>2</sup>	stranded, min.	0.14 mm <sup>2</sup>
Wire cross-section, finely stranded,	max.	Wire cross-section, finely stranded, mi	n.
(AWG)	AWG 22	(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	Air pressure (operation)	≥ 795 hPa (height ≤ 2000
	61131-2		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
Shock	15 g over 11 ms, half sinus wave, acc. to IEC	Surge voltage category	
	60068-2-27		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		

### **Power supply**

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

Creation date February 20, 2023 3:56:47 PM CET



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## Technical data

#### System data

E: 111	DDOGINGT IDT DDOGINGT		
Field bus protocol	PROFINET IRT, PROFINET RT, PROFIBUS DP-V1, EtherCAT, Modbus/TCP, EtherNet/IP, CANopen, DeviceNet, POWERLINK,	Galvanic isolation	500 V DC between the
	CC-Link, CC-Link IE TSN		current paths
Interface	u-remote system bus	Module type	Analogue input module
Process data	16 Byte	Transmission speed of system b	ous, 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

#### **Environmental Product Compliance**

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

#### 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	



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## **Technical data**

#### **Downloads**

DEMKO15ATEX1525X
CCC certificate
UKCA Declaration of Conformity - EN
CE Declaration of Conformity - DE
CAD data – STEP
Compatibility information – Combinability of UR20
WSCAD, Zuken E3.S
Release-Notes - Firmware
Firmware – Current firmware UR20-4AI-UI
Firmware – Archive firmware UR20-4AI-UI
MAN_U-REMOTE_DE
MAN_U-REMOTE_EN
Catalogues in PDF-format



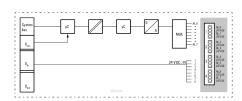
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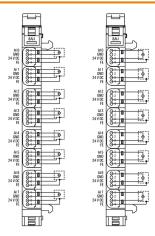
www.weidmueller.com

## **Drawings**

#### **Block diagram**

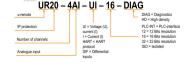


#### **Connection diagram**



#### **Explanation of abbreviations**

#### Analogue input modules





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## **Accessories**

#### **Accessories**



#### Potential-distribution modules; system accessory

A wide range of accessory modules is available for individual requirements of machine and plant engineering. Various potential distribution modules are available for the supply of sensors with 2- to 4-wire connection technology directly from the remote I/O system. These offer 16 "PUSH IN" potential points and supply your application with any auxiliary potential available. An empty module, where the system bus and voltage supply are looped through, allows you to plan expansion slots in a system and to start these up without any interruptions if required.

Туре	UR20-SM-ACC	Version		
Order No.	1339920000	Cover, ,		
GTIN (EAN)	4050118144727			
Qty.	20 pc(s).			
Туре	PWZ-UR20-HD	Version		
Order No.	<u>1525820000</u>	Pressing tools		
GTIN (EAN)	4050118347067			
Qty.	1 pc(s).			
Туре	UR20-EBK-ACC	Version		
Order No.	1346610000	End bracket, ,		
GTIN (EAN)	4050118151596			
Qty.	5 pc(s).			
Туре	UR20-PG0.35	Version		
Order No.	1469340000	Connecting plug		
GTIN (EAN)	4050118275339			
Qty.	8 pc(s).			
Туре	KOSM BHZ5.00	Version	Product data	Packaging
Order No.	1483050000	PCB plug-in connector, Accessories, Coding element, orange		Box
GTIN (EAN)	4050118292039			
Qty.	100 pc(s).			
	_			



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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**

Type TS 35X7.5 2M/CRN Order No. 1747350000

GTIN (EAN) 4032248003372

Qty. 2 m

Versior

Rail, TS 35, TS 35 x 7.5, without slot, Stainless steel, rust-proof,

Stainless steel 1.4301, untreated

#### **Blank**

Qty.



#### **General ordering data**

Type PM 2.7/2.6 MC NE WS Version

Order No. <u>1323710000</u> GTIN (EAN) 4050118126778

960 pc(s).

Version

OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in

mm (P): 3.50 Weidmueller, white



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## **Accessories**

#### **Custom printing**



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**

100 pc(s).

ype DEK 5/8-11.5 MC SDR

Order No. <u>1341610000</u> Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00

GTIN (EAN) 4050118146059 Weidmueller, To customer specification

#### **Custom printing**

Qty.



#### **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 in

GTIN (EAN) 4050118126761 mm (P): 3.50 Weidmueller, To customer specification

GTIN (EAN) 40501181 Qty. 192 pc(s).



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### **Accessories**

#### **Aluminum**



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

#### General ordering data

Type TS 35X7.5 2M/AL/BK Order No. 0330800000

GTIN (EAN) 4008190100650

Qty. 2 n

Version

Rail, TS 35, TS 35 x 7.5, without slot, Aluminium, untreated

#### **Tools**



- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- A long-lasting, reliable tool thanks to its sturdy design
- Integrated cutting function

#### **General ordering data**

Type MULTI-STRIPAX 6-16
Order No. 9202210000
GTIN (EAN) 4032248486144
Oty. 1 pc(s).

Version

Tools, Stripping and cutting tool



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### **Accessories**

#### **Tools**



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- · Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- · Long service life
- Optimised ergonomic design

#### **General ordering data**

Туре	STRIPAX ULTIMATE	Version
Order No.	1468880000	Tools, Stripping and cutting tool
GTIN (EAN)	4050118274158	
Qty.	1 pc(s).	

#### 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.

Туре	TS 35X7.5/LL 2M/ST/ZN	Version
Order No.	0514500000	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
GTIN (EAN)	4008190046019	passivated
Qty.	2 m	
Туре	TS 35X7.5/LL 1M/ST/ZN	Version
Order No.	0514510000	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
GTIN (EAN)	4008190116620	passivated
Qty.	1 m	
Туре	TO 05 V 7 5 (LL 004 (CT (C7	
1,400	TS 35X7.5/LL 2M/ST/SZ	Version
Order No.	7915060000	Version Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
	, , ,	



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## **Accessories**

Type TS 35X7.5 2M/ST/ZN
Order No. 0383400000
GTIN (EAN) 4008190088026

Version

Rail, TS 35, TS 35 x 7.5, without slot, Steel, galvanic zinc plated and

passivated

#### **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**

Type DEK 5/8-11.5 MC NE WS
Order No. 1341630000
GTIN (EAN) 4050118145946
Oty. 500 pc(s).

Version

Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00

Weidmueller, white



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## Replacement parts

#### **Electronic modules**



#### **General ordering data**

Type UR20-EM-1315650000-SP

Order No. <u>1347240000</u>

GTIN (EAN) 4050118151879

Qty. 1 pc(s).

Version

Replacement part

#### **Plugkit**



#### **General ordering data**

Type UR20-PK-1315650000-SP Order No. 1559740000

GTIN (EAN) 4050118364576

Ωty. 5 pc(s).

Version

Replacement part



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## Replacement parts

#### **Basic modules**



Туре	UR20-BM-SP	Version	Packaging
Order No.	<u>1350930000</u>	Replacement part, , Flange-mounted housing	Cardboard
GTIN (EAN)	4050118402735		box
Qty.	5 pc(s).		