

**UR20-FBC-MOD-TCP-V2**

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

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

**Product image, Similar to illustration**

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**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**

|            |                                                         |
|------------|---------------------------------------------------------|
| 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 pc(s).                                                |

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## Technical data

## Dimensions and weights

|                             |        |                 |            |
|-----------------------------|--------|-----------------|------------|
| Depth                       | 76 mm  | Depth (inches)  | 2.992 inch |
| Height                      | 120 mm | Height (inches) | 4.724 inch |
| Mounting dimension - height | 128 mm | Net weight      | 223 g      |
| Width                       | 52 mm  | Width (inches)  | 2.047 inch |

## Temperatures

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

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## 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                                                                                                                    |              |         |
| Rail                      | TS 35                                                                                                                |              |         |
| Restricted area           | Type of restricted area                                                                                              | thermal      |         |
|                           | Positive expansion                                                                                                   | X coordinate | 83.5 mm |
|                           |                                                                                                                      | Z coordinate | 85 mm   |
|                           |                                                                                                                      | Y coordinate | 160 mm  |
|                           | Negative expansion                                                                                                   | X coordinate | -28 mm  |
|                           |                                                                                                                      | Z coordinate | 0 mm    |
|                           |                                                                                                                      | Y coordinate | -40 mm  |
| Shock                     | 15 g over 11 ms, half sinus wave, acc. to 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>N</sub> (power segment of the field bus coupler), typ. | 112 mA  |        |  |
| Current consumption from I <sub>N</sub> (power segment of the fieldbus coupler), typ.  | max.    | 112 mA |  |
|                                                                                        | nominal | 112 mA |  |
|                                                                                        | min.    | 112 mA |  |

Creation date March 27, 2021 1:16:12 AM CET

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|                                                         |                                          |           |
|---------------------------------------------------------|------------------------------------------|-----------|
| Feed current for $I_{IN}$ (input current path)          | max.                                     | 10,000 mA |
|                                                         | nominal                                  | 10,000 mA |
|                                                         | min.                                     | 10,000 mA |
| Feed current for $I_{IN}$ (input current path) , max.   | 10 A                                     |           |
| Feed current for $I_{OUT}$ (output current path)        | min.                                     | 10,000 mA |
|                                                         | max.                                     | 10,000 mA |
|                                                         | nominal                                  | 10,000 mA |
| Feed current for $I_{OUT}$ (output current path) , max. | 10 A                                     |           |
| Feed current for the system, max.                       | 4 A                                      |           |
| Supply voltage for outputs                              | 24 V DC +20 %/ -15 %                     |           |
| Supply voltage system and inputs                        | 24 V DC +20 %/ -15 %                     |           |
| Voltage supply                                          | 24 V DC +20 %/ -15 %, via the system bus |           |

## 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                        |
| Fieldbus interface                   | Full / Half Duplex, Auto MDI/X, Autonegotiation | Galvanic isolation                     | Yes, between field and system bus |
| Interface                            | u-remote system bus                             | Module type                            | Bus coupler                       |
| Parameter data                       | 1,024 Byte                                      | Process data                           | 1 kByte                           |
| Transmission rate of field bus, max. | 100 Mbit/s                                      | Transmission speed of system bus, max. | 48 Mbit/s                         |
| max. number of modules               | 64                                              |                                        |                                   |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001603    | ETIM 7.0    | EC001603    |
| ECLASS 9.0  | 27-24-26-07 | ECLASS 9.1  | 27-24-26-07 |
| ECLASS 10.0 | 27-24-26-07 | ECLASS 11.0 | 27-24-26-07 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

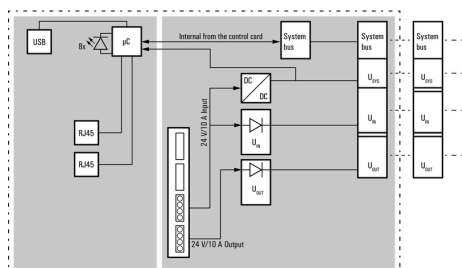
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a><br><a href="#">Compass safe distance certificate</a><br><a href="#">Lloyds Register certificate</a><br><a href="#">DNV/GL certificate</a><br><a href="#">ABS certificate</a><br><a href="#">RINA certificate</a><br><a href="#">Bureau Veritas - Type Approval Certificate</a><br><a href="#">PRS (Polish Register of Shipping)</a><br><a href="#">NIPPON KAIJI KYOKAI Certificate</a> |
| Engineering Data                            | <a href="#">STEP</a><br><a href="#">Schneider - UnityProS</a>                                                                                                                                                                                                                                                                                                                                                                    |
| Product Change Notification                 | <a href="#">Release-Notes - Firmware and Supported modules list</a>                                                                                                                                                                                                                                                                                                                                                              |
| Software                                    | <a href="#">WI-Manager, DTM-Library for online installation V.1.2.2</a><br><a href="#">Language Pack UR20_FBC</a><br><a href="#">Archiv Firmware files Modbus V2 coupler</a><br><a href="#">Current Firmware file Modbus V2 coupler</a><br><a href="#">USB driver</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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**Drawings**
**Block diagram**

**Connection diagram**
