

# IoT Wireless Temperature Datalogger for 2 external probes, with built-in GSM modem and Flat Rate SIM Card

code: U0121Msim



GSM Datalogger is designed to record temperature from two external Pt1000 probes. In case of exceeded set limits, SMS and JSON messages can be sent via GPRS data connection. Measured values can be sent to the internet storage [COMET Cloud](#), which is a complete monitoring, alarm and analysis system.

It is also possible to set the regular sending of JSON messages to COMET Database, the sending interval is adjustable. 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.

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

## Technical data

|                                                                                                   |                                                                                                                            |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| TEMPERATURE SENSOR - external probe Pt1000                                                        |                                                                                                                            |
| Measuring range                                                                                   | -200 to +260 °C                                                                                                            |
| Accuracy                                                                                          | ±0.2°C; ±0.2 % of the measurement value in a range of +100 to +260 °C                                                      |
| Resolution                                                                                        | 0.1 °C                                                                                                                     |
| Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s) | according to the connected probe                                                                                           |
| GENERAL TECHNICAL DATA                                                                            |                                                                                                                            |
| Operating temperature                                                                             | -20 to +60 °C                                                                                                              |
| Channels                                                                                          | 2x external temperature probe                                                                                              |
| 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                                                                                  | IP67                                                                                                                       |
| Dimensions                                                                                        | 61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm                                                                             |
| Weight (including batteries)                                                                      | approx. 270 g                                                                                                              |
| Warranty                                                                                          | 3 years                                                                                                                    |