

## Firmware change-log of new features and bug fixes of the u-remote field bus coupler: 2476450000 UR20-FBC-MOD-TCP-V2

### Firmware updating Information:

An update of the firmware can be done via the embedded web server. A description of the firmware update can be found in the u-remote web server manual on the Weidmüller website: [www.weidmueller.com](http://www.weidmueller.com)

**Version 02.15.00**      **Hardware Version 01.xx.xx**      **Release date: January, 2026**

#### New features:

- Support of RSTP

#### Information:

MAC address adaptation (due to RSTP implementation):

Now	Before
Device-/Bridge-MAC	Interface1-MAC
Port1-MAC	Interface2-MAC (was only available in Dual-LAN mode)
Port2-MAC	USB-MAC
Remote-USB-MAC	Remote-USB-MAC
USB-MAC	Remote-USB-MAC with U/L bit set (bit 1 of first octet)

#### Known issues:

- Dual-LAN mode not available

**Version 02.14.00**      **Hardware Version 01.xx.xx**      **Release date: July, 2025**

#### New supported modules:

- 2819690000 - UR20-4COM-IO-LINK-V2
- 3096630000 - SAI-AU-M8-SB-8DO-2A-V2
- 3096500000 - SAI-AU-M8-SB-8DI-V2
- 3096510000 - SAI-AU-M8-SB-8DIO-V2
- 3096490000 - SAI-AU-M12-SB-8DO-2A-V2
- 3096470000 - SAI-AU-M12-SB-8DI-V2
- 3096480000 - SAI-AU-M12-SB-8DIO-V2

**Version 02.13.00**      **Hardware Version 01.xx.xx**      **Release date: February, 2025**

#### New features:

- Improved hot swap properties - requires UR20-AUX-VSYS as last module on the station

**Version 02.12.00**      **Hardware Version 01.xx.xx**      **Release date: October, 2024**

#### New supported modules:

- 2920830000 - UR20-3EM-400V-AC-CT1A
- 2920840000 - UR20-3EM-400V-AC-CT5A
- 2920850000 - UR20-3EM-400V-AC-RC
- 2920860000 - UR20-3EM-400V-AC-333MV
- 2489840000 - UR20-1COM-CAN

#### New features:

- New parameter *Broadcast Frame Limit* (0x1160-0x1161)

#### Bug Fixes:

- Fixed byte order of *Coupler Serial Number* (0x1020-0x1027) and *Coupler Identifier* (0x1000-0x100B)

- Prohibit write "0" in register *DHCP Timeout* (0x114A)
- Input process data set to "0" for applications with power feed modules in case the module is powered off
- WebApp: Fixed display of substitute values for UR20-2PWM-I-2.5A-2DI-P
- WebApp: Fixed address display in *Register Description* file export
- WebApp: Fixed register address display for coupler parameters
- Power cycle resets connection state when *Modbus Connection Timeout* is set to "0" and a connection was already established

**Version 02.11.00      Hardware Version 01.xx.xx      Release date: November, 2023**

#### Bug Fixes:

- Fixed that Modbus messages sometimes get sent with a broadcast MAC address
- Corrected TCP socket release if connection is closed by the Modbus client
- Modbus watchdog reset procedure works as documented

#### New supported modules:

- 2489840000 - UR20-1COM-CANOPEN
- 2828350000 - UR20-4AI-I-HART-ISO-16

**Version 02.10.00      Hardware Version 01.xx.xx      Release date: August 2022**

#### New supported modules:

- 2697910000 - UR20-2PWM-I-2.5A-2DI-P

#### Known issues:

- After a re-established Ethernet link while the Modbus watchdog expired, write access to 0x1120 "Modbus watchdog, predefined time" doesn't reset the watchdog

**Version 02.09.02      Hardware Version 01.xx.xx      Release date: March 2022**

#### Bug Fixes:

- Fixed that process data of UR20-xDI-P-TS modules sometimes not getting refreshed

**Version 02.09.01      Hardware Version 01.xx.xx      Release date: February 2022**

#### Bug Fixes:

- Edited module parameters "Process data length input" and "Process data length output" of the UR20-4COM-IO-LINK can now be saved persistently and the values are displayed correctly in the web server

**Version 02.09.00      Hardware Version 01.xx.xx      Release date: October 2021**

#### New supported modules:

- 2826800000 - UR20-1COM-232-485-422-V2

#### New features:

- Web application now displays register offsets for any given I/O and parameter data object
- After starting web server's Force Mode, force state of DOs can directly be set to 'off' (previously only 'on' was available)
- New file manager for import and export of multiple files in web application

#### Bug Fixes:

- Fixed that in some scenarios of I/O configuration errors the Status Word Bit 6 remained 'false'
- A "Modbus connection timeout" event while the "Modbus watchdog" was running now will require setting the watchdog reset bit after re-connection
- A Modbus write access to registers 0x1124 – 0x1125 (Change IP address) will now lead to a Modbus response before the coupler closes the connection and takes over the changes
- Fixed that analogue output values could become 0 when maximum value is forced via webserver

#### Caution:

- This firmware requires "u-mation Device Configurator" ≥ version 1.3.1

#### Known issues:

- After a power cycle, edited module parameters "Process data length input" and "Process data length output" of the UR20-4COM-IO-LINK are set to default values (18/18) regardless of whether edited module parameters have been persistently saved, although the web server continues to display edited values

**Version 02.08.01****Hardware Version 01.xx.xx****Release date: December, 2020****New supported modules:**

- 2705620000 - UR20-2AI-UI-16
- 2566090000 - UR20-2AI-UI-16-DIAG
- 2705630000 - UR20-2AO-UI-16
- 2566100000 - UR20-2AO-UI-16-DIAG

**Bug Fixes:**

- Issue fixed regarding the import of a configuration file created with old firmware versions

**Version 02.08.00****Hardware Version 01.xx.xx****Release date: March, 2020****New feature:**

- Function Code 43 implemented
- Support of IO-LINK Device Configurator file upload via acyclic services
- New parameter in web application for setting network speed and duplex
- Coupler now accepts the restoring or importing of module parameters after new modules have been added to the end of the station, as long as the order in the area of the modules that originally existed when the parameters were saved has not changed
- Web server now offers to save and load a "Customisation file" which contains station parameters and tag names in one file

**New supported modules:**

- 2566960000 - UR20-4AI-UI-ISO-16-DIAG
- 2566970000 - UR20-2AO-UI-ISO-16-DIAG
- 2617520000 - UR20-4AI-I-HART-16-DIAG

**Bug Fixes:**

- Coupler now resends module parameters to UR20-1SM-50W-6DI2DO-P after power cycle of the module's external power supply
- "Retrieve calibration sheet" button in web server view of UR20-2AI-SG-24-DIAG works again

**Known issue:**

Web server sometimes freezes after downgrade from firmware 02.09.00 until browser cache gets cleared

**Version 02.07.00****Hardware Version 01.xx.xx****Release date: July, 2019****New features:**

- Support of acyclic services for UR20-4COM-IO-LINK, e.g. for download of configuration via PLC
- Web server accepts download of IO-Link configuration file during active fieldbus connection
- EULA confirmation on first start of web server
- New button in web server "Module parameters" replaces old parameter "Save module parameters"

**Bug Fixes:**

- Fixed that IE11 sometimes doesn't update web server after factory reset
- Web server now remains accessible when IP addresses of USB port and Ethernet port are in the same subnet and web server access over Ethernet is disabled (however, Weidmüller recommends using separate subnets)

**Known issue:**

- "Retrieve calibration sheet" button in web server view of UR20-2AI-SG-24-DIAG has no effect

**Version 02.06.00****Hardware Version 01.xx.xx****Release date: March, 2019****New supported modules:**

- 1315740000 - UR20-4COM-IO-LINK. ATTENTION - requires Module Firmware version 01.02.00 or above

**Bug Fixes:**

- Fixed issue that additional Modbus TCP port cannot be deactivated by setting "additional TCP port" to "0"
- Gateway is no longer mandatory when setting IP address in web server

**Version 02.05.00****Hardware Version 01.xx.xx****Release date: July, 2018**

**New supported modules:**

- 2489830000 - UR20-1SM-50W-6DI2DO-P
- 2456530000 - UR20-8DIO-P-3W-DIAG
- 2555940000 - UR20-8AI-RTD-DIAG-2W
- 2544660000 - UR20-4AI-UI-DIF-32-DIAG

**New features:**

- Service file and configuration file names now contain coupler type and serial number

**Bug Fixes:**

- Fixed that Function Code 22 (Mask write register) modifies only high byte of the specified register
- Fixed that IE freezes after applying out of range parameter values occasionally

**Version 02.04.00****Hardware Version 01.xx.xx****Release date: April, 2018****Information:**

- Couplers with hardware version  $\geq 01.05.00$  can't get downgraded below firmware version 02.04.00

**Version 02.03.00****Release date: December 2017****New features:**

- Reset button appears automatically when changes in parameter settings require a restart to take effect
- Added display of slot numbers to list of compatible modules after selecting a firmware file in multi-update view
- Added password policy and weak password check - default username and password will remain the same
- New languages for Web Server available for download. Korean, French, Spanish, Portuguese and Italian
- Added new register 0x100E 'Port Link Status' which has two flags to show which port has a link
- Added HTTPS support and new coupler parameter 'HTTPS settings'
- Attention: To use this function please update the coupler with the additional firmware file:
- FB-MOD-FSBL-0008210-01\_02\_00-8.bsc

**Bug Fixes:**

- Fixed issue that live module unplug/replug sometimes corrupts I/O mapping
- Fixed issue that re-installation attempt of language files sometimes causes an error message

**New supported modules:**

- 2457250000 - UR20-4DO-ISO-4A
- 2457240000 - UR20-8DI-ISO-2W

**Version 02.02.01****Release date: May 17, 2017****New feature:**

- Dual LAN function for Ethernet Ports