

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](#)

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