Firmware change log of the u-control device: 1334950000 UC20-WL2000-AC

Firmware updating information:
An update of the firmware can be done via the graphical web front end. A description of the firmware update procedure can be found in the u-control manual on the Weidmüller website: www.weidmueller.com

Version 1.7.0  Hardware Version 01.xx.xx  Release date: April, 2020
New features:
- Modbus TCP Slave
- FBD: improved editor and online view.
- FBD: copy and paste between custom FBs.
- Global system status information
- Node-RED: upgrade to version 1.0.3
- Usage of the second Ethernet port (X2) is now supported.
- User defined NTP server parameters
- User defined variables in data storage
- Visu: configured widget visibility

Information:
- Online help supports search operation.

Bug fixes:
- Node-RED: installation of additional nodes might fail with error "EACCES: permission denied".

Known issues:
- Node-RED: 'iodata-out' does not accept set values when variable is of type 'TIME'.
- OPC UA: write access to variables of type 'TIME' is currently not possible.
- Firefox: 'Private Mode' is currently not supported.
- Application: 'REAL_TO_TIME' values are not displayed in full precision which may lead to problems in comparison operations.
- Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.
- Configuration of UR20-PF-O-2DI-Delay-SIL module maps diagnostic data in a wrong way.

Version 1.6.0  Hardware Version 01.xx.xx  Release date: February, 2020
New features:
- Weidmüller products 'Managed Switch' are supported regarding DHCP handling.

Information:
- Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update.
- Node-RED: flow size is limited to 3 MB per export/import operation.

Bug fixes:
- Node-RED: flow size is increased from 1 to 3 MB.
- OPC UA: the variable identifier now corresponds to the global variable, hence it will only change if the variable name changes.
- Data storage: variables are now cleared during factory reset.
- Firefox: scrolling limitations are solved when monitoring FB diagrams.

Known issues:
- Node-RED: installation of additional nodes might fail with error "EACCES: permission denied". A factory reset solves this issue.
- Node-RED: 'iodata-out' does not accept set values when variable is of type 'TIME'.
- OPC UA: write access to variables of type 'TIME' are currently not possible.
- Firefox: 'Private Mode' is currently not supported.
- Application: 'REAL_TO_TIME' values are not displayed in full precision which may lead to problems in comparison operations.
- Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 1.5.0  Hardware Version 01.xx.xx  Release date: January, 2020
New features:
• Function block MOV
• Non-volatile data store variables
• Device Live View – Monitoring the device configuration of the real-time application
• Execution control for FBs and Functions
• Multi-select support in Smart Visu Editor
• Network setting supports beside static also dynamic IP configuration (DHCP).

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update.
• Node-RED: flow size is currently limited to 1 MB.
• Weidmüller products ‘Managed Switch’ are still not supported regarding DHCP handling.

Bug fixes:
• Node-RED: error 502 Bad Gateway after power up is solved

Known issues:
• Node-RED: installation of additional nodes might fail with error “EACCES: permission denied”. A factory reset solves this issue.
• Node-RED: iodata-out doesn’t accept set values when variable is of type TIME
• Firefox: has scrolling limitations when using Live View for FB diagrams
• Firefox: ‘Private Mode’ is currently not supported
• Application: REAL_TO TIME values are not displayed in full precision which may lead to problems in comparison operations
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 1.4.1                    Hardware Version 01.xx.xx                    Release date: November, 2019

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update

Bug fixes:
• U-Link: registration lost with message ‘The registration is pending’ is solved

Known issues:
• Firefox: ‘Private Mode’ is currently not supported
• Node-RED: iodata-out doesn’t accept set values when variable is of type TIME
• Application: REAL_TO TIME values are not displayed in full precision which may lead to problems in comparison operations
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.04.00                    Hardware Version 01.xx.xx                    Release date: October, 2019

New supported modules:
• Stepper Module UR20-1SM-50W-6DI2DO-P

New features:
• Function block SEL

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update
• During execution of a firmware update procedure a power loss must be prevented.

Bug fixes:
• NOT operator supports INPUT and OUTPUT types beyond BOOL

Known issues:
• U-Link: in rare cases the status ‘The registration is pending’ might appear. To solve this issue the registration key has to renewed in the U-Link web portal. Afterwards a power cycle of the device is necessary to initiate a new registration.
• Firefox: ‘Private Mode’ is currently not supported
• Application: REAL_TO TIME values are not displayed in full precision which may lead to problems in comparison operations
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.03.00                    Hardware Version 01.xx.xx                    Release date: September, 2019
New features:

- u-link
- OPC-UA server
- XY-Line Chart for Smart Visu
- Online view in FBD editor
- Improved support of the visualisation for resistent touch panels
- Improved support of low performance touch panels can be activated by a selective checkbox in the Visu Editor

Information:

- Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update
- During execution of a firmware update procedure a power loss must be prevented.

Bug fixes:

- Fixed loss of RTC system time on reboot.

Known issues:

- Firefox: 'Private Mode' is currently not supported
- Application: REAL_TO_TIME values are not displayed in full precision which may lead to problems in comparison operations
- To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.
- Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.02.00  Hardware Version 01.xx.xx  Release date: June, 2019

New supported modules:

- UR20-16DI-N
- UR20-16DI-N-PLC-INT
- UR20-16DO-N
- UR20-16DO-N-PLC-INT
- UR20-1CNT-100-1DO
- UR20-1CNT-500
- UR20-1COM-232-485-422 - Modbus RTU Master support only
- UR20-1SSI
- UR20-2CNT-100
- UR20-2DI-P-TS
- UR20-2FCNT-100
- UR20-2PWM-PN-0.5A
- UR20-2PWM-PN-2A
- UR20-4AI-RTD-HP-DIAG
- UR20-4AI-UI-16-HD
- UR20-4AO-UI-16-HD
- UR20-4AO-UI-16-M
- UR20-4Di-N
- UR20-4Di-P-TS
- UR20-4DO-N
- UR20-4DO-N-2A
- UR20-8AI-RTD-DIAG-2W
- UR20-8DI-N-3W
- UR20-8DO-N

New features:

- Added module catalogue
- Modbus RTU Master with device configurator
- User Interface - new Starting page improves the navigation
- User Interface - improved save and deploy handling for projects
- Node-RED is now supported in the Automation Controller firmware
- Usage of SD card is now supported

Information:

- Due to a rendering bug in Firefox version 66 the Programming UI in UC-WL2000-AC is malfunctioning. As a workaround please use Firefox ESR or Chrome instead.
- Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update

Bug fixes:
Variables: Negative e-notation for REAL is not supported
Variable input widget: Keypad does not allow input of value 0 right behind a decimal dot. Use keyboard input in that case.
Time Settings: month is displayed wrongly (current month – 1)
Live View: Message “Loading…” is displayed in case a project without variables is deployed. It can be ignored.
Autoscan: Displays proper error message for unsupported I/O modules

Known issues:
Firefox: ‘Private Mode’ is currently not supported
Application: REAL_TO_TIME values are not displayed in full precision which may lead to problems in comparison operations
To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.
Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.01.00 Hardware Version 01.xx.xx Release date: February, 2019

New supported modules:
- UR20-3EM-230V-AC

New features:
- Visualisation - editor to configure visualisations for human machine interfaces
- Custom POUs - export and import operation of custom POUs
- Added Function Block ‘PID controller’ to the Catalogue
- Configuration of up to three different DNS server addresses

Information:
Activation of SD card slot and the second Ethernet port (X2) is not available yet and will be added in a future firmware update

Bug fixes:
- Global variables: Leading underscores are now allowed
- Import of large project files no longer causes ‘Disconnected’ message
- Fixed that in rare cases a restart of the device causes connection error messages
- Improved compatibility to USB cables of different standards
- No more limitation to IP address changes

Known issues:
Firefox: ‘Private Mode’ is currently not supported
Variables: Negative e-notation for REAL is not supported
Variable input widget: keypad does not allow input of value 0 right behind a decimal dot. Use keyboard input in that case
Time Settings: month is displayed wrongly (current month – 1)
Live View: Message “Loading…” is displayed in case a project without variables is deployed. It can be ignored
Autoscan: No proper error message for unsupported I/O modules
To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.

Version 01.00.00 Hardware Version 01.xx.xx Release date: October, 2018

New supported modules:
- UR20-4DI-P
- UR20-4DI-P-3W
- UR20-8DI-P-2W
- UR20-8DI-P-3W
- UR20-8DI-P-3W-HD
- UR20-8DI-ISO-2W
- UR20-16DI-P
- UR20-16DI-P-PLC-INT
- UR20-4DI-2W-230V-AC
- UR20-4DO-P
- UR20-4DO-P-2A
- UR20-4DO-PN-2A
- UR20-4DO-ISO-4A
- UR20-8DO-P
- UR20-8DO-P-2W-HD
- UR20-16DO-P
- UR20-16DO-P-PLC-INT
- UR20-4RO-SSR-255
- UR20-4RO-CO-255
- UR20-4AI-UI-16
- UR20-4AI-UI-12
- UR20-8AI-I-16-HD
- UR20-8AI-I-PLC-INT
- UR20-4AI-RTD-DIAG
- UR20-4AI-TC-DIAG
- UR20-4AI-R-HS-16-DIAG
- UR20-4AO-UI-16
- UR20-PF-O-1DI-SIL
- UR20-PF-O-2DI-SIL
- UR20-PF-O-2DI-DELAY-SIL
- UR20-PF-I
- UR20-PF-O
- UR20-16AUX-I
- UR20-16AUX-O
- UR20-16AUX-FE
- UR20-16AUX-GND-I
- UR20-16AUX-GND-O
- UR20-ES

**Information:**
- Turn on the power supply for the u-control device before you connect the USB cable to avoid problems when starting the u-control device.
- SD Card and Ethernet port labeled X2 will be supported with a future firmware version.

**Known issue:**
- Firefox 'Private Mode' is currently not supported.
- Using reserved keywords e.g. 'nan' or 'infinity' as names in the WebUI leads currently to a generic deploy error.
- During an import operation of a large project a 'disconnected screen' might appear and a browser refresh will clear it.
- In rare cases a restart of the system might bring up a connection error with different error messages. An additional browser refresh will solve it.
- Negative e-notation for REAL not supported.
- Some USB cables might have problems to work properly. Please try a different one.
- Ethernet IP address can only be changed when Ethernet cable is plugged in and has a lively connection.