

Data sheet:

Web-Thermometer Air Quality



Article no.: 57728

This article has been replaced by model **#57721**.

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Monitor air quality

On-demand ventilation control in office buildings, schools, education and centers and sports facilities often involve measurement of CO₂. But a drawback of CO₂ measurement is that odors caused by VOC are not detected, since they have only a slight effect on the CO₂ measurements.

Even though there is an actual ventilation need, this condition is not detected using traditional technology. With this VOC measuring instrument the room air quality can be determined based on human perception.

[More information on VOC can be found here](#)

Properties

Sensor:

- **Temperature sensor:**
 - Measuring range: -40°C...85°C
- **Relative humidity sensor:**
 - Measuring range 0..100% RH, permissible ambient: 0..95% (non-condensing)
- **Air quality sensor:**
 - Measuring range: 0..60,000 ppb TVOC

Connectivity:

- **Configurable LED tower** on sensor for optical indication of limit values
- **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:**
 - REST and MQTT support
- **Additional software interfaces for incorporating into your systems/databases:**
 - SNMPv1, SNMPv2c, SNMPv3
 - Modbus-TCP
 - 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
 - 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 capacity: 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 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 and displays:

Combined sensor:	Temperature, relative humidity, air quality measurement DB9 receptacle Cable length: 2m (can be extended to max. 7m)
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%)
Supply connection:	Plug-in screw terminal, 5.08mm spacing Labeled "L+" and "M"
Current consumption:	PoE Class 1 (0.44 - 3.84W) typ. 60mA @24V DC with external supply
Indicators:	1 LED power 2 LEDs network status 4 LEDs status and error 3 LEDs traffic-light display in sensor

Measuring unit:

Measuring range:	0°C..85°C, 5..95% RH, 0-60,000 ppb TVOC
Resolution:	1/10 °C, 1/10% RH, 1/10 ppb TVOC
Display variables:	°Celsius, °Fahrenheit, °Kelvin, %relative humidity, abs. humidity g/m³, dew point °C, mixing ratio g/kg, enthalpy kJ/kg
Air quality sensor:	TVOC based on ethanol
Measuring error:	Temperature: typ. @ 25°C ±0.3°C max. @ 0..50°C ±0.7°C Long-term stability: typ. <0.03°C / year Relative humidity: typ. @ 25°C ±2% RH max. @ 0..50°C ±4% RH (0-100% RH) Long-term stability: typ. <0.25% RH / year Air quality: typ. @ 25°C ±15% of the measured value max. ±40% of the measured value Long-term stability: typ. <1.3% of the measured value
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-Thermometer Air Quality for DIN rail mounting
1x W&T sensor, 2m (temperature/humidity & TVOC)
1x Quick Guide



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