

**Automation Products - u-remote IP20  
UR20-FBC-MOD-TCP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com

**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-FBC-MOD-TCP                                        |
| Order No.  | <a href="#">1334930000</a>                              |
| Version    | Remote I/O fieldbus coupler, IP20, Ethernet, Modbus/TCP |
| GTIN (EAN) | 4050118138153                                           |

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## Technical data

### Dimensions and weights

|                             |        |                 |            |
|-----------------------------|--------|-----------------|------------|
| Width                       | 52 mm  | Width (inches)  | 2.047 inch |
| Height                      | 120 mm | Height (inches) | 4.724 inch |
| Depth                       | 76 mm  | Depth (inches)  | 2.992 inch |
| Mounting dimension - height | 128 mm | Weight          | 247 g      |
| Net weight                  | 319 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 |

### 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 |

### Power supply

|                                                                                         |                                       |                                                             |                   |
|-----------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------|-------------------|
| Current consumption from I <sub>IN</sub> (power segment of the field bus coupler), typ. | 112 mA                                | Feed current for I <sub>IN</sub> (input current path), max. | 10 A              |
| Feed current for I <sub>OUT</sub> (output current path), max.                           | 10 A                                  | Feed current for the system, max.                           | 4 A               |
| Supply voltage                                                                          | 24 V DC +20%/-15%, via the system bus | Supply voltage for outputs                                  | 24 V DC +20%/-15% |
| Supply voltage system and inputs                                                        | 24 V DC +20%/-15%                     |                                                             |                   |

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## Technical data

### System data

|                         |                                   |                                        |                             |
|-------------------------|-----------------------------------|----------------------------------------|-----------------------------|
| Configuration interface | Micro USB 2.0                     | Connection type                        | 2 x RJ45 plug-in connectors |
| Diagnostic data         | 1,024 Byte                        | Field bus protocol                     | Modbus/TCP                  |
| Galvanic isolation      | Yes, between field and system bus | Interface                              | u-remote system bus         |
| Module type             | Bus coupler                       | Parameter data                         | 1,024 Byte                  |
| Process data            | 8 kByte                           | Transmission speed of system bus, max. | 48 Mbit/s                   |
| max. number of modules  | 64                                |                                        |                             |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 4.0   | EC001599    | ETIM 5.0   | EC001599    |
| ETIM 6.0   | EC001603    | eClass 6.2 | 27-24-26-10 |
| eClass 7.1 | 27-24-26-10 | eClass 8.1 | 27-24-26-10 |
| eClass 9.0 | 27-24-26-10 | eClass 9.1 | 27-24-26-08 |

### Product information

|                                |                                                                     |
|--------------------------------|---------------------------------------------------------------------|
| Descriptive text ordering data | A termination kit (UR20-EBK-ACC) is included in the coupler package |
| Descriptive text accessories   | 1 roll = 1000 label = 1 Qty.<br>1 sheet = 60 label = 1 Qty.         |

### Approvals

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

### Downloads

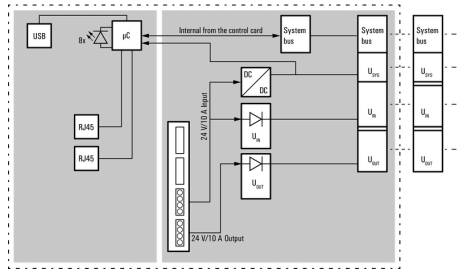
|                                             |                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                             |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                 |
| Product change notification                 | <a href="#">FBC_MOD_Release-Notes_1334930000</a>                                                                                                     |
| Software                                    | <a href="#">Firmware Modbus Coupler ver. 02.03.00 (1334930000)</a><br><a href="#">Firmware Modbus Coupler ver. 02.03.00 (2476450000)</a>             |
| User Documentation                          | <a href="#">MAN_U-REMOTE_DE</a><br><a href="#">MAN_U-REMOTE_EN</a><br><a href="#">MAN_UR20_WEBSERVER_DE</a><br><a href="#">MAN_UR20_WEBSERVER_EN</a> |

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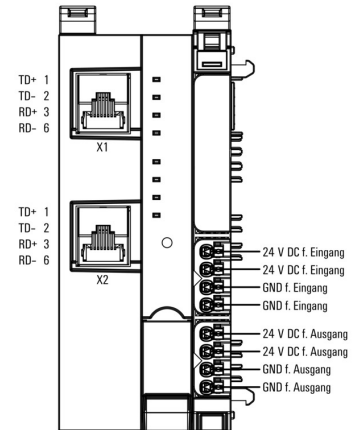
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## Drawings

### Block diagram



### Connection diagram



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## Accessories

### Neutral



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

### General ordering data

| Type                     | Order No.                  | Version                                                                            | GTIN (EAN)    | Qty.       |
|--------------------------|----------------------------|------------------------------------------------------------------------------------|---------------|------------|
| DEK 5/8-11.5<br>MC NE WS | <a href="#">1341630000</a> | Dekafix, Terminal marker,<br>5 x 8 mm, Pitch in mm (P):<br>8.00 Weidmueller, White | 4050118145946 | 500 pc(s). |

### Custom printing



Weidmüller has established new market standards with its MultiCard product line. This system is being continually extended with over 200 variants and by consistently extending the portfolio.

### General ordering data

| Type                 | Order No.                  | Version                                                                                                 | GTIN (EAN)    | Qty.       |
|----------------------|----------------------------|---------------------------------------------------------------------------------------------------------|---------------|------------|
| PM 2.7/2.6<br>MC SDR | <a href="#">1323700000</a> | PM, Pusher markers, 2.7<br>x 2.6 mm, Pitch in mm<br>(P): 3.50 Weidmueller, To<br>customer specification | 4050118126761 | 192 pc(s). |

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## Accessories

### USB cable - USB A - USB Micro

Assembled IE cables



### General ordering data

| Type                | Order No.                  | Version                                 | GTIN (EAN)    | Qty.     |
|---------------------|----------------------------|-----------------------------------------|---------------|----------|
| IE-USB-A-MICRO-1.8M | <a href="#">1487980000</a> | USB cable, USB A, USB Micro, PVC, 1.8 m | 4050118298451 | 1 pc(s). |

### Custom printing



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- 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

### General ordering data

| Type                | Order No.                  | Version                                                                                          | GTIN (EAN)    | Qty.       |
|---------------------|----------------------------|--------------------------------------------------------------------------------------------------|---------------|------------|
| DEK 5/8-11.5 MC SDR | <a href="#">1341610000</a> | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification | 4050118146059 | 100 pc(s). |

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## Accessories

### Neutral



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### General ordering data

| Type       | Order No.                  | Version                   | GTIN (EAN)    | Qty.       |
|------------|----------------------------|---------------------------|---------------|------------|
| PM 2.7/2.6 | <a href="#">1323710000</a> | PM, Pusher markers, 2.7 x | 4050118126778 | 960 pc(s). |
| MC NE WS   |                            | 2.6 mm, Pitch in mm (P):  |               |            |
|            |                            | 3.50 Weidmueller, White   |               |            |

### 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.

### General ordering data

| Type         | Order No.                  | Version        | GTIN (EAN)    |
|--------------|----------------------------|----------------|---------------|
| UR20-SM-ACC  | <a href="#">1339920000</a> | Cover, ,       | 4050118144727 |
| UR20-EBK-ACC | <a href="#">1346610000</a> | End bracket, , | 4050118151596 |