

Data sheet:

Web-Thermo-Hygrometer



Article no.: 57720

EUR 398.00

*Net price for commercial users

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/m ³ , 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

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€
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Measuring - Accessories

Replacement sensor for 57720/57620 (device version prior to December 2018) Initial calibration of this article only with complete unit.	57025	168.00€
Replacement sensor for 57720 (Device version December 2018 and later) Initial calibration of this article only with complete unit.	57037	168.00€
Retrofit with sintered cap for 57713/57720/57613/57620	57021	22.00€
ISO factory calibration (temp. and humidity) for complete device with calibration certificate, valid for 12 months Delivery time approx. 10-14 days (This article cannot be ordered as a sample.)	57012	218.00€

Accredited DAkkS/DKD calibration (temp. and humidity) for complete device [57027](#) 328.00€
with calibration certificate, valid for 12 months
Delivery time approx. 10-14 days
(This article cannot be ordered as a sample.)

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€
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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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