# IoT Wireless CO2 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 CO2 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 $CO_2$ 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 | ±(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 |

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| Warranty | 3 years |