

# IoT Wireless Temperature, Relative Humidity, CO2 and atmospheric pressure Datalogger with built-in GSM modem and Flat Rate SIM Card

code: U4440Msim



IoT Wireless Datalogger kit with built-in GSM modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud.

IoT Datalogger is designed to record temperature, humidity, atmospheric pressure and CO2 from built-in sensors. 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.

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

## Technical data

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| TEMPERATURE SENSOR          |                                                                                     |
| Measuring range             | -20 to +60 °C                                                                       |
| Accuracy                    | ±0.4 °C                                                                             |
| Resolution                  | 0.1 °C                                                                              |
| HUMIDITY SENSOR             |                                                                                     |
| Measuring range             | 0 to 100 % RH                                                                       |
| Accuracy                    | ± 1.8 % RH                                                                          |
| Resolution                  | 0.1% RH                                                                             |
| DEW POINT                   |                                                                                     |
| Measuring range             | -90 to +60 °C                                                                       |
| Accuracy                    | ±1.5 °C at ambient temperature T <25 °C and RH >30 %                                |
| Resolution                  | 0.1 °C                                                                              |
| CO2 SENSOR                  |                                                                                     |
| Measuring range             | 0 to 5000 ppm                                                                       |
| Accuracy                    | ±(50ppm +3% from reading) at 25°C and 1013hPa                                       |
| Resolution                  | 1 ppm                                                                               |
| ATMOSPHERIC PRESSURE SENSOR |                                                                                     |
| Measuring range             | 600 to 1100 hPa                                                                     |
| Accuracy                    | ±1.3 hPa at 23 °C from 800 to 1100 hPa                                              |
| Resolution                  | 0.1 hPa                                                                             |
| GENERAL TECHNICAL DATA      |                                                                                     |
| Operating temperature       | -20 to +60 °C                                                                       |
| Channels                    | internal sensor for temperature, humidity, CO <sub>2</sub> and atmospheric pressure |
| Memory                      | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode      |
| Recording interval          | adjustable from 1 s to 24 h                                                         |
| Display and alarm refresh   | 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                        | battery SONY Lilon 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                                                                                                                    |