Sensor:

- **CO_2 sensor:**
  - Measuring range: 0-5000 ppm CO_2
  - Measuring range (undefined accuracy): 5000-10,000 ppm CO_2

Connectivity:

- **Configurable LED tower** on sensor for optical indication of limit values
- **Use browser to monitor CO_2 and trends**
- **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 CO_2 values in the office
  - Logging of measurements via FTP, Excel file, email attachment and internal memory

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:

- Sensor:
- CO_2 air quality measurement
- DB9 receptacle
- Cable length: 2m (can be extended to max. 20m)
- Additional temperature and relative humidity measurement on request
- 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. 100mA @ 24V DC with external supply
- Displays:
- 1 LED power
- 2 LEDs network status
- 4 LEDs status and error
- 3 LEDs traffic-light display in sensor

Measuring unit:

- Measuring range:
- 0-5000 ppm CO_2
- 5000-10,000 ppm CO_2 (undefined accuracy)
- Resolution:
- 1 ppm CO_2
- Measuring error:
- Air quality (0-5000 ppm):
- max. ±50 ppm +3% of the measured value
-

  Air quality (5000-10,000 ppm):
- undefined
-

  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: 0 .. +50°C
- Permissible relative humidity:
  - 0...90% relative humidity (non-condensing)
- Scope of delivery:
  - 1x Web-IO CO_2 for DIN rail mount
  - 1x W&T sensor, 2m (CO_2)
  - 1x Quick Guide