W&T Wiesemann & Theis GmbH

www.WuT.de Networking, sensors and interface technology for industry, office and IT

Data sheet:

Web Thermometer 1x Pt100 / Pt1000

Article no.: 57725

This article has been replaced by model #57125.

Measure, log and report...

The Web Thermometer is a measuring device which monitors temperatures and makes the values available in the network. The device includes an integrated data logger and numerous Web and network services for manual querying of the measurements or provides 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:

- **Intuitive Web interface** for simpler configuration
- **Monitor temperatures and trends from a browser**
- **Alarm and reporting function:**
  - E-mail for alarm or reporting functions
  - 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:**
  - OPC UA, REST and MQTT support
- **Additional software interfaces for incorporating into your systems/databases:**
  - SNMPv1, SNMPv2c, SNMPv3
  - Modbus-TCP
  - OPC UA, OPC DA
  - 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
  - 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**

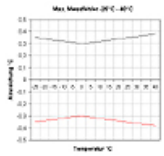
Wish for something!
Your suggestions for improvement and additions

Technical data

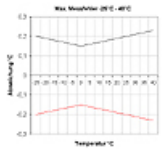
Connections and displays:

Temperature sensor:	Pt100/Pt1000 measuring input Cable length for W&T probe: 2m (can be extended as needed) Enclosure rating: IP67
Temperature input:	8-pin terminal block Conductor cross-section 0.2-1.3mm² Stripped length 6-8mm
Network:	10/100BaseT Autosensing/Auto-MDIX RJ45 IPv6 on request
Galvanic isolation:	Network connection min. 1500 V
Power supply:	Power-over-Ethernet (PoE) or DC 12V .. 48V (+/-10%) or AC 18Veff .. 30Veff (+/-10%)
Supply connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Current consumption:	PoE Class 1 (0.44 - 3.84W) typ. 62mA @24VDC, 80mA @20VAC, max. 70mA @24VDC, 40mA @48VDC
Indicators:	1 LED power 2 LEDs network status 4 LEDs status and error

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
Maximum measuring error:	
Measuring unit	±0.3°C, ±0.2% 

±0.15°C, ±0.2%



PT100/1000 Sensor Class A	
Measuring frequency:	4 seconds
Storage frequency:	15s, 30s, 1m, 5m, 15m, 60m
Memory depth (4MB):	min. 16 weeks, max. 20 years

Housing and other data:

Housing:	Plastic compact housing for top-hat rail mount 105x22x75mm (LxWxH)
Enclosure rating:	IP20
Weight:	approx. 200g
Ambient temperature	Storage: -40..+70°C Operating: Non-contiguous mounting: 0 .. +60°C contiguous mounting: 0 .. +50°C
Permissible relative humidity:	0..95% RH (non-condensing)
Ambient operating temperature:	0 .. +60°C
Scope of delivery:	1x Web-Thermometer Pt100/Pt1000 1x Pt100 sensor, 2m, IP67 1x Quick Guide

Accessories

*Net unit price for commercial users

Power supplies

Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00 €
Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00 €
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00 €

Storage and Visualization

rule.box hub	55920	598.00 €
logic.hub	50506	598.00 €

Measuring - Accessories

Pt-100 external probe, class B, 4-wire, IP65 housing (This outdoor sensor cannot be calibrated)	57014	54.00 €
Tube contact probe Pt100, Class A, 2m cable, pigtail cable ends	57040	29.00 €
Tube contact probe Pt100, Class A, 5m cable, pigtail cable ends	57041	39.00 €
ISO factory calibration, 1x 3 temperature points for complete device with calibration certificate, valid for 12 months Delivery time approx. 10-14 days (This article cannot be ordered as a sample.)	57013	218.00 €
Accredited DAkkS/DKD calibration, 1x 3 temperature points for complete device with calibration certificate, valid for 12 months Delivery time approx. 10-14 days (This article cannot be ordered as a sample.)	57029	328.00 €

Mechanical Accessories

Mounting bracket for wall mounting	58812	11.20 €
19" DIN rail	58813	21.00 €

Supplementary network products

Ethernet Switch Gigabit Industry, 4 Ports	55614	148.00 €

Software

WuTility	00104	free
OPC Server	00103	free
Sensobase®	00107	free
Web-IO2Go (app for iOS)	57700	free

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

Secure connection:

Allianz für Cyber-Sicherheit Teilnehmer

VDE CERT

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