

Simple integration of devices with a serial interface

u-remote keeps your automation solutions flexible

In the field of industrial automation, there are still a large number of peripheral devices being used that communicate via serial point-to-point connections. Examples of these kinds of devices include handheld scanners or printers.

Connecting these devices to a fieldbus-based or Ethernet-based automation architecture requires the use of interfaces that transfer serial signals to bus protocols and vice versa. u-remote makes it really simple to integrate serially communicating devices into your automation architecture.

The universal communication module allows for the use of either an RS232, an RS485 or an RS422 interface, which helps simplify your system configuration. A 5-V power supply and a 24-V power supply are part of the module and do not need to get considered as a separate function.

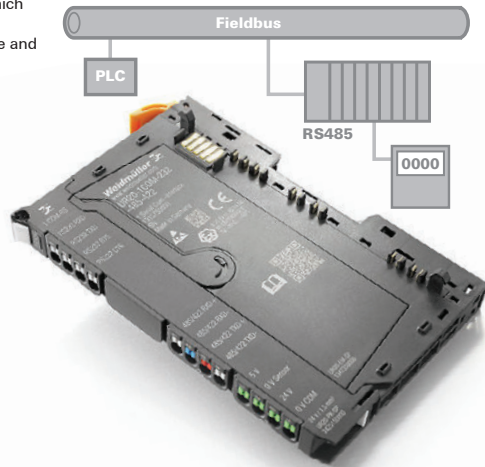
Option of retroactive adaptation

The integration of three standard interfaces with a parametrisable transfer rate allows you to respond to sudden changes in the device fleet. This is a useful feature if, for example, you are still unsure during the planning stage as to whether you are actually going to use any peripheral devices.

Simple diagnostics without the need for expensive software

LEDs on each channel and status indicators on the modules show whether the data transfer is working correctly or whether an error is present. This feature is a guarantee for reliable system start-up and rapid plant maintenance.

The new communication module from the u-remote range allows for the flexible integration of devices with serial interfaces into a modern industrial automation architecture



Your special advantages:

More flexibility, less complexity

The u-remote serial communication module combines three different interface types over a width of just 11.5 mm: RS232, RS485 and RS422. This enables different devices to be connected to the fieldbus or to the Ethernet network via just one module type. This makes planning work easier, reduces the amount of required space and also cuts costs.

Position special remote I/O functions decentrally within the field

FieldPower® enclosures bring the benefits of u-remote into the field

Reduction of project throughput times, minimisation of downtimes and promotion of ever more flexible production systems: all this leads to increased modularisation of machines and systems today.

The new FieldPower® IP54 enclosures for u-remote reliably bring the varied functionality of u-remote into the field. This gives you access to another module to increase the flexibility of your automation architecture.

In modern mechatronics, machine functions are becoming increasingly modular and developed beyond the boundaries of different trades. Combining the modular FieldPower® and u-remote system solutions allows even more individual solutions to be achieved.

Supports quick and error-free installation in the field

The folding cable seal in combination with slit cable-seal inserts allows the use of pre-assembled M8 and M12 conductors in combination with u-remote connectors or complete connecting lines for whole modules.



In order to implement conveyor systems in intra-logistics and production logistics in line with quality, deadline and cost specifications, pre-assembled field boxes are required for the individual machine functions, which are type-tested and easy to combine and handle.



Same components - reduced stock

The same IP20 I/O modules can be used which are already in use in other parts of the plant.

Your special advantages:

Perfect-fit remote I/O configuration in IP54

All functions available via u-remote can be arranged protected from dust and water in the new FieldPower® IP54 enclosure and installed decentrally in the field.

1COM-232-485-422

- Interface for RS232, RS485 and RS422 peripherals
- Adjustable transfer rate
- Galvanic isolation of the signals in the module
- Separate power supply for external peripheral to the module

UR20-1COM-232-485-422



Technical data

| System data | |
|--|--|
| Interface | u-remote system bus |
| Transmission rate of system bus | 48 Mbps |
| Galvanic isolation | DC 500 V between current paths |
| Supply | |
| Voltage supply | 24 V DC +20 % / -15 % via the system bus |
| Current consumption (I _N in power segment of field bus coupler), typ. | 8 mA |
| Current consumption (I _N in the respective power segment) | 50 mA + load |
| RS Interface | |
| Number | 1 |
| Connection | 1x RS232 / 1x RS485/422 |
| Transmission rate | configurable, 300... 115200 Bit/s |
| Supply voltage | 5 V / 24 V |
| Output current Supply voltage, max. | 0.5 A |
| RS232 standards | DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28 |
| RS485/422 standards | DIN 66259 Part 1 and 3, EIA-RS422/485, CCITT V.11 |
| Short-circuit-proof | yes |
| Module diagnosis | yes |
| Individual channel diagnosis | yes |
| General data | |
| Weight | 92 g |
| Dimensions (H/W/D) | 120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm |

Ordering data

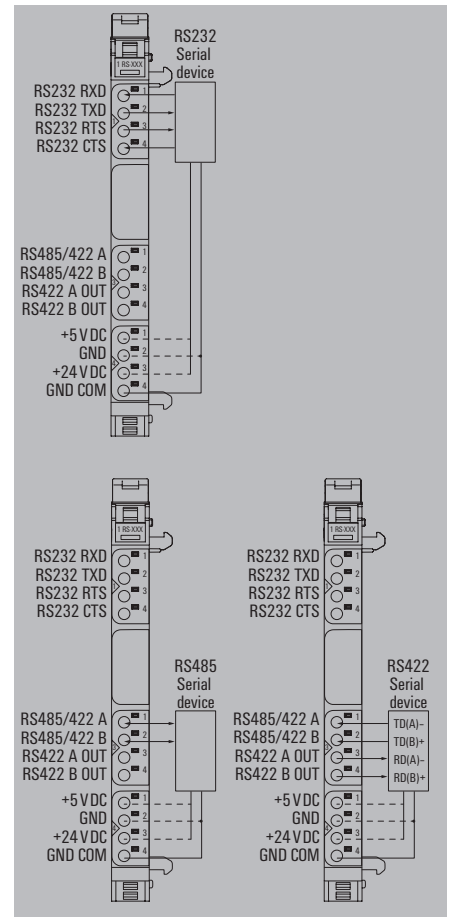
| Module variants | |
|--|--|
| RS232/RS485/RS422 communication module | |

| Type | Qty. | Order No. |
|-----------------------|------|------------|
| UR20-1COM-232-485-422 | 1 | 1315750000 |

Accessories

| Accessories | |
|--|--|
| Coding elements | KDSM BHZ5.00 100 1483050000 |
| Termination kit | UR20-EBK-ACC 5 1346610000 |
| Swivel marker | UR20-SM-ACC 20 1339920000 |
| Connection marker for pusher custom printing | PM 2.7/2.6 MC SDR 192 1323700000 |
| Connection marker for pusher neutral | PM 2.7/2.6 MC NE WS 960 1323710000 |
| Module marker for custom printing | DEK 5/8-11.5 MC SDR 100 1341610000 |
| Module marker for neutral | DEK 5/8-11.5 MC NE WS 500 1341630000 |
| Thermotransfer version (Material: Polyester) | THM UR20 GE * ¹⁾ 1 1429910000 |
| Thermotransfer version (Material: Polyester) | THM UR20 WS * ¹⁾ 1 1429420000 |
| Paper version for Laserprinter | ESO UR20 DIN A4 WS * ²⁾ 10 1429430000 |
| Replacement parts | |
| Electronics module | UR20-EM-1315750000-SP 1 1347350000 |
| Basic module | UR20-BM-SP 5 1350930000 |
| Plug-in connector unit | UR20-PK-1315750000-SP 5 2425150000 |
| Note | |

| Type | Qty. | Order No. |
|---|------|------------|
| KDSM BHZ5.00 | 100 | 1483050000 |
| UR20-EBK-ACC | 5 | 1346610000 |
| UR20-SM-ACC | 20 | 1339920000 |
| PM 2.7/2.6 MC SDR | 192 | 1323700000 |
| PM 2.7/2.6 MC NE WS | 960 | 1323710000 |
| DEK 5/8-11.5 MC SDR | 100 | 1341610000 |
| DEK 5/8-11.5 MC NE WS | 500 | 1341630000 |
| THM UR20 GE * ¹⁾ | 1 | 1429910000 |
| THM UR20 WS * ¹⁾ | 1 | 1429420000 |
| ESO UR20 DIN A4 WS * ²⁾ | 10 | 1429430000 |
| * ¹⁾ 1 roll = 1000 label = 1 Qty. * ²⁾ 1 sheet = 60 label = 1 Qty. | | |



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|-----------------------|-------------------------|
| Product standard | IEC 61131-2 |
| EMC (in preparation) | EN 61000 |
| ATEX (in preparation) | EN 60079 |
| UL (in preparation) | UL 61010-2-201 |
| MSIP (in preparation) | MSIP-REM-WMG-1315750000 |



Let's connect.