W&T Wiesemann & Theis GmbH

www.WuT.de Networking, sensors and interface technology for industry, office and IT

Data sheet:

Web-IO CO2

Article no.: 57721

548.00 €

*Net price for commercial users

Monitor air quality

Web-IO CO_2 is a network-capable measuring instrument for detecting carbon dioxide concentration in the ambient air.

For long-term, continuous detection of the CO_2 concentrations it is equipped with an internal data logger, and the measuring data can be sent to the W&T cloud as well. The alarm function sends messages when configurable limits are exceeded.

The measuring range of 0-5,000 ppm is suitable for monitoring the indoor air in schools, daycare centers, retirement homes and office buildings. Applications from agriculture and horticulture include stall climate detection and greenhouse monitoring.

Properties

Sensor:

- **CO_2 sensor:**
  - Measuring range: 0-5000 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:**
  - OPC UA, REST and MQTT support
- **Additional software interfaces for incorporating into your systems/databases:**
  - SNMPv1, SNMPv2c, SNMPv3
  - Modbus-TCP
  - OPC UA, OPC DA
  - 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

- **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 per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3

- **5 year guarantee**

Wish for something!
Your suggestions for improvement and additions

Technical data

Connections and displays:

Sensor:	CO_2 air quality 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%)
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
Resolution:	1 ppm CO_2
Measuring error:	Air quality (0-5000 ppm): max. ±50 ppm +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: 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

Accessories

		*Net unit price for commercial users
Power supplies		
Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00 €
Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00 €
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00 €
Storage and Visualization		
logic.hub	50506	598.00 €
Mechanical Accessories		
Mounting bracket for wall mounting	58812	11.20 €
19" DIN rail	58813	21.00 €
Supplementary network products		
Ethernet Switch Gigabit Industry, 4 Ports	55614	148.00 €
Software		
WuTility	00104	free
OPC Server	00103	free
Sensobase®	00107	free
Web-IO2Go (app for iOS)	57700	free

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

Secure connection:

Allianz für Cyber-Sicherheit Teilnehmer

VDE CERT

We are available to you in person:

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