

u-remote library for CODESYS 3.5

CODESYS package Release Notes

Abstract:

The library package contains function blocks and functions for easy use of Weidmüller u-remote modules. This document contains the associated Release Notes.

Hardware reference

No.	Component name	Article No.	Hardware / Firmware version
1	UR20-1COM-232-485-422-V2	2826800000	-
2	UR20-1COM-232-485-422 V1	1315750000	FW 1.0.0.16
3	UR20-4DI-P	1315170000	-
4	UR20-4DI-P-3W	2009360000	-
5	UR20-4DI-P-3W	2009360000	-
6	UR20-8DI-P-2W	1315180000	-
7	UR20-8DI-P-3W	1394400000	-
8	UR20-8DI-P-3W-HD	1315190000	-
9	UR20-3EM-230V-AC	2007420000	-
10	UR20-4COM-IO-LINK	1315740000	-
11	UR20-2AI-SG-24-DIAG	1990070000	FW 1.00.06
12	UR20-1COM-CANOPEN	2489840000	FW 1.0.0
13	UR20-2AI-UI-16	2705620000	-
14	UR20-4AI-UI-12	1394390000	-
15	UR20-4AI-UI-16	1315620000	-
16	UR20-4AI-UI-16-HD	1506920000	-
17	UR20-2AI-UI-16-DIAG	2566090000	-
18	UR20-4AI-UI-16-DIAG	1315690000	-
19	UR20-4AI-UI-16-DIAG-HD	1506910000	-
20	UR20-4AI-RTD-DIAG	1315700000	-
21	UR20-4AI-RTD-HP-DIAG	2456540000	-
22	UR20-1COM-CAN	3040800000	FW 1.0.0

Software reference

No.	Software name	Article No.	Software version
1	CODESYS	-	Tested with V3.5 SP19 V3.5 SP21
2	CODESYS Control SL for Weidmueller u-OS	-	V4.12.1.0 or higher

File reference

No.	Name	Description	Version
1	-	-	-

Contact

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For any further support please contact your
local sales representative:
<https://www.weidmueller.com/countries>

Revision history

Version	Date	Change log	Author
1.0.0	2025-07	First version	W010174
1.0.1	2025-07	Updated software reference Codesys version	W010347
1.0.2	2025-07	Hot fix for libWiUr20ComRs232_485_422_V2	W010174

1 Release Notes

Version 3.0.1

Release date: July, 2025

Information:

- Hot fixes in in libWiUr20ComRs_232_485_422_V2.

Bug fixes:

- Fixes non-deterministic freeze of the behavior model state machine in FB_UR20_1ComRs_232_485_422_V2_ModbusMaster in libWiUr20ComRs_232_485_422_V2 when transitioning from state 'active' to state 'standby'.
- Fixes non-deterministic configuration mismatch errors during transition to Standby in function block FB_UR20_1ComRs_232_485_422_V2_ModbusMaster in libWiUr20_ComRs_232_485_422_V2.

Known issues:

- The UR20_1COM_232_485_422_V2 firmware versions 1.0.3 and older have known issues:
 - Crosstalk between diagnosis bytes of the configured channels in Modbus Master mode and Modbus Slave mode. This issue renders the diagnosis information in etChannelDiag of the configured channels unreliable if the user configures more than one channel. If you need diagnosis information on the Modbus transfers, configure one channel only, when using the Modbus Master- or Modbus Slave mode of the module.
 - in Modbus Master mode, the payload size for transfer from the module to the PLC or fieldbus coupler for Read Coil- and Read Discrete Input - Function codes falsely depend on bit- and register offset. As a workaround, the FB_UR20_1ComRs_232_485_422_V2_ModbusMaster in the library libWiUr20ComRs_232_485_422_V2 does not verify the payload size. This issue affects the internals of this FB but has no relevant effect on user data.
 - In Modbus Master mode, the module immediately confirms the Tx commands "stop communication" and "clear module data" even though the module did not yet complete the command execution.

Version 3.0.0

Release date: July, 2025

Information:

- Breaking change: The libWi-libraries and libWi-libraries used therein as dependencies may need to be re-resolved in existing Codesys projects due to change in the company name. Please refer to the chapter "libWi library usage" in the library package documentation.

New Supported Modules:

- UR20-1COM-CAN
- UR20-1COM-CANOPEN

New features:

- Added xNewDataArrived flag in Modbus Master FB in libWiUr20ComRs_232_485_422_V2.
- Added the chapter "libWi library usage" that explains how to install the package and re-resolve library references in customers' Codesys projects.
- libWirUr20ComCan: FB for transparent mode
- libWiUr20ComCanopen: new FB for reading and writing SDO data at CANopen mode
- libWiUr203EM_230V_AC: add support for diag- and process alarm message handling

Bug fixes:

- Fixed write channel diag missing bug in libWiUr20ComRs_232_485_422_V2
- libWiUr20ComRs_232_485_422: fix too short timeouts of param sysbus r/w FBs
- libWiUr20ComRs_232_485_422_V2:
 - fix bug in modbus master FB: processing multiple write channels might fail
 - fix bug in modbus master FB: process data events of 1COMv2, update etChannelDiag of write channels
- libWiUr20_2AI_SG: fix param sysbus r/w timeouts
- libWiUr20AiUi: fix param sysbus r/w timeouts
- libWiUr20PWM: fix param sysbus r/w timeouts
- libWiUr20RTD: fix param sysbus r/w timeouts
- libWiUr20TC: fix param sysbus r/w timeouts
- libWiUr204ComIolink: fix for Modbus TCP connect

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 - in Modbus Master mode, the payload size for transfer from the module to the PLC or fieldbus coupler for Read Coil- and Read Discrete Input - Function codes falsely depend on bit- and register offset. As a workaround, the FB_..._ModbusMaster in the library libWiUr20ComRs_232_485_422_V2 does not verify the payload size. This issue affects the internals of this FB but has no relevant effect on user data.