

UR20-FBC-MOD-TCP-V2

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

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. | 2476450000 |
| Type | UR20-FBC-MOD-TCP-V2 |
| GTIN (EAN) | 4050118487367 |
| Qty. | 1 pc(s). |
| Replacement parts | 2485280000 |

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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 |
| Width | 52 mm | Width (inches) | 2.047 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

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

Connection data

| | | | |
|--|----------------------|--|----------------------|
| Type of connection | PUSH IN | Wire connection cross section, finely stranded, max. | 1.5 mm ² |
| Wire connection cross section, finely stranded, min. | 0.14 mm ² | 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 ² |
| Wire cross-section, solid, max. (AWG) | AWG 16 | Wire cross-section, solid, min. | 0.14 mm ² |
| 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 | Negative expansion | Y coordinate | -40 mm |
| | | X coordinate | -28 mm |
| | | Z coordinate | 0 mm |
| | Positive expansion | Z coordinate | 85 mm |
| | | Y coordinate | 160 mm |
| X coordinate | | 83.5 mm | |
| Type of restricted area | thermal | | |
| 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 _{sys} , typ. | 112 mA | | |
| Feed current for I _{IN} (input current path) | max. | 10,000 mA | |
| | nominal | 10,000 mA | |
| | min. | 10,000 mA | |

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Feed current for I_{IN} (input current path), 10 A max.

| | | |
|--|---------|-----------|
| Feed current for I_{OUT} (output current path) | nominal | 10,000 mA |
| | max. | 10,000 mA |
| | min. | 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 |
| ETIM 8.0 | 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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Technical data

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of Conformity Compass safe distance certificate Lloyds Register certificate DNV/GL certificate ABS certificate RINA certificate Bureau Veritas - Type Approval Certificate PRS (Polish Register of Shipping) NIPPON KAIJI KYOKAI Certificate |
| Engineering Data | CAD data – STEP Compatibility information – Combinability of UR20 Application notes – Modbus/TCP master implementation in Node-RED - u-create web / Node-RED Quick start guide – UR20-FBC-MOD/ u-remote Quick Start Guide for Modbus- Understanding Coils and Register |
| Product Change Notification | Release-Notes - Firmware and Supported modules list |
| Software | Software unit – WI-Manager, DTM-Library for online installation V.1.2.2 Firmware – Application Note Firmwareupdate UR20 coupler_EN Firmware – Application Note Firmwareupdate UR20 coupler_DE Library – Language Pack UR20_FBC Firmware – Archiv Firmware files Modbus V2 coupler Firmware – Current Firmware file Modbus V2 coupler Driver – USB driver |
| User Documentation | MAN U-REMOTE_DE MAN U-REMOTE_EN MAN UR20 WEBSERVER_DE MAN UR20 WEBSERVER_EN 211018_Security_Advisory_Remote_IO_fieldbus_couplers_IP20_affected_by_INFRA_HALT_vulnerabilities |
| Catalogues | Catalogues in PDF-format |

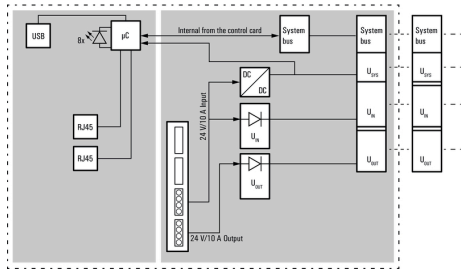
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Drawings

Block diagram, Similar to illustration



Connection diagram

