Data sheet:

Web Thermometer Relay

Article no.: 57726

EUR 398.00

*Net price for commercial users

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 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
  - 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 using 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**

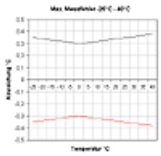
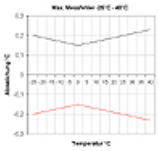
Wish for something!
Your suggestions for improvement and additions

Technical data

Connections:

Temperature sensor:	1x Pt100/Pt1000 measuring input Cable length for W&T probe: 2m (can be extended as needed) Enclosure rating: IP67
Digital output:	Semiconductor relay
Relay output:	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
Supply voltage:	Power-over-Ethernet (PoE) or DC 12V .. 48V (+/-10%)
Current consumption:	PoE Class 1 (0.44 - 3.84W) typ. 70mA @ 24V DC with external supply

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, 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

Motherbox 3	50504	328.00€

Measuring - Accessories

Pt-100 external probe, class B, 4-wire, IP65 housing (This outdoor sensor cannot be calibrated)	57014	54.00€
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€

Further accessories

230V coupling relay - 1 x changeover for DIN rail mount	57015	22.00€
230V coupling relay - 2 x changeover for DIN rail mount	57016	22.00€

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.

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