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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 Thermometer Relay
Model 57716

Current firmware

Date	Changes and comments	Revision
January 9, 2024	- Stability improvements - HTTP requests with token authentication optimized - Self-signed certificate for OPC UA use optimized - Measuring module: System start optimized - Error fixed: Mail authentication method Auth failed Please be sure the device has at least Version 1.08 before the update!	1.69 ZIP download

Older firmware

Date	Changes and comments	Revision
August 23, 2023	- TCP/IP stack - MTU up to max. 1500 possible - Actions - Host name for HTTP requests in the head corrected - HTTP(S) - POST for actions added Please be sure the device has at least Version 1.08 before the update!	1.67 ZIP download
January 16, 2023	- Update procedure optimized - Fixed: Problem with file uploading for certificates fixed Please be sure the device has at least Version 1.08 before the update!	1.65 ZIP download
November 8, 2022	- Input screen for mail server revised - DHCP - Processing of the option flags expanded - OPC UA - Transfer of application URI corrected Please be sure the device has at least Version 1.08 before the update!	1.63 ZIP download
August 9, 2022	- Error fixed: Turning on the OPC UA caused permanent reset which could only be resolved by a factory reset. - Error fixed: The output status was not correctly displayed on the user page. - Security: Eliminating the outdated protocols TLS 1.0 and 1.1. Effective immediately only TLS 1.2 is supported. Please be sure the device has at least Version 1.08 before the update!	1.59 ZIP download
July 12, 2022	File upload optimized Please be sure the device has at least Version 1.08 before the update!	1.58 ZIP download
May 4, 2022	- New: Configure measurement value compensation with up to 10 correction points per sensor via JSON file. - Firmware update: Initiating via button in the interface possible Please be sure the device has at least Version 1.08 before the update!	1.57 ZIP download
March 2, 2022	- New: Configurable NodeIDs for OPC-UA - MQTT: Retain flags revised Please be sure the device has at least Version 1.08 before the update!	1.55 ZIP download

Date	Changes and comments	Revision
January 20, 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 be sure the device has at least Version 1.08 before the update!	1.54 ZIP download
December 16, 2021	- Security updates: DHCP, DNS and ICMP services revised - Error in SNMP output corrected - Erroneous output in MQTT corrected Please be sure the device has at least Version 1.08 before the update!	1.53 ZIP download
August 5, 2021	Problem fixed: Wrong time stamp was entered for the first value in the data logger. Please be sure the device has at least Version 1.08 before the update!	1.51 ZIP download
June 22, 2021	- Problems in SNMPv2/3 MIB tree fixed - Problems in cloud communication fixed Please be sure the device has at least Version 1.08 before the update!	1.50 ZIP download
May 20, 2021	- Error fixed: SNMP output with different decimal points - Measuring module software updated and restart improved Please be sure the device has at least Version 1.08 before the update!	1.49 ZIP download
May 3, 2021	- New: OPC UA support - New: Uploading of your own certificates - New: Subsequent delivery of historical data via MQTT - Error messages for MQTT connections added - Web-API polling revised - Web server error messages optimized - HTTP processing revised - REST connections revised - Security updates Please be sure the device has at least Version 1.08 before the update!	1.48 ZIP download
September 15, 2020	- Error fixed: When uploading the configuration file to the device SNMP passwords were not accepted - Automatic monitoring for measuring module failure added - Firmware update for measuring module revised Please be sure the device has at least Version 1.08 before the update!	1.46 ZIP download
August 17, 2020	- TLS: Problems with TLS handshake fixed - Factory default reset could fail Please be sure the device has at least Version 1.08 before the update!	1.45 ZIP download
July 21, 2020	- TLS: Support of TLS 1.2 - Server authentication revised - Character coding for HTTP request message corrected - Detection of incomplete OPC requests implemented - SNMP index error when generating dynamic names corrected - System start optimized - Up-Time control for the measuring model added - Assignment of the device error list revised Please be sure the device has at least Version 1.08 before the update!	1.44 ZIP download

Date	Changes and comments	Revision
March 2, 2020	- Problem in OPC communication fixed - Problem with SNMP name indexing fixed - Problem with timer alarm without link fixed Please be sure the device has at least Version 1.08 before the update!	1.40 ZIP download
January 31, 2020	- Network stack optimized - Diagnostics list corrected - Configuration upload accelerated - Addition of SSL for MQTT connections - MQTT Client-ID now freely configurable - authentication mechanism stabilized - OPC communication optimized - DHCP functionality stabilized - Problem fixed: Error in device interface - Problem fixed: Error in SNMPv3 authentication - Problem fixed: Error in timed alarms when time is entered manually - Problem fixed: Error in MQTT authentication Please be sure the device has at least Version 1.08 before the update!	1.39 ZIP download
November 28, 2019	Problem fixed: Zoom error in visualization Please be sure the device has at least Version 1.08 before the update!	1.36 ZIP download
September 30, 2019	- MQTT topics may now contain W&T tags - Passwords can now be set by uploading the configuration file. - Problem in SNMPv3 could have caused a "NotInTimeWindow" error. - Problem with REST Digest Authentication fixed. Please be sure the device has at least Version 1.08 before the update!	1.35 ZIP download
August 6, 2019	- Problems with factory default reset fixed. - Problems with MQTT ping interval fixed. - Problem fixed: MQTT Retain Flag was sometimes not set. - Problem fixed: Alarm Clear message with an Index > 12 alarms was incorrectly sent. - Problems with SNMPv3 module type detection fixed. - Possible problems with software reset fixed. - Possible calculation error with negative numbers fixed. - Possible log in problems when using certain mail server fixed. - Fall-back system for ensuring configuration integrity after firmware update improved. - MQTT standard paths added. - Device registration reserved only for the administrator user. Please be sure the device has at least Version 1.08 before the update!	1.34 ZIP download
May 6, 2019	- Fixed: Uploading of large configuration files failed. - Fixed: TCP client message was sometimes not initiated. - Fixed: Error in SSL stack eliminated. - Script components updated Please be sure the device has at least Version 1.08 before the update!	1.32 ZIP download
March 26, 2019	- New: Supports Modbus-TCP for measurement value polling - New: Supports SNMPv2c and SNMPv3 - Problem with zoom function fixed. - Fixed: No display of measurement values when using replaceable tags in HTTP request message. - Fixed: Units not output when sensor turned off. - Fixed: Restart after software reset was able to be interrupted. Please be sure the device has at least Version 1.08 before the update!	1.31 ZIP download

Date	Changes and comments	Revision
December 13, 2018	• Cloud communication optimized. • FTP data output optimized. • WuTility inventorying problem fixed. • Problem fixed: Interval selection for data retention output was not accounted for. • Problem fixed: MQTT connection opening after closing the connection was not reinitiated. • Problem fixed: Value output in visualization failed if sensor names included special characters. • Web-API - Cross Origin Request can be configured. • Rest - Cross Origin Request can be configured. Please be sure the device has at least Version 1.08 before the update!	1.30 ZIP download
May 30, 2018	• Problem fixed: Output problems with CSV logger file fixed. • Problem fixed: Special characters in device visualization were not correctly processed. • Problem fixed: Text fields for server addresses were too short for alphanumeric entries. • Problem fixed: SNMP system messages were not sent. Please be sure the device has at least Version 1.08 before the update!	1.27 ZIP download
May 8, 2018	• Problem fixed: A "Sensor lost" message was not triggered for certain configuration constellations. Please be sure the device has at least Version 1.08 before the update!	1.22 ZIP download
March 6, 2018	• Problems with MQTT data transfer fixed • TCP client handling revised • W&T cloud data transmission optimized • Problem fixed: SNMP trap texts were not output	1.20 ZIP download
December 14, 2017	• MQTT Publish: QoS can be set • MQTT Publish: Retain can be set • MQTT Publish: Last Will can be set • MQTT Publish: Message can be set for Connect • Measurement value transmission to W&T cloud revised • Functionality change: New passwords may not contain '&'	1.16 ZIP download
November 29, 2017	• Problems with TLS connection fixed • Problems in saving the DNS server fixed • Fixed: Output problem that could occur if not all sensors were selected for data logging • Problem when changing from DHCP to static IP address fixed • Certificate problem with HTTPS connections in Chrome browser fixed	1.15 ZIP download
July 7, 2017	• Error in cloud access fixed	1.14 ZIP download
June 28, 2017	• Error fixes for the serial emergency access • Configuration up/download limited to Administrator level users • Speed optimizations for browser communication • Errors in color selection fields fixed • Error in internal matching of network settings and system ports fixed • DHCP client revised • MTU error in TCP stack fixed • MQTT: Unique Client-ID for connection opening added • MQTT: Messages without topic and message text prevented	1.13 ZIP download

Date	Changes and comments	Revision
March 20, 2017	• New: Web access via encrypted **HTTPS**- Connection added • New: Test message revision. The selected reporting path is triggered exactly once. No reset. • New: Data sending via **MQTT** added. • New: Access via **REST** added. • New: All system and service ports can be changed/turned off separately. • New: Introduction of the port list for the overview of open and closed network ports. • New: Reverse function for monitoring the area within the alarm limits added. • New: Function for hiding the menu tree added. • New: Introduction of Web-API and socket-API for separating the access ports for measurement value query. • Problem with "Sensor lost" message fixed. No sensor was able to be selected. • Data transmission rate and device performance improved. **Note!** When downgrading to version 1.12 you will then have to perform a reset to factory default settings using the internal jumper. If you are querying this device using socket commands (e.g. GET /Single) or HTTP requests, please note the following changes implemented in firmware V1.12 and higher. Due to the incremental introduction of a modern security concept into the device software, it is in this exceptional case unfortunately not possible to offer 100% compatibility with previous firmware versions. Use of the query commands, without a preceding HTTP header, is now implemented using two separate services: • **Socket-API:** Query commands without preceding HTTP header • **Web-API:** Query commands as HTTP request with preceding HTTP header To make these services configurable independently of each other and capable of being turned off individually, various network ports are necessary. Whereas use of the **Web-API** remains as before on the configured **HTTP port**, now for the **socket-API** the (configurable) **port 42280 is** preset. **Use of both services on the same port as used to be the case is now no longer possible. These two query services are disabled by default in firmware V1.12 and higher.** If your application queries the device using HTTP requests, create the function as follows: Enable in the menu under **Communication paths >> Web-API >> Allow HTTP requests >> enabled** If your application queries the device using a socket command, create the function as follows: Enable in the menu under **Communication paths >> Socket-API >> TCP ASCII-Sockets >> enabled** Note that you must also change the TCP port used to the port configured here (Default: 42280) in your application. If this is not possible, you can also change the HTTP port in the device network settings so that port 80 can be used for the socket API. Due to replacement of script files, problems with display of the homepage can occur after the update. To resolve this you must simply **clear your browser cache** and **reload the page**.	1.12 ZIP download
September 15, 2016	• Problem with the select box for selecting mail encryption fixed. • Problem with access via UDP fixed. • Visual corrections in the configuration menu • Spelling mistakes corrected Due to replacement of script files, problems with display of the homepage can occur after the update. To resolve this you must simply **clear your browser cache** and **reload the page**.	1.09 ZIP download

Date	Changes and comments	Revision
July 5, 2016	• Fixed: DHCP, incorrect display of the lease time corrected • Fixed: DHCP, requests were sometimes sent with the wrong checksum • Fixed: Display of the temperature in Fahrenheit and Kelvin corrected • Fixed: Deleting your own Web page when updating firmware prevented • Fixed: Output error in your own Web page corrected • Fixed: Correct function of the relay output provided • Upload button for Web pages removed (function is part of the Apply button) • Info icon exchanged • Mail authentication is now selected using a select box Due to replacement of script files, problems with display of the homepage can occur after the update. To resolve this you must simply **clear your browser cache** and **reload the page**.	1.08 ZIP download
March 16, 2016	• First firmware version	1.07 ZIP download

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