

# IoT Wireless CO<sub>2</sub> datalogger with built-in sensor, 4G modem and Flat Rate SIM Card

code: U8410Gsim



IoT Wireless Datalogger kit with built-in 4G modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud. IoT Datalogger is designed to record CO<sub>2</sub> from built-in sensor. In case of exceeded set limits e-mail is sent from the [COMET Cloud](#).

Alarms are also indicated locally by LED, LCD and acoustically by built-in beeper.

The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via included USB-C cable.

4G recorder **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard**.

[Optional CO<sub>2</sub> 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

|                                              |                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| CO <sub>2</sub> SENSOR                       |                                                                                                                            |
| Measuring range                              | 0 to 5000 ppm                                                                                                              |
| Accuracy                                     | ±(50 ppm +3% from reading)                                                                                                 |
| Measurement interval                         | 15 s with external power supply, 2 min on battery power                                                                    |
| 4G MODEM PARAMETERS                          |                                                                                                                            |
| LTE Cat 1                                    | LTE FDD/GSM/GPRS/EDGE                                                                                                      |
| Supported network types                      | GSM/GPRS/EDGE 900/1800 MHz <br>LTE FDD B1/B3/B5/B7/B8/B20                                                                  |
| GENERAL TECHNICAL DATA                       |                                                                                                                            |
| Operating temperature                        | -20 to +60 °C                                                                                                              |
| Channels                                     | internal CO <sub>2</sub> sensor                                                                                            |
| Memory                                       | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode                                             |
| Recording interval to the internal memory    | adjustable from 1 second to 24 hours                                                                                       |
| Recording interval to the COMET Cloud        | from 5 minutes                                                                                                             |
| Interval for measuring and evaluating alarms | adjustable 1 s, 10 s, 1 min                                                                                                |
| Recording mode                               | noncyclic - data logging stops after filling the memory<br>cyclic - after filling memory oldest data is overwritten by new |
| Real time clock                              | year, leap year, month, day, hour, minute, second                                                                          |
| Power                                        | rechargeable Li-Ion battery A8200, 3.6V/5200mAh                                                                            |
| Protection class                             | IP20                                                                                                                       |
| Dimensions                                   | 61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm                                                                             |
| Weight (including batteries)                 | approx. 250 g                                                                                                              |

|          |         |
|----------|---------|
| Warranty | 3 years |
|----------|---------|