

Data sheet:

## Web-Thermograph Relay



Article no.: 57616

This article has been replaced by the expanded successor model [Web Thermometer Relay](#).

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Measure, log and switch...

The Web-Thermograph Relay is a measuring device that 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 curves with your browser**
- **Alarm and reporting function:**
  - E-mail for alarm or reporting functions
  - SNMP polling / alarm traps
  - Up to 8 alarm messages can be configured
- **Dynamic integration into other Web sites:**
  - Direct access to current measurement values via AJAX, JavaScript and Java applet
- **Additional software interfaces for incorporating into your systems/databases:**
  - 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
  - Direct display of multiple measuring points in the browser via Java applet
  - 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 size: min. 28 weeks, max. 20 years
  - Save frequency: 15s, 30s, 1m, 5m, 15m, 60m
- **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

- **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:**

- o High noise resistance for industrial environments
- o Low noise emission for residential and business areas
- 5 year guarantee

## Technical data

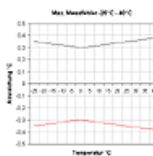
### Connections and displays:

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 (PoE) or via screw terminal with DC 18V .. 48V (+/-10%) or AC 18Veff .. 30Veff (+/-10%)
Power consumption:	AVG: 80mA @24VDC, 110mA @18VAC Max: 90mA @24VDC, 50mA @48VDC PoE Class 1 (0.44 - 3.84W)
Displays:	1 LED Power 4 LEDs Status and Error 1 LED Relay Status

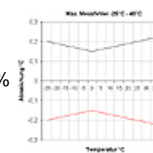
### Measuring unit:

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  $\pm 0.3^\circ\text{C}$ ,  $\pm 0.2\%$



PT100/1000 Sensor Class A  $\pm 0.15^\circ\text{C}$ ,  $\pm 0.2\%$



Storage frequency:	15, 30 sec., 1, 5, 15, 60 min
Memory depth (6MB):	min. 28 weeks, max. 99 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:	AVG 300mA AC/DC (peak 500mA)
max. switching voltage:	39V AC/DC
max. switching capacity:	11.7W AC/DC

### Housing and other data:

E-mail function:	Mail for sending alarms or as reporting function
Housing:	Plastic compact housing, 105x75x22mm
Weight:	approx. 200g
Ambient storage temperature:	-40..+70°C
Ambient operating temperature:	0 .. +60°C
Scope of delivery:	1x Web-Thermograph Relay for DIN rail mounting 1x Pt100 sensor

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