

IoT Wireless Temperature, Relative Humidity, CO2 and atmospheric pressure Datalogger with built-in 2G 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**.

Possibility to [extend the measuring range](#) for an additional charge:

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

Technical data

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| 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 +2% from reading) at 25°C and 1013hPa |
| Resolution | 1 ppm |
| ATMOSPHERIC PRESSURE SENSOR SENSOR | |
| Measuring range | 600 to 1100 hPa |
| Accuracy | ±1.3 hPa at 23 °C from 800 to 1100 hPa |
| Resolution | 0.1 hPa |

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| GSM MODEM PARAMETERS | |
| Quad-band | 850/900/1800/1900MHz |
| Compliant to GSM | Phase2/2+ |
| GPRS | GPRS mobile station class B |
| Class 4 | 2W @ 850/900MHz |
| Class 1 | 1W @ 1800/1900MHz |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -20 to +60 °C |
| Channels | internal sensor for temperature, humidity, CO ₂ and atmospheric pressure |
| 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 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. 260 g |
| Warranty | 3 years |