W&T connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

W&T
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Firmware:

Web-IO 4.0 230V Relay 4xNO, 4xCO
Model 57838

Current firmware

Date	Changes and comments	Revision
December 8, 2023	• Actions - HTTP requests support preshared bearer tokens. • Modbus-TCP - Accessibility for a parallel connection • MQTT - Box-to-Box - Outputs from Web-IO A follow Input-Publish from Web-IO B	1.69 ZIP download

Older firmware

Date	Changes and comments	Revision
March 24, 2023	• TCP/IP stack - MTU up to max. 1500 possible • OPC UA - Problems with Output Pulse Mode fixed • Actions - Host name for HTTP requests in the head corrected	1.66 on request
February 2, 2023	• Homepage - With showing without menu tree, login as User is also possible • TLS/SSL - SNI support (Server Name Indication) activated	1.65 on request
December 12, 2022	• IP stack - MTU settable • IP stack - Improved processing of fragmented UDP packets • System start - When boot error occurs update mode is activated for system restore • MQTT - Publish is suppressed when \<disable\> is entered as payload • OPC UA - URI query corrected	1.64 on request
November 3, 2022	• DHCP - Processing of the option flags expanded • OPC UA - Transfer of application URI corrected • Config Upload - Parameter transfer corrected • System start - Configuration initialization optimized	1.63 on request
September 27, 2022	• Actions - up to 16 outputs on another Web-IO can be switched • Actions - placeholders in the HTTP payload are supported • Actions - for HTTP-POST without payload a content length of 0 is entered in the header • OPC UA - NodeID overview can be recalled • OPC UA - your own NodeIDs can be loaded via list • OPC UA - setting outputs by writing the CurrentOutputState-Nodes is possible • OPC UA - writing the input counters by writing the CurrentInputCounter-Nodes is possible • MQTT - QoS2 processing revised • Modbus-TCP - diagnostics querying expanded • Input-Counter - problems with bi-directional counting fixed • System - Config Upload optimized and accelerated Note: If, in the existing configuration, multiple outputs are used in an action, this option must be reset following an update!	1.62 on request
April 5, 2022	• Passwords - non-allowed characters are rejected • Firmware update: Initiating via button in the interface possible • Emergency access - missing login page added • SNMP - MIBs and OIDs expanded • OPC UA - Node-IDs can be modified via list upload • Actions - switching of multiple outputs optimized Please use the newest included version of Wutility for the update.	1.56 on request

Date	Changes and comments	Revision
January 13, 2022	- HTTPS - Chunked transfer revised - SSL/TLS - Certificate upload now possible again - DHCP - IP assignment with DHCP relays adapted - Boot sector - Emergency access when firmware update is interrupted now revised Please use the newest included version of Wutility for the update.	1.54 on request
October 7, 2021	- Outputs - Pulse mode revised - REST - Digest authentication corrected - Homepage - Size of display tiles adjusted - My Web Page - JavaScript optimized	1.52 on request
August 2, 2021	- Actions - HTTP Request Basic Auth. revised - Actions - HTTP Request Digest Auth. revised - Actions - HTTP Request POST revised - Boot Up - Denial of Service by UDP flood blocked	1.51 on request
May 4, 2021	- OPC - OPC UA implemented - TLS - Uploading your own certificates is possible - Actions - REST token timeout adjusted - Actions - REST compatibility improved - Pulse Mode - Internal handling improved	1.50 on request
August 12, 2020	SSL/TLS - TLS stack expanded with Version 1.2 Reverting to firmware revisions lower than V1.36 is no longer possible after this update! After the update a restart (simple reset) of the Web-IO is required To load this firmware, WuTility must be used in the newest version included!	1.44 on request
July 2, 2020	- Web-API - Cross Origin Request expanded - Actions - POST added to HTTP requests - Actions: Token authentication possible with HTTP requests Reverting to firmware revisions lower than V1.36 is no longer possible after this update! After the update a restart (simple reset) of the Web-IO is required To load this firmware, WuTility must be used in the newest version included!	1.43 on request
March 5, 2020	- Actions - Cold start as trigger possible again - Actions - Warm start as trigger possible again - SNMP - Indexing problem for actions corrected - MQTT - SSL transmission and Client-ID introduced	1.39 on request
January 7, 2020	- Actions - Digist authentication for HTTP(S) requests revised - Inputs/Outputs - Filter and pulse settings adapted for new hardware drivers	1.38 on request
December 12, 2019	- Downgrade block - JSON enable included - MQTT - Last Will connection topic revised - SNMP - private authentication revised - Date/time - weekday calculation revised - Homepage - Action tiles expanded - Config Up/Down Load - processing accelerated (no more timeout)	1.37 on request
December 2, 2019	- SNMP - Time compensation for SNMPv3 corrected - Pulse mode - Dependencies when resetting adjusted - REST - Greater tolerance for upper/lower case in HTTP header fields - Actions - Number of possible actions increased to 30 - Actions - For HTTP(S) requests W&T placeholders are accepted - Actions - For HTTP(S) requests greater tolerance for upper/lower case in HTTP header fields - User page - Problems in representing W&T tags fixed - Memory management - used address space expanded	1.36 on request

Date	Changes and comments	Revision
August 1, 2019	• SNMP - Support of downward compatible OIDs improved • SNMP - Support up to SNMPv3 • Configuration_Upload - Timeout behavior optimized • Version query expanded • MQTT - Ping timeout corrected • Device registration at W&T possible	1.35 on request
June 15, 2018	• Firmware for pre-production version	1.32 on request