

Data sheet:

Web Thermometer Relay



Article no.: 57716

This article has been replaced by the successor model #57726.

Measure, log and switch...

The Web-Thermometer is a measuring instrument which detects [temperatures](#) and makes the values available in the network. When a limit is exceeded a [digital relay output](#) can be switched. The device includes an integrated data logger and numerous Web and network services for manual querying of the measurements, or autonomous sending of messages.

Properties

Sensor:

- **Pt100 temperature sensor:**
 - Measuring range of W&T probe: -50°C...180°C
 - Measuring input: -200°C...650°C

Connectivity:

- Digital **semiconductor relay output**
- **Monitor temperatures and trends from a browser**
- **Alarm and reporting function:**
 - E mail for alarm or as reporting function
 - SNMP polling / alarm traps
 - Configure up to 12 alarm messages
- **Dynamic integration into other Web sites:**
 - Direct access to current measurement values, e.g. JavaScript (AJAX).
- **Current Industry 4.0 protocols:**
 - REST and [MQTT](#) support
- **Additional software interfaces for incorporating into your systems/databases:**
 - SNMPv1, SNMPv2c, SNMPv3
 - Modbus-TCP
 - OPC server
 - Syslog
 - Sensobase (database integration via ODBC)
 - TCP and UDP sockets, client and server
 - FTP (data logging)
- **Possible applications:**
 - Monitor temperatures in the server room, network cabinet or office
 - Integrated semiconductor relay turns connected devices on and off
 - Logging of measurements via FTP, Excel file, email attachment and internal memory
 - Green IT: Monitor efficiency of the server room climate control

Data logger:

- **Internal data logger**
 - Memory capacity: min. 16 weeks, max. 20 years
 - Save frequency: 15, 30 sec, 1, 5, 15, 60 min
- **Document measurement data online in the [W&T Cloud](#) and access** from anywhere in the world

- **Internal clock**
 - Time synchronization via time server calibration
 - Battery-backed device clock

Standards & more

- optional: **ISO factory calibration** per DIN EN ISO/IEC 17025
 - with calibration certificate for verified documentation of the measured value deviations
 - Valid for 12 months
- optional: **DAkKS/DKD calibration** per DIN EN ISO/IEC 17025
 - with calibration certificate for verified traceability to national standards
 - Valid for 12 months
- **Supply voltage via Power-over-Ethernet (PoE)**
 - Phantom power using data pairs
 - Power over unused wire pairs
 - External power supply is an alternative
- **Conforms to standards both in office and industrial environments:**
 - High noise resistance per EN 61000-6-2
 - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

♥ Wish for something!
[Your suggestions for improvement and additions](#)

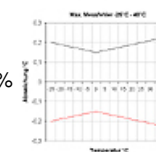
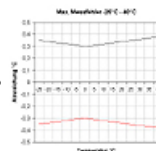
Technical data

Connections:

Temperature sensor:	Pt100 Screw terminal for Pt100/Pt1000 Cable length: 2m (can be extended as needed)
Digital output:	Semiconductor relay
Network:	10/100BaseT autosensing IPv6 on request
Galvanic isolation:	Measurement inputs to network: min. 500V
Supply voltage:	Power-over-Ethernet or 12-48V DC (+/-10%) or 18Veff-30Veff AC (+/-10%) via screw terminal
Current consumption:	typ. 62mA @24VDC, 80mA @20VAC max. 70mA @24VDC, 40mA @48VDC PoE Class 1 (0.44 - 3.84W)

Measuring unit:

Sensor:	Pt100/Pt1000 connection, 2-, 3- or 4-wire
Measuring range:	W&T sensor: -50°C...180°C PT100/PT1000 measuring input: -200°C...650°C
Resolution:	1/10°C
Measuring error:	
Measuring unit	±0.3°C, ±0.2%
PT100/1000 Sensor Class A	±0.15°C, ±0.2%
Storage frequency:	15, 30 sec., 1, 5, 15, 60 min
Memory depth (6MB):	min. 16 weeks, max. 20 years
Deviation of the internal clock:	max. 1 min. / month
Measuring frequency:	4 seconds



semiconductor relay output

Digital output: 1 potential-free contact, semiconductor relay
max. switching current: typ. 300mA AC/DC (peak 500mA)
max. switching voltage: 39V AC/DC
max. switching capacity: 11.7W AC/DC

Housing and other data:

Housing: Plastic compact housing for top-hat rail mount
105x22x75mm (LxWxH)
Enclosure rating: IP20
Weight: approx. 200g
Ambient storage temperature: -40..+70°C
Ambient operating temperature: 0 .. +60°C
Scope of delivery: 1x Web-Thermometer Relay for DIN rail mounting
1x Pt100 sensor
1x Quick Guide
1x product CD with WuTility management tool, OPC server, SNMP-MIB,
reference manual German/English



We are available to you in person:

Wiesemann & Theis GmbH
Porschestra. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

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