

Data sheet:

## Web-Thermo-Hygrobarometer



Article no.: 57713

EUR 438.00

\*Net price for commercial users

### Measure, log and report...

The Web-Thermo-Hygrobarometer is an instrument that measures [temperatures](#), [relative humidity](#) and [air pressure](#) 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:**
  - Measure range: -40°C...85°C
- **Relative humidity sensor:**
  - Measuring range 0..100% RH, permissible ambient: 0..95% (non-condensing)
- **Air pressure sensor:**
  - Measuring range 10-1100 hPa

#### 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. 7 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](#)

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## Technical data

### Connections and displays:

Combined sensor:	Temperature, relative humidity and air pressure measurement DB9 receptacle Cable length: 2m (can be extended to max. 20m)
Network:	10/100BaseT Autosensing/Auto-MDIX RJ45 <a href="#">IPv6 on request</a>
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
Displays:	1 LED Power 2 LEDs Network Status 4 LEDs Status and Error

### Measuring unit:

Measuring range:	-40°C...85°C, 0..100% rF, 10-1100 hPa
Resolution:	1/10 °C, 1/10% rF, 0.1 hPa
Display variables:	°Celsius, °Fahrenheit, °Kelvin, %relative humidity, abs. humidity g/m³, dew point °C, barometric pressure mBar, hPa, 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 after 60h of operation outside normal range Long-term stability typ. <0.5%rH / year
	Atmospheric pressure: typ. @ 25°C ±0.8hPa (750..1100hPa) max. @ 25°C ±2.5hPa (750..1100hPa) max. @ -40..85°C: ±3.5hPa (300..1100hPa) Long-term stability: typ. -1hPa / year
Measuring frequency:	4s
Storage frequency:	15s, 30s, 1m, 5m, 15m, 60m
Memory depth (4MB):	min. 7 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)
Scope of delivery:	1x Web-Thermo-Hygrobarometer 1x W&T sensor, 2m (temperature, relative humidity and barometric pressure) 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 57713 (Device version December 2018 and later) Initial calibration of this article only with complete unit.	57036	218.00€
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€

ISO factory calibration (temp., humidity, air pressure) for complete device 57017 438.00€  
with calibration certificate, valid for 12 months  
Delivery time approx. 10-14 days  
(This article cannot be ordered as a sample.)

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.)

Accredited DAkkS/DKD calibration (temp., humidity, air pressure) for complete device with calibration certificate, valid for 12 months 57028 538.00€  
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€

### **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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