

## Remote-I/O - u-remote UR20-16DO-P

**Weidmüller Interface GmbH & Co. KG**  
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### Digital output modules P- or N-switching; short-circuit-proof; up to 3-wire + FE

Digital output modules are available in the following variants: 4 DO, 8 DO with 2- and 3-wire technology, 16 DO with or without PLC interface connection. They are mainly used for the incorporation of decentralised actuators. All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. As with the digital input modules, frequencies of up to 1 kHz are possible. Protection of the outputs ensures maximum system safety. This consists of an automatic restart following a short-circuit. Clearly visible LEDs signal the status of the entire module as well as the status of individual channels.

In addition to the standard applications of the digital output modules, the range also includes special variants such as the 4RO-SSR module for rapidly switching applications. Fitted with solid state technology, 0.5 A is available here to each output. Furthermore, there is also the 4RO-CO relay module for power-intensive applications. It is equipped with four CO contacts, optimised for a switching voltage of 255 V UC and designed for a switching current of 5 A.

The module electronics supply the connected actuators from the output current path ( $U_{OUT}$ ).

### General ordering data

Type	UR20-16DO-P
Order No.	<a href="#">1315250000</a>
Version	Remote I/O module, IP20, Digital signals, Output, 16-channel
GTIN (EAN)	4050118118537

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**Technical data****Dimensions and weights**

Length	76 mm	Length (inches)	2.992 inch
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	83 g

**Temperatures**

Operating temperature	-20 °C ... +60 °C	Storage temperature	-40 °C ... +85 °C
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**digital outputs**

Actuator connection	Single conductor	Feedback-free	Yes
Individual channel diagnosis	No	Inductive load (DC13)	0.2 Hz
Lamp load (12 W)	1 kHz	Max. output current per channel	500 mA
Max. output current per module	8,000 mA	Max. response time, high	100 % FSR max.
Max. response time, low	250 % FSR max.	Module diagnosis	Yes
Number	16	Resistive load (min. 47 Ω)	1 kHz
Response time of the protective circuit (current limiting)	< 100µs	Short-circuit-proof	Yes (thermal cut-out)
Switch-off energy (inductive)	< 150 mJ / channel	Type	Ohmic, Inductive, Lamp load

**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		

**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 über 11 ms, halbe Sinuswelle, gem. 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

## Data sheet

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## Technical data

### Power supply

Current consumption from $I_{IN}$ (power segment of the field bus coupler), typ.	8 mA	Current consumption from $I_{OUT}$ (the respective power segment)	20 mA + load
Supply voltage	24 V DC +20%/-15%, via the system bus		

### System data

Diagnostic data	1 Stück	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	Digital output module	Possible connection	1 conductor
Process data	2 % FSR	Transmission speed of system bus, max.	48 dpi

### Classifications

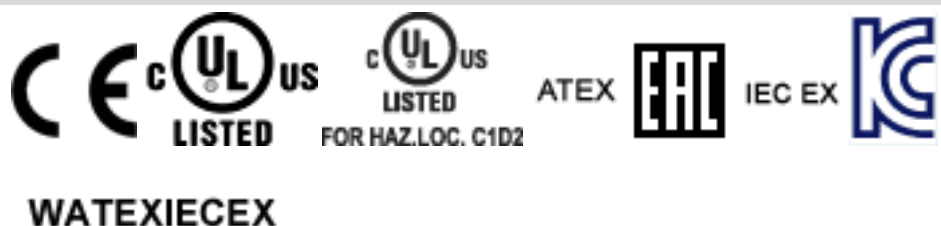
ETIM 4.0	EC001599	ETIM 5.0	EC001599
ETIM 6.0	EC001597	eClass 6.2	27-24-26-04
eClass 7.1	27-24-26-04	eClass 8.1	27-24-26-04
eClass 9.0	27-24-26-04	eClass 9.1	27-24-26-02

### Product information

Descriptive text ordering data	For this and additional technical data, please refer to the manual available at <a href="http://www.weidmueller.de">www.weidmueller.de</a> or scan the QR code below.
Descriptive text accessories	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.

### Approvals

Approvals



ROHS	Conform
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### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT U_REMOTE 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
User Documentation	<a href="#">Manual</a>

Creation date August 21, 2017 5:46:39 AM CEST

Catalogue status 11.08.2017 / We reserve the right to make technical changes.

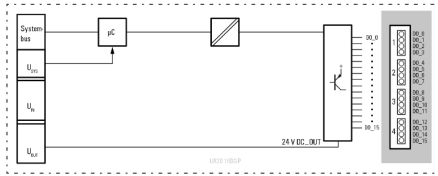
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**Drawings**

**Block diagram**



**Connection diagram**

