

Data sheet:

## Web-IO CO<sub>2</sub>



Article no.: 57721

EUR 548.00

\*Net price for commercial users

### Monitor air quality

Web-IO CO<sub>2</sub> is a network-capable measuring instrument for detecting carbon dioxide concentration in the ambient air.

For long-term, continuous detection of the CO<sub>2</sub> 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<sub>2</sub> sensor:**
  - Measuring range: 0-5000 ppm CO<sub>2</sub>

#### Connectivity:

- **Configurable LED tower** on sensor for optical indication of limit values
- **Use browser to monitor CO<sub>2</sub> 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<sub>2</sub> 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 <sub>2</sub> air quality measurement DB9 receptacle Cable length: 2m (can be extended to max. 20m) <a href="#">Additional temperature and relative humidity measurement on request</a>
Network:	10/100BaseT Autosensing/Auto-MDIX RJ45 <a href="#">IPv6 on request</a>
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 <sub>2</sub>
Resolution:	1 ppm CO <sub>2</sub>
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 <sub>2</sub> for DIN rail mount 1x W&T sensor, 2m (CO <sub>2</sub> ) 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

Motherbox 3	50504	328.00€
-------------	-------	---------

### 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.

We are available to you in person:

Wiesemann & Theis GmbH  
Porschestra. 12  
42279 Wuppertal

Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)  
Fax: +49 202/2680-265  
info@wut.de

© Wiesemann & Theis GmbH, subject to mistakes and changes: Since we can make mistakes, none of our statements should be applied without verification. Please let us know of any errors or misunderstandings you find so that we can become aware of and eliminate them.