

Firmware:

## Web-IO 4.0 Digital 12xIn, 12xOut

### Model 57730

#### Current firmware

Date	Changes and comments	Revision
December 7, 2023	<ul style="list-style-type: none"> <li>• Actions - HTTP requests support preshared bearer tokens.</li> <li>• Modbus-TCP - Accessibility for a parallel connection</li> <li>• MQTT - Box-to-Box - Outputs from Web-IO A follow Input-Publish from Web-IO B</li> </ul>	1.69 <a href="#">ZIP download</a>

#### Older firmware

Date	Changes and comments	Revision
March 23, 2023	<ul style="list-style-type: none"> <li>• TCP/IP stack - MTU up to max. 1500 possible</li> <li>• OPC UA - Problems with Output Pulse Mode fixed</li> <li>• Actions - Host name for HTTP requests in the head corrected</li> </ul>	1.66 on request
February 7, 2023	<ul style="list-style-type: none"> <li>• Homepage - With showing without menu tree, login as User is also possible</li> <li>• TLS/SSL - SNI support (Server Name Indication) activated</li> </ul>	1.65 on request
December 12, 2022	<ul style="list-style-type: none"> <li>• IP stack - MTU settable</li> <li>• IP stack - Improved processing of fragmented UDP packets</li> <li>• System start - When boot error occurs update mode is activated for system restore</li> <li>• MQTT - Publish is suppressed when &lt;disable&gt; is entered as payload</li> <li>• OPC UA - URI query corrected</li> </ul>	1.64 on request
November 3, 2022	<ul style="list-style-type: none"> <li>• DHCP - Processing of the option flags expanded</li> <li>• OPC UA - Transfer of application URI corrected</li> <li>• Config Upload - Parameter transfer corrected</li> <li>• System start - Configuration initialization optimized</li> </ul>	1.63 on request
September 26, 2022	<ul style="list-style-type: none"> <li>• Actions - up to 16 outputs on another Web-IO can be switched</li> <li>• Actions - placeholders in the HTTP payload are supported</li> <li>• Actions - for HTTP-POST without payload a content length of 0 is entered in the header</li> <li>• OPC UA - NodeID overview can be recalled</li> <li>• OPC UA - your own NodeIDs can be loaded via list</li> <li>• OPC UA - setting outputs by writing the CurrentOutputState-Nodes is possible</li> <li>• OPC UA - writing the input counters by writing the CurrentInputCounter-Nodes is possible</li> <li>• MQTT - QoS2 processing revised</li> <li>• Modbus-TCP - diagnostics querying expanded</li> <li>• Input-Counter - problems with bi-directional counting fixed</li> <li>• System - Config Upload optimized and accelerated</li> </ul> <p>Note: If, in the existing configuration, multiple outputs are used in an action, this option must be reset following an update!</p>	1.62 on request
April 5, 2022	<ul style="list-style-type: none"> <li>• Passwords - non-allowed characters are rejected</li> <li>• Firmware update: Initiating via button in the interface possible</li> <li>• Emergency access - missing login page added</li> <li>• SNMP - MIBs and OIDs expanded</li> <li>• OPC UA - Node-IDs can be modified via list upload</li> <li>• Actions - switching of multiple outputs optimized</li> </ul> <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"> <li>• HTTPS - Chunked transfer revised</li> <li>• SSL/TLS - Certificate upload now possible again</li> <li>• DHCP - IP assignment with DHCP relays adapted</li> <li>• Boot sector - Emergency access when firmware update is interrupted now revised</li> </ul> <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"> <li>• Outputs - Pulse mode revised</li> <li>• Inputs - Short pulse processing improved</li> <li>• REST - Digest authentication corrected</li> <li>• Homepage - Size of display tiles adjusted</li> <li>• My Web Page - JavaScript optimized</li> </ul>	1.52 on request
August 2, 2021	<ul style="list-style-type: none"> <li>• Actions - HTTP Request Basic Auth. revised</li> <li>• Actions - HTTP Request Digest Auth. revised</li> <li>• Actions - HTTP Request POST revised</li> <li>• Boot Up - Denial of Service by UDP flood blocked</li> </ul>	1.51 on request
May 3, 2021	<ul style="list-style-type: none"> <li>• OPC - OPC UA implemented</li> <li>• TLS - Uploading your own certificates is possible</li> <li>• Actions - REST token timeout adjusted</li> <li>• Actions - REST compatibility improved</li> <li>• Pulse Mode - Internal handling improved</li> </ul>	1.50 on request
August 12, 2020	<ul style="list-style-type: none"> <li>• SSL/TLS - TLS stack expanded with Version 1.2</li> </ul> <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"> <li>• Socket-API - counterclear - set value corrected</li> <li>• Web-API - counterclear - set value corrected</li> <li>• Web-API - Cross Origin Request expanded</li> <li>• Actions - POST added to HTTP requests</li> <li>• Actions: Token authentication possible with HTTP requests</li> </ul> <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
May 25, 2020	<ul style="list-style-type: none"> <li>• Internal processing latencies reduced</li> </ul>	1.41 on request
March 12, 2020	<ul style="list-style-type: none"> <li>• IO-LED indicator - synchronization problem after reset fixed</li> </ul>	1.40 on request
March 5, 2020	<ul style="list-style-type: none"> <li>• Actions - Cold start as trigger possible again</li> <li>• Actions - Warm start as trigger possible again</li> <li>• SNMP - Indexing problem for actions corrected</li> <li>• MQTT - SSL transmission and Client-ID introduced</li> </ul>	1.39 on request
January 7, 2020	<ul style="list-style-type: none"> <li>• Actions - Digest authentication for HTTP(S) requests revised</li> <li>• Inputs/Outputs - Filter and pulse settings adapted for new hardware drivers</li> </ul>	1.38 on request
December 12, 2019	<ul style="list-style-type: none"> <li>• Downgrade block - JSON enable included</li> <li>• MQTT - Last Will connection topic revised</li> <li>• SNMP - private authentication revised</li> <li>• Date/time - weekday calculation revised</li> <li>• Homepage - Action tiles expanded</li> <li>• Config Up/Down Load - processing accelerated (no more timeout)</li> </ul>	1.37 on request

Date	Changes and comments	Revision
December 2, 2019	<ul style="list-style-type: none"> <li>• SNMP - Time compensation for SNMPv3 corrected</li> <li>• Pulse mode - Dependencies when resetting adjusted</li> <li>• REST - Greater tolerance for upper/lower case in HTTP header fields</li> <li>• Actions - Clear message for counter monitoring added</li> <li>• Actions - Number of possible actions increased to 30</li> <li>• Actions - For HTTP(S) requests W&amp;T placeholders are accepted</li> <li>• Actions - For HTTP(S) requests greater tolerance for upper/lower case in HTTP header fields</li> <li>• User page - Problems in representing W&amp;T tags fixed</li> <li>• Memory management - used address space expanded</li> </ul>	1.36 on request
August 1, 2019	<ul style="list-style-type: none"> <li>• SNMP - Support of downward compatible OIDs improved</li> <li>• SNMP - Support up to SNMPv3</li> <li>• Configuration_Upload - Timeout behavior optimized</li> <li>• Version query expanded</li> <li>• MQTT - Ping timeout corrected</li> <li>• Device registration at W&amp;T possible</li> </ul>	1.35 on request
April 10, 2019	<ul style="list-style-type: none"> <li>• Configuration upload - port verification improved</li> <li>• Socket Api - settime command introduced</li> <li>• HTTP Api - settime command introduced</li> <li>• Date/time - internal clock calibration optimized</li> </ul>	1.33 on request
January 21, 2019	<ul style="list-style-type: none"> <li>• internal interrupt processing optimized</li> </ul>	1.32 on request
November 16, 2018	<ul style="list-style-type: none"> <li>• Web-API - Cross origin request can be configured</li> <li>• Rest - Cross original request can be configured</li> </ul>	1.31 on request
October 22, 2018	<ul style="list-style-type: none"> <li>• MQTT - uniform W&amp;T standard topics introduced</li> </ul>	1.29 on request
September 20, 2018	<ul style="list-style-type: none"> <li>• Actions - Triggering by setting counter to zero optimized</li> <li>• Actions - &lt;CR&gt; tag for line skip introduced</li> </ul>	1.27 on request
June 28, 2018	<ul style="list-style-type: none"> <li>• Box-to-Box - Signal detection at start optimized</li> <li>• SNMP - download link for MIB corrected</li> </ul>	1.24 on request
June 4, 2018	<ul style="list-style-type: none"> <li>• SNMP - OIDs from preceding model are accepted</li> <li>• BINARY Client - Server Addr. also configurable as name</li> <li>• Configuration - internal plausibility check</li> </ul>	1.23 on request
March 15, 2018	<ul style="list-style-type: none"> <li>• Actions - Use of host names instead of IP revised</li> <li>• Actions - Sending of SNMP trap texts corrected</li> <li>• Upload of large configuration files improved</li> </ul>	1.22 on request
January 26, 2018	<ul style="list-style-type: none"> <li>• MQTT - Last Will added</li> <li>• Network buffer processing optimized</li> <li>• Actions - TCP message now also permitted on localhost</li> <li>• Outputs - Resetting for pulse revised</li> </ul>	1.21 on request
September 20, 2017	<ul style="list-style-type: none"> <li>• MQTT Publish: QoS can be set</li> <li>• MQTT Publish: Retain can be set</li> <li>• SNMP: UDP ports can be set</li> <li>• Outputs: Inverting revised</li> <li>• Homepage: HTTP(S) communication optimized</li> <li>• Firmware update: internal processes optimized</li> </ul>	1.20 on request
July 20, 2017	<ul style="list-style-type: none"> <li>• Restart behavior when changing the IP parameters corrected</li> <li>• IO processing after restart revised</li> <li>• Pulse mode: Behavior after saving corrected</li> <li>• HTTPS/TLS: Processing of large data blocks optimized</li> <li>• Accuracy of the internal clock improved</li> </ul>	1.18 on request
June 28, 2017	<ul style="list-style-type: none"> <li>• MQTT: ClientID output corrected</li> <li>• MQTT: No publish without message text</li> </ul>	1.17 on request

Date	Changes and comments	Revision
June 8, 2017	<ul style="list-style-type: none"> <li>• Display of network interruptions on Home</li> <li>• Actions: Output of HTTPS requests added</li> <li>• Actions: Logic in IO combinations revised</li> <li>• Client specifications for MSL/MTU size taken into account</li> <li>• SSL network buffer management optimized</li> </ul>	1.16 on request
May 11, 2017	<ul style="list-style-type: none"> <li>• Website callup optimized</li> <li>• Parameter transfer revised</li> <li>• Pulse mode: Reset behavior corrected</li> </ul>	1.15 on request
March 20, 2017	<ul style="list-style-type: none"> <li>• Network buffer processing accelerated</li> <li>• SSL handling revised</li> <li>• Start-timeout for unused sockets</li> </ul>	1.14 on request
February 3, 2017	<ul style="list-style-type: none"> <li>• Firmware for the 0 series</li> </ul>	1.13 on request



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