

Firmware:

**Web-IO CO2****Model 57721****Current firmware**

Date	Changes and comments	Revision
January 9, 2024	<ul style="list-style-type: none"> <li>Stability improvements</li> <li>HTTP requests with token authentication optimized</li> <li>Self-signed certificate for OPC UA use optimized</li> <li>Measuring module: System start optimized</li> <li>Error fixed: Mail authentication method Auth failed</li> </ul>	<a href="#">1.69</a> <a href="#">ZIP download</a>

**Older firmware**

Date	Changes and comments	Revision
August 23, 2023	<ul style="list-style-type: none"> <li>TCP/IP stack - MTU up to max. 1500 possible</li> <li>Actions - Host name for HTTP requests in the head corrected</li> <li>HTTP(S) - POST for actions added</li> <li>Measuring module communication revised</li> </ul>	<a href="#">1.67</a> <a href="#">ZIP download</a>
January 16, 2023	<ul style="list-style-type: none"> <li>Update procedure optimized</li> <li>Fixed: Problem with file uploading for certificates fixed</li> </ul>	<a href="#">1.65</a> <a href="#">ZIP download</a>
November 8, 2022	<ul style="list-style-type: none"> <li>Input screen for mail server revised</li> <li>DHCP - Processing of the option flags expanded</li> <li>OPC UA - Transfer of application URI corrected</li> </ul>	<a href="#">1.63</a> <a href="#">ZIP download</a>
August 9, 2022	<ul style="list-style-type: none"> <li>Error fixed: Turning on the OPC UA caused permanent reset which could only be resolved by a factory reset.</li> <li>Security: Eliminating the outdated protocols TLS 1.0 and 1.1. Effective immediately only TLS 1.2 is supported.</li> </ul>	<a href="#">1.59</a> <a href="#">ZIP download</a>
July 12, 2022	<ul style="list-style-type: none"> <li>File upload optimized</li> </ul>	<a href="#">1.58</a> <a href="#">ZIP download</a>
May 4, 2022	<ul style="list-style-type: none"> <li>New: Configure measurement value compensation with up to 10 correction points per sensor via JSON file.</li> <li>Firmware update: Initiating via button in the interface possible</li> </ul>	<a href="#">1.57</a> <a href="#">ZIP download</a>
March 2, 2022	<ul style="list-style-type: none"> <li>New: Configurable NodeIDs for OPC-UA</li> <li>MQTT: Retain flags revised</li> </ul>	<a href="#">1.55</a> <a href="#">ZIP download</a>
January 20, 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>	<a href="#">1.54</a> <a href="#">ZIP download</a>
December 16, 2021	<ul style="list-style-type: none"> <li>Security updates: DHCP, DNS and ICMP services revised</li> <li>Error in SNMP output corrected</li> <li>Erroneous output in MQTT corrected</li> </ul>	<a href="#">1.53</a> <a href="#">ZIP download</a>
August 5, 2021	<ul style="list-style-type: none"> <li>Problem fixed: Wrong time stamp was entered for the first value in the data logger.</li> <li>Problem fixed: Automatic measuring module update failed in firmware version 1.50.</li> </ul>	<a href="#">1.51</a> <a href="#">ZIP download</a>
June 22, 2021	<ul style="list-style-type: none"> <li>Problems in SNMPv2/3 MIB tree fixed</li> <li>Problems in cloud communication fixed</li> </ul>	<a href="#">1.50</a> <a href="#">ZIP download</a>
May 20, 2021	<ul style="list-style-type: none"> <li>Error fixed: SNMP output with different decimal points</li> <li>Measuring module software updated and restart improved</li> </ul>	<a href="#">1.49</a> <a href="#">ZIP download</a>

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May 3, 2021	<ul style="list-style-type: none"> <li>• New: OPC UA support</li> <li>• New: Uploading of your own certificates</li> <li>• New: Subsequent delivery of historical data via MQTT</li> <li>• Error messages for MQTT connections added</li> <li>• Web-API polling revised</li> <li>• Web server error messages optimized</li> <li>• HTTP processing revised</li> <li>• REST connections revised</li> <li>• Security updates</li> </ul>	<p style="text-align: center;">1.48</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
September 15, 2020	<ul style="list-style-type: none"> <li>• Error fixed: When uploading the configuration file to the device SNMP passwords were not accepted</li> <li>• Automatic monitoring for measuring module failure added</li> <li>• Firmware update for measuring module revised</li> </ul>	<p style="text-align: center;">1.46</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
August 17, 2020	<ul style="list-style-type: none"> <li>• TLS: Problems with TLS handshake fixed</li> <li>• Factory default reset could fail</li> </ul>	<p style="text-align: center;">1.45</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
July 21, 2020	<ul style="list-style-type: none"> <li>• TLS: Support of TLS 1.2</li> <li>• Server authentication revised</li> <li>• Character coding for HTTP request message corrected</li> <li>• Detection of incomplete OPC requests implemented</li> <li>• SNMP index error when generating dynamic names corrected</li> <li>• System start optimized</li> <li>• Up-Time control for the measuring model added</li> <li>• Assignment of the device error list revised</li> </ul>	<p style="text-align: center;">1.44</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
March 2, 2020	<ul style="list-style-type: none"> <li>• Problem in OPC communication fixed</li> <li>• Problem with SNMP name indexing fixed</li> <li>• Transmission problems with sensor extension fixed</li> </ul>	<p style="text-align: center;">1.40</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
January 31, 2020	<ul style="list-style-type: none"> <li>• Network stack optimized</li> <li>• Diagnostics list corrected</li> <li>• Configuration upload accelerated</li> <li>• Addition of SSL for MQTT connections</li> <li>• MQTT Client-ID now freely configurable</li> <li>• authentication mechanism stabilized</li> <li>• OPC communication optimized</li> <li>• DHCP functionality stabilized</li> <li>• Problem fixed: Error in device interface</li> <li>• Problem fixed: Error in SNMPv3 authentication</li> <li>• Problem fixed: Error in timed alarms when time is entered manually</li> <li>• Problem fixed: Error in MQTT authentication</li> </ul>	<p style="text-align: center;">1.39</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
November 28, 2019	<ul style="list-style-type: none"> <li>• Problem fixed: Zoom error in visualization</li> </ul>	<p style="text-align: center;">1.36</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
September 30, 2019	<ul style="list-style-type: none"> <li>• MQTT topics may now contain W&amp;T tags</li> <li>• Passwords can now be set by uploading the configuration file.</li> <li>• Problem fixed: After removing the sensor the last measured values remain available.</li> <li>• Problem in SNMPv3 could have caused a "NotInTimeWindow" error.</li> <li>• Problem with REST Digest Authentication fixed.</li> </ul>	<p style="text-align: center;">1.35</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>
August 6, 2019	<ul style="list-style-type: none"> <li>• Problems with factory default reset fixed.</li> <li>• Problems with MQTT ping interval fixed.</li> <li>• Problem fixed: MQTT Retain Flag was sometimes not set.</li> <li>• Problem fixed: Alarm Clear message with an Index &gt; 12 alarms was incorrectly sent.</li> <li>• Problems with SNMPv3 module type detection fixed.</li> <li>• Possible problems with software reset fixed.</li> <li>• Possible calculation error with negative numbers fixed.</li> <li>• Possible log in problems when using certain mail server fixed.</li> <li>• Fall-back system for ensuring configuration integrity after firmware update improved.</li> <li>• MQTT standard paths added.</li> <li>• Device registration reserved only for the administrator user.</li> </ul>	<p style="text-align: center;">1.34</p> <p style="text-align: center;"><a href="#">ZIP download</a></p>

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May 6, 2019	<ul style="list-style-type: none"> <li>Fixed: Uploading of large configuration files failed.</li> <li>Fixed: TCP client message was sometimes not initiated.</li> <li>Fixed: Error in SSL stack eliminated.</li> <li>Script components updated</li> </ul>	<a href="#">1.32</a> <a href="#">ZIP download</a>
March 26, 2019	<ul style="list-style-type: none"> <li>New: Supports Modbus-TCP for measurement value polling</li> <li>New: Supports SNMPv2c and SNMPv3</li> <li>Problem with zoom function fixed.</li> <li>Fixed: No display of measurement values when using replaceable tags in HTTP request message.</li> <li>Fixed: Units not output when sensor turned off.</li> <li>Fixed: Restart after software reset was able to be interrupted.</li> </ul>	<a href="#">1.31</a> <a href="#">ZIP download</a>
December 13, 2018	<ul style="list-style-type: none"> <li>Cloud communication optimized.</li> <li>FTP data output optimized.</li> <li>WuTility inventorying problem fixed.</li> <li>Problem fixed: Interval selection for data retention output was not accounted for.</li> <li>Problem fixed: MQTT connection opening after closing the connection was not reinitiated.</li> <li>Problem fixed: Value output in visualization failed if sensor names included special characters.</li> <li>Web-API - Cross Origin Request can be configured.</li> <li>Rest - Cross Origin Request can be configured.</li> </ul>	<a href="#">1.30</a> <a href="#">ZIP download</a>
August 30, 2018	<ul style="list-style-type: none"> <li>Problem fixed: Output problems with CSV logger file fixed.</li> <li>Problem fixed: Special characters in device visualization were not correctly processed.</li> <li>Problem fixed: Text fields for server addresses were too short for alphanumeric entries.</li> <li>Problem fixed: SNMP system messages were not sent.</li> </ul>	<a href="#">1.27</a> <a href="#">ZIP download</a>
May 8, 2018	<ul style="list-style-type: none"> <li>First firmware version</li> </ul>	<a href="#">1.22</a> <a href="#">ZIP download</a>



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