

Firmware change-log of new features and bug fixes of the u-remote field bus coupler: 1334890000 UR20-FBC-CAN

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

Version 01.13.00	Hardware Version 01.xx.xx	Release date: February, 2025
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New features:

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

Version 01.12.00	Hardware Version 01.xx.xx	Release date: October, 2024
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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

Bug Fixes:

- 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
- Fixed that going event of module diagnosis resets module diagnostic alarm info flag (5002h)
- Fixed module status information (2002h) for pulled and plugged modules
- Fixed that sometimes module diagnoses didn't trigger SF LED and Status Bit 0 (1002h)

Version 01.11.00	Hardware Version 01.xx.xx	Release date: November, 2023
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Bug fixes:

- Object 5000h returns correct length and content of diagnostic information again.

New supported modules:

- 2489840000 - UR20-1COM-CANOPEN

Version 01.10.00	Hardware Version 01.xx.xx	Release date: August, 2022
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New supported modules:

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

Known issue:

- Object 5000h returns only 13 Bytes (instead of 47) including wrong values

Version 01.09.00	Hardware Version 01.xx.xx	Release date: February, 2022
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New supported modules:

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

New features:

- 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 analogue output values could become 0 when maximum value is forced via webserver

Known issue:

- Object 5000h returns only 13 Bytes (instead of 47) including wrong values

Caution:

- This firmware requires “u-mation Device Configurator” ≥ version 1.3.1

Version 01.08.00 Hardware Version 01.xx.xx Release date: March, 2020

New supported modules:

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

New features:

- Support of IO-LINK Device Configurator file upload via acyclic services
- 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

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 01.08.00 until browser cache gets cleared

Version 01.07.00 Hardware Version 01.xx.xx Release date: July, 2019

New features:

- Support of LSS commands to change Node ID and Baud Rate
- 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

Known issue:

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

Version 01.06.00 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

Version 01.05.00 Hardware Version 01.xx.xx Release date: July, 2018

Information:

- To fully complete this update it is necessary to manually set the coupler to Factory Settings after installation

New supported modules:

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

New features:

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

Bug Fixes:

- Fixed wrong product order numbers in EDS file
- Fixed that IE freezes after applying out of range parameter values occasionally

Version 01.04.00 Hardware Version 01.xx.xx Release date: April, 2018

Information:

- Couplers with hardware version ≥ 01.08.00 can't get downgraded below firmware version 01.04.00

Version 01.03.00**Release date: December 2017**

For couplers with a firmware version below 01.00.04 please see update information of version 01.00.04!

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

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 01.02.01**Release date: May 17, 2017**

For couplers with a firmware version below 01.00.04 please see update information of version 01.00.04!

Bug Fixes:

- Improved startup behaviour
- Module error in object 2002h is displayed

Web Application:

- Improved naming of parameter "Restore module parameters" and its option
- Tooltips for coupler LEDs
- Improved arrangement of module parameters and general information
- Display of raw process data next to converted physical value

New supported modules:

- 2456540000 - UR20-4AI-RTD-HP-DIAG
- 2453880000 - UR20-4AO-UI-16-M
- 2453870000 - UR20-4AO-UI-16-M-DIAG

Version 01.01.00**Release date: October 04, 2016**

For couplers with a firmware version below 01.00.04 please see update information of version 01.00.04!

New features:

- Module black list detection - coupler rejects incompatible modules (UR20-xxx-FSPS, UR20-xxx-FSOE, UR20-xxx-TS)

Bug Fixes:

- Web application performance increased
- Optimized wording of options of coupler parameter "Save module parameter"
- Wording of UR20-2FCNT-100 in web server now matches with manual

New supported modules:

- 1990070000 - UR20-2AI-SG-DIAG

Version 01.00.07**Release June 2016**

For couplers with a firmware version below 01.00.04 please see update information of version 01.00.04!

New features:

- The configuration file of the coupler can be imported and exported: Attention: This feature only works with an additional reset to factory defaults after updating if an older firmware < 01.00.07 was installed before
- UR20-16Dx...: Additional compatibility to Codesys and Pro-Face separate application note available

Bug Fixes:

- UR20-2FCNT-100 : value range for current period and present period is corrected
- UR20-4AI-TC-DIAG: value range for temperature units F and K is corrected
- Proper process data exchange when entering the force mode of the webserver
- update of the object dictionary when editing module parameters via webserver
- AI TPDOs are mapable in two different profiles
- PDO mapping for function modules is corrected

- Multiple AOs and DOs are working if they are mapped to different profiles
- UR20-1COM-SAI-PRO: Revised layout of SAI modules in overview

New supported modules:

- 2001670000 - UR20-4AI-R-HS-16-DIAG
- 1993880000 - UR20-4AI-UI-DIF-16-DIAG
- 2007420000 - UR20-3EM-230V-AC
- 1315400000 - UR20-16DI-N-PLC-INT
- 1315450000 - UR20-16DO-N-PLC-INT

Version 01.00.04 Release December 2015

Attention:

- Coupler firmware versions ≤ 01.00.04 need to be updated in two steps.
(See separate PDF document: "Application Note Firmwareupdate UR20 coupler").

New features:

- Units of parameters are shown in detail view of the web server

Bug Fixes:

- Fixed the error message when save the parameters via web application
- No process image update during start-up is fixed
- Access of the coupler parameters via CAN objects added
- Alignment of data formats between PDOs and SDOs.
- RPDOs of function modules are fixed.
- Display of coupler parameter in the web server, while new modules are added, is fixed.
- Fixed coupler behaviour with 16-bit modules regarding TPDOs.
- Corrected behavior of module status LED in WEB-Server for UR20-PF-O-xDI-SIL, UR20-PF-O-2DI-SIL and UR20-PF-O-2DI-SIL-DELAY

Known issues:

- Process data of modules of the same type shouldn't be cross-mapped into different profiles at the same time.
- Module process data can be mapped into the Manufacturer Profile (4000th Object dictionary range) or into the Device Profile (6000th Object dictionary range).
For PDOs of modules of the same type (digital, analogue or functional) that are mapped into both object dictionary areas no data plausibility can be guaranteed. This problem does not affect cross-mapping of different module types.

New supported modules:

- 1315440000 UR20-16DO-N
- 1315750000 UR20-1COM-232-485-422
- 2007430000 UR20-1COM-SAI-PRO
- all SAI-AU Mx SB Modules (IP 67)

Version 01.00.03 Release September 2015

Bug Fixes:

- Fixed: no update of input PDOs on transition from Pre-operational to Operational state,
- Fixed: incorrect length declared for output PDOs of functional modules,
- Fixed: incorrect mapping of functional modules if more than 4 RPDOs used,
- Fixed: Endianness of 4000th objects opposite to the rest of the Object dictionary - Caution: no guarantee of compatibility with applications with FW 01.00.01 or lower versions.

Known issues:

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- Module process data can be mapped into the Manufacturer Profile (4000th Object dictionary range) or into the Device Profile (6000th Object dictionary range).
For PDOs of modules of the same type (digital, analogue or functional) that are mapped into both object dictionary areas no data plausibility can be guaranteed. This problem does not affect cross-mapping of different module types.

Version 01.00.01 Release August 2015

New features:

- New web application – Note: It's necessary to update the language file, if the coupler has an older FW-version ≤ 01.00.01
- Default password for the web server

Version 01.00.0 Release July 2015

- First released version