

Firmware:

Web-IO 4.0 Digital, 2xIn, 2xOut

Model 57737

Current firmware

Date	Changes and comments	Revision
December 8, 2023	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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
October 28, 2022	<ul style="list-style-type: none"> • Actions - for HTTP-POST without payload a content length of 0 is entered in the header • Actions - Parameter management corrected • OPC UA - setting outputs by writing the CurrentOutputState-Nodes is possible • OPC UA - Writing the input counters by writing the CurrentInputCounter-Nodes is possible • OPC UA - Transfer of application URI corrected • Input-Counter - problems with bi-directional counting fixed • DHCP - Processing of the option flags expanded • System start - Configuration initialization optimized <p>Note: If, in the existing configuration, multiple outputs are used in an action, this option must be reset following an update!</p>	1.63 on request
August 31, 2022	<ul style="list-style-type: none"> • Actions - placeholders in the HTTP payload are supported • Actions - up to 16 outputs on another Web-IO can be switched • OPC UA - NodeID overview can be recalled • OPC UA - your own NodeIDs can be loaded via list • MQTT - QoS2 processing revised • Modbus-TCP - diagnostics querying expanded • System - Config Upload optimized and accelerated <p>Please use the newest included version of Wutility for the update.</p>	1.60 on request
April 5, 2022	<ul style="list-style-type: none"> • 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 <p>Please use the newest included version of Wutility for the update.</p>	1.56 on request

Date	Changes and comments	Revision
January 11, 2022	<ul style="list-style-type: none"> • 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 • Pulse Mode - Problems with internal supply fixed <p style="color: red;">Please use the newest included version of WuTility for the update.</p>	1.54 on request
October 7, 2021	<ul style="list-style-type: none"> • Outputs - Pulse mode revised • Inputs - Short pulse processing improved • REST - Digest authentication corrected • Homepage - Size of display tiles adjusted • My Web Page - JavaScript optimized 	1.52 on request
August 2, 2021	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • SSL/TLS - TLS stack expanded with Version 1.2 <p style="color: red;">Reverting to firmware revisions lower than V1.36 is no longer possible after this update!</p> <p style="color: red;">After the update a restart (simple reset) of the Web-IO is required</p> <p style="color: red;">To load this firmware, WuTility must be used in the newest version included!</p>	1.44 on request
July 2, 2020	<ul style="list-style-type: none"> • Socket-API - counterclear - set value corrected • Web-API - counterclear - set value corrected • Web-API - Cross Origin Request expanded <p style="color: red;">Reverting to firmware revisions lower than V1.36 is no longer possible after this update!</p> <p style="color: red;">After the update a restart (simple reset) of the Web-IO is required</p> <p style="color: red;">To load this firmware, WuTility must be used in the newest version included!</p>	1.43 on request
June 22, 2020	<ul style="list-style-type: none"> • Actions - POST added to HTTP requests • Actions: Token authentication possible with HTTP requests 	1.42 on request
May 25, 2020	<ul style="list-style-type: none"> • Internal processing latencies reduced 	1.41 on request
March 5, 2020	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Actions - Digest authentication for HTTP(S) requests revised • Inputs/Outputs - Filter and pulse settings adapted for new hardware drivers 	1.38 on request
December 12, 2019	<ul style="list-style-type: none"> • 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

Date	Changes and comments	Revision
December 2, 2019	<ul style="list-style-type: none"> • SNMP - Time compensation for SNMPv3 corrected • Pulse mode - Dependencies when resetting adjusted • REST - Greater tolerance for upper/lower case in HTTP header fields • Actions - Clear message for counter monitoring added • 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
August 1, 2019	<ul style="list-style-type: none"> • 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
April 10, 2019	<ul style="list-style-type: none"> • Configuration upload - port verification improved • Socket Api - settime command introduced • HTTP Api - settime command introduced • Date/time - internal clock calibration optimized 	1.33 on request
January 21, 2019	<ul style="list-style-type: none"> • internal interrupt processing optimized 	1.32 on request
November 16, 2018	<ul style="list-style-type: none"> • Web-API - Cross origin request can be configured • Rest - Cross original request can be configured 	1.31 on request
October 22, 2018	<ul style="list-style-type: none"> • MQTT - uniform W&T standard topics introduced 	1.29 on request
September 20, 2018	<ul style="list-style-type: none"> • Actions - Triggering by setting counter to zero optimized • Actions - <CR> tag for line skip introduced 	1.27 on request
June 28, 2018	<ul style="list-style-type: none"> • Box-to-Box - Signal detection at start optimized • SNMP - download link for MIB corrected 	1.24 on request
June 4, 2018	<ul style="list-style-type: none"> • SNMP - OIDs from preceding model are accepted • BINARY Client - Server Addr. also configurable as name • Configuration - internal plausibility check 	1.23 on request
March 15, 2018	<ul style="list-style-type: none"> • Actions - Use of host names instead of IP revised • Actions - Sending of SNMP trap texts corrected • Upload of large configuration files improved 	1.22 on request
January 26, 2018	<ul style="list-style-type: none"> • MQTT - Last Will added • Network buffer processing optimized • Actions - TCP message now also permitted on localhost • Outputs - Resetting for pulse revised 	1.21 on request
September 20, 2017	<ul style="list-style-type: none"> • MQTT Publish: QoS can be set • MQTT Publish: Retain can be set • SNMP: UDP ports can be set • Outputs: Inverting revised • Homepage: HTTP(S) communication optimized • Firmware update: internal processes optimized 	1.20 on request
July 20, 2017	<ul style="list-style-type: none"> • Restart behavior when changing the IP parameters corrected • IO processing after restart revised • Pulse mode: Behavior after saving corrected • HTTPS/TLS: Processing of large data blocks optimized • Accuracy of the internal clock improved 	1.18 on request
June 28, 2017	<ul style="list-style-type: none"> • MQTT: ClientID output corrected • MQTT: No publish without message text 	1.17 on request

Date	Changes and comments	Revision
June 8, 2017	<ul style="list-style-type: none"> • Display of network interruptions on Home • Actions: Output of HTTPS requests added • Actions: Logic in IO combinations revised • Client specifications for MSL/MTU size taken into account • SSL network buffer management optimized 	1.16 on request
May 11, 2017	<ul style="list-style-type: none"> • Website callup optimized • Parameter transfer revised • Pulse mode: Reset behavior corrected 	1.15 on request
March 20, 2017	<ul style="list-style-type: none"> • Network buffer processing accelerated • SSL handling revised • Start-timeout for unused sockets 	1.14 on request
February 3, 2017	<ul style="list-style-type: none"> • Menu guidance and operation revised • current SNMP-MIB added • SNMP - OID tree adjusted 	1.13 on request
January 18, 2017	<ul style="list-style-type: none"> • Menu guidance and operation revised • Password protection for Box-to-Box improved • XML format for REST adapted to standard • Configuration and administration of the actions improved 	1.12 on request
October 6, 2016	<ul style="list-style-type: none"> • Firmware for pre-production version 	1.10 on request



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