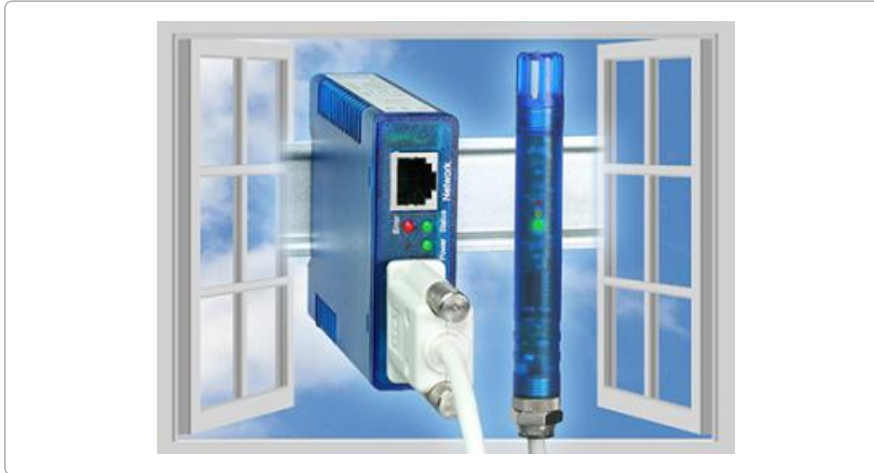


Data sheet:

Web-Graph Air Quality



Article no.: 57618

This article has been replaced by the expanded successor model [Web-Thermometer 57718](#).

Contact
Product overview
Manual
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Monitor temperatures, relative humidity and 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: 0°C...50°C
- **Relative humidity sensor:**
 - Measuring range 5..95% RH, permissible ambient 0..95% (non-condensing)
- **Air quality sensor:**
 - Measuring range 450..2000ppm VOC as CO₂ equivalent

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
 - Up to 8 alarm messages can be configured
- **Dynamic integration into other Web sites:**
 - Direct access to current measurement values via AJAX, JavaScript and Java applet
- **Additional software interfaces for incorporating into your systems/databases:**
 - 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
 - Dewpoint measurement, climate monitoring
 - Green IT: Monitor efficiency of the server room climate control

Data logger:

- **Internal data logger**
 - Memory size: min. 10 weeks, max. 8 years
 - Save frequency: 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

Standards & more

- **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**

Technical data

Connections and displays:

Combined sensor:	Temperature, relative humidity, air quality measurement DB9 receptacle Cable length: 2m (can be extended to max. 20m)
Network:	10/100BaseT autosensing IPv6 on request
Electrical isolation:	Measurement inputs to network: min. 500 volts
Power supply:	Power-over-Ethernet (PoE) or via screw terminal with DC 18V .. 48V (+/-10%) or AC 18Veff .. 30Veff (+/-10%)
Current consumption:	AVG: 80mA @24VDC, 100mA @20VAC Max: 90mA @24VDC, 50mA @48VDC PoE Class 1 (0.44 - 3.84W)
Displays:	1 LED Power 4 LEDs Status and Error 3 LEDs traffic-light display in sensor

Measuring unit:

Measuring range:	0°C...50°C, 5..95% RH, 450-2000ppm VOC as CO ₂ equivalent
Resolution:	1/10 °C, 1/10% rH

VOC sensor, detected substances:

Substance class	Occurrence/use (example)
Aldehydes	Disinfectants, paints, varnishes, tobacco smoke, perspiration, transpiration
Aliphatic hydrocarbons	Gasoline and diesel engine fuels, vehicle exhaust, LPG, solvents, cosmetics, flatulence, household materials, PVC
Alcohols	Coating agents, household materials, adhesives, solvents, carpets, disinfectants, cosmetics
Amines	Dyestuffs, agricultural and pharmaceutical chemicals
Aromatic hydrocarbons	Printers/copiers, computers, solvents, PVC, gasoline and diesel engine fuels, tobacco smoke
Ketones	Solvents, coating agents, adhesives, fingernail polish removers, paints, varnishes, carpets

Measuring error: Temperature:
typ. @ 25°C ±0.3°C
max. @ 0..50°C ±1.2°C

Relative humidity:
typ. @ 25°C ±3%rH
max. @ 0..50°C ±7%rH (0-100%rH)
Long-term stability typ. <0.5%rH / year

Aging of the VOC sensor: Aging of the sensor is internally compensated for. It is however recommended that a CO₂ comparison measurement be performed once a year.

Measuring frequency:	4s
Storage frequency:	1, 5, 15, 60 min
Memory depth (832kB):	min. 10 weeks, max. 8 years
Deviation of the internal clock:	max. 4.32 min. / month (without time server calibration) max. 3 sec. (with time server calibration)

Housing and other data:

E-mail function:	Mail for sending alarms or as reporting function
Housing:	Plastic compact housing, 105x75x22mm
Weight:	approx. 200g

Ambient storage temperature: -25..+50°C
Ambient operating temperature: 0..+50°C
Permissible relative humidity: 0..95% RH (non-condensing)
Scope of delivery: 1x Web-Graph Air Quality for DIN rail mount
1x W&T prober, 2m (temperature/relative humidity & VOC)
1x product CD with WuTility management tool, OPC server, SNMP-MIB,
reference manual German/English



[We are available to you in person:](#)

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