

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:**
 - 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 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 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 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/m³, 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)
- Scope of delivery:
 - 1x Web-Thermo-Hygrometer
 - 1x W&T SENSOR, 2m (temperature, relative humidity)
 - 1x Quick Guide