

#### 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
  - Direct display of multiple measuring points in the browser via Java applet
  - 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 for industrial environments
  - Low noise emission for residential and business areas
- **5 year guarantee**

Wish for something!

[Your suggestions for improvement and additions](#)

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#### 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/m<sup>3</sup>, 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