# WiFi CO2 sensor with integrated probe

code: W5714



Sensors with WiFi interface are designed to measure the CO2 from integrated sensor (included in delivery).

Communication with the sensor is done via a wireless WiFi network. The device allows sending measured values to the online COMET Cloud (with the shortest interval of 5 minutes) or into COMET Database. The values can be displayed on integrated web pages and provided to third party systems using the Modbus TCP, SNMP, JSON and XML. The measured values are displayed on the LCD display.

The device continuously evaluates the alarm limits of the measured values and in case of exceeding them, it can send an e-mail or inform by means of acoustic or optical signaling. Two alarm limits are supported for each measurement channel.

The main advantage of sensors with WiFi interface is the simplicity of deployment in places where WiFi infrastructure is already available. Just place the sensor in the desired location and connect it to the WiFi network. WiFi sensor in conjunction with COMET Cloud offers a comprehensive solution for monitoring and alarm without the need for a server solution on the part of the user. If necessary, however, the sensor can also be connected to third-party systems, either using the Modbus TCP protocol, SNMP protocol or by sending JSON data to an http server. Sensor allow to provide values via XML and JSON using HTTP GET requests as well.

Thanks to these unique features, the WiFi sensor will find applications and a wide range of application areas.

Optional $CO_2$ measuring range extension from the standard 0 to 5,000 ppm up to 0 to 10,000 ppm (available at extra cost):

- **Extended measuring range:** 0 to 10 000 ppm
- **Accuracy in extended range:** 100 ppm + 5% of the measured value at 25 °C and 1013 hPa

## Technical data

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| CO2 SENSOR | |
| Measuring range | 0 to 5000 ppm |
| Accuracy | ±(50ppm +3% from reading) at 25°C and 1013hPa |
| Resolution | 1 ppm |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +60 °C |
| Channels | internal sensor of CO2 |
| Measuring interval | 15 s |
| Sending interval to COMET Cloud | adjustable 5 minutes to 12 hours |
| Communication protocols | HTTP(S), SMTP, ModbusTCP, SNMP (v1, v2c, v3), HTTP POST, HTTP GET (JSON, XML) |
| Alarm signalization | e-mail, acoustic, LED |

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| Power | 5.0 to 5.4 VDC; consumption 150 mA (max. 500 mA); USB-C connector |
| Radio section | frequency: 2.4 GHz; max. transmit power: 18 dBm; standard: IEEE 802.11 b/g/n |
| WiFi security | Open, WEP, WPA, WPA2, WPA2-PMF, WPA3, WPA2-EAP |
| Protection class | IP30 |
| Dimensions | 81 x 93 x 32 mm |
| Weight | 115 g |
| Warranty | 3 years |