

## UR20-FBC-MOD-TCP-V2

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

[www.weidmueller.com](http://www.weidmueller.com)



**ModbusTCP**



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, and 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 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.

Our products boost the availability of your machines and systems, and ensure smooth processes, from planning to operation.

u-remote stands for “More Performance.” Simplified.

### General ordering data

|            |   |
|------------|---|
| Version    | Remote I/O fieldbus coupler, IP20, Ethernet, Modbus/TCP |
| Order No.  | <a href="#">2476450000</a>                              |
| Type       | UR20-FBC-MOD-TCP-V2                                     |
| GTIN (EAN) | 4050118487367   |
| Qty.       | 1 items   |

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Technical data

Approvals

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| 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                       | 52 mm  | Width (inches)  | 2.0472 inch |
| Mounting dimension - height | 128 mm | Net weight      | 223 g       |

Temperatures

|                     |                   |                       |                |
|---------------------|-------------------|-----------------------|----------------|
| Storage temperature | -40 °C ... +85 °C | Operating temperature | -20 °C...60 °C |
|---------------------|-------------------|-----------------------|----------------|

Environmental Product Compliance

|                                      |   |
|--------------------------------------|---|
| RoHS Compliance Status               | Compliant with exemption  |
| RoHS Exemption (if applicable/known) | 7a, 7cI   |
| REACH SVHC                           | Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1 |
| SCIP                                 | 98e19a7e-033b-4e68-93e3-c47b30de875e                                  |

Connection data

|  |                      |  |                     |
|--|----------------------|--|---------------------|
| Wire cross-section, finely stranded, max. (AWG)      | AWG 16               | 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 <sup>2</sup> |
| Wire cross-section, solid, min.                      | 0.14 mm <sup>2</sup> | 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> |  |                     |

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  |

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|                          |  |                          |  |
|--------------------------|--|--------------------------|--|
| Pollution severity       | 2  | Mounting 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

|  |  |                                     |                      |
|--|--|-------------------------------------|----------------------|
| Supply voltage                                   | 24 V DC +20 %/ -15 %, via the system bus | Feed current for the system, max.   | 4 A                  |
| Feed current for IIN (input current path), max.  | 10 A                                     | Current consumption from Isys, typ. | 112 mA               |
| Supply voltage for outputs                       | 24 V DC +20 %/ -15 %                     | Supply voltage system and inputs    | 24 V DC +20 %/ -15 % |
| Feed current for IOU (output current path), max. | 10 A                                     |                                     |                      |

### System data

|                                      |   |  |                     |
|--------------------------------------|---|--|---------------------|
| Module type                          | Bus coupler                                     | Interface                              | u-remote system bus |
| Fieldbus interface                   | Full / Half Duplex, Auto MDI/X, Autonegotiation | Process data                           | 1 kByte             |
| max. number of modules               | 64  | Configuration interface                | Micro USB 2.0       |
| Connection type                      | 2x RJ45 plug-in connectors                      | Field bus protocol                     | Modbus/TCP          |
| Transmission rate of field bus, max. | 100 Mbit/s                                      | Transmission speed of system bus, max. | 48 Mbit/s           |
| Parameter data                       | 1024 Byte                                       | Diagnostic data                        | 1024 Byte           |

### Important note

Product information      The matching end brackets are included with the coupler.

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001603    | ETIM 9.0    | EC001603    |
| ETIM 10.0   | EC001603    | ECLASS 14.0 | 27-24-26-07 |
| ECLASS 15.0 | 27-24-26-07 |             |             |

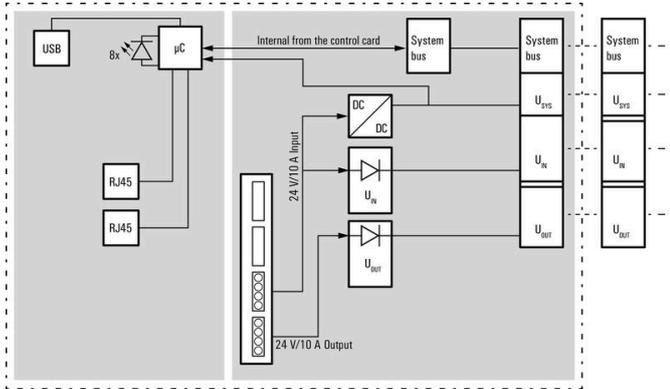
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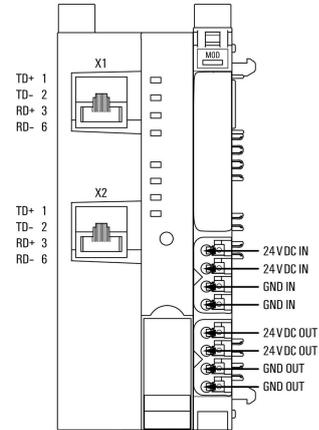
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Drawings

**Block diagram, Similar to illustration**

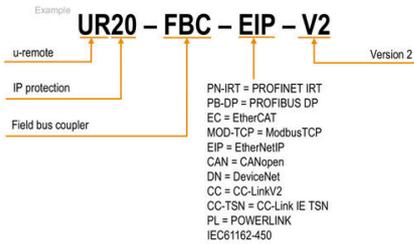


**Connection diagram**



**Explanation of abbreviations**

**Field bus coupler**



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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

|            |                            |                |  |
|------------|----------------------------|----------------|--|
| Type       | UR20-EBK-ACC               | Version        |  |
| Order No.  | <a href="#">1346610000</a> | End bracket, , |  |
| GTIN (EAN) | 4050118151596              |                |  |
| Qty.       | 5 ST                       |                |  |

|            |                            |          |  |
|------------|----------------------------|----------|--|
| Type       | UR20-SM-ACC                | Version  |  |
| Order No.  | <a href="#">1339920000</a> | Cover, , |  |
| GTIN (EAN) | 4050118144727              |          |  |
| Qty.       | 20 ST                      |          |  |

### Blank



### General ordering data

|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | PM 2.7/2.6 MC NE WS        | Version  |  |
| Order No.  | <a href="#">1323710000</a> | 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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|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | PM 2.7/2.6 MC SDR          | Version  |  |
| Order No.  | <a href="#">1323700000</a> | 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                     |  |  |

### 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      | Version   |  |
| Order No.  | <a href="#">1341630000</a> | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |  |
| GTIN (EAN) | 4050118145946              | Weidmueller, white  |  |
| Qty.       | 500 ST                     |   |  |

### Custom printing



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### General ordering data

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

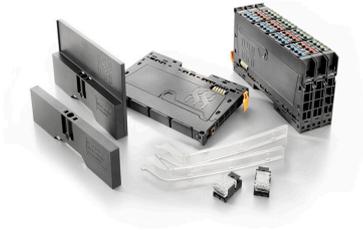
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|            |                            |         |   |
|------------|----------------------------|---------|---|
| Type       | IE-USB-A-MICRO-1.8M        | Version |   |
| Order No.  | <a href="#">1487980000</a> | Version | USB cable, USB A, USB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

## 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                   | Version |  |
| Order No.  | <a href="#">2903690000</a> | Version | 0.14mm <sup>2</sup> , 2.5mm <sup>2</sup> , Trapezoidal crimp |
| GTIN (EAN) | 4099986027008              |         |  |
| Qty.       | 1 ST                       |         |  |

## Plugkit



## General ordering data

|            |                            |         |                  |
|------------|----------------------------|---------|------------------|
| Type       | UR20-PK-2476450000-SP      | Version |                  |
| Order No.  | <a href="#">2485280000</a> | Version | Replacement part |
| GTIN (EAN) | 4050118496031              |         |                  |
| Qty.       | 5 ST                       |         |                  |