

Data sheet:

Web-Thermo-Hygrometer



Article no.: 57720

This article has been replaced by model #57120.

Measure, log and report...

The Web-Thermo-Hygrometer is an instrument that measures [temperatures](#) and [relative humidity](#) 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:

- **Temperature sensor:**
 - Measuring range: -40°C...85°C
- **Relative humidity sensor:**
 - Measuring range 0..100% RH, permissible ambient: 0..95% (non-condensing)

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
 - dew point measurement, climate monitoring
 - Green IT: Monitor efficiency of the server room climate control

Data logger:

- **Internal data logger**
 - Memory size: min. 12 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

- 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:

Combined sensor:	Temperature and relative humidity measurement DB9 receptacle Cable length: 2m (can be extended to max. 20m)
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%) 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
Displays:	1 LED Power 2 LEDs Network Status 4 LEDs Status and Error

Measuring unit:

Measuring range:	-40°C...85°C, 0..100% rh
Resolution:	1/10 °C, 1/10% rH
Display variables:	°Celsius, °Fahrenheit, °Kelvin, %relative humidity, abs. humidity g/m³, dew point °C, mixing ratio g/kg, enthalpy kJ/kg
Measuring error:	Temperature: typ. @ 25°C ±0.3°C max. @ -40..85°C ±1.5°C Relative humidity: typ. @ -20..60°C (normal range) ±1.8%rH (10-90%rH) max. @ -20..60°C (normal range) ±4%rH (0-100%rH) temporary @ -40..85°C (max range) +3%rH nach 60h Operation outside normal range Long-term stability typ. <0.5%rH / year

Measuring frequency: 4s
Storage frequency: 15s, 30s, 1m, 5m, 15m, 60m
Memory depth (4MB): min. 12 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)
MTBF: 380,248 h @25°C per MIL-HDBK-217
Scope of delivery: 1x Web-Thermo-Hygrometer
1x W&T SENSOR, 2m (temperature, relative humidity)
1x Quick Guide

Secure connection:



We are available to you in person:

W&T

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