

# IoT Wireless Temperature Datalogger for 4 external probes, with built-in 2G modem and Flat Rate SIM Card

code: U0141Msim



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 from up to 4 external sensors. In case of exceeded set limits e-mail is sent, SMS and JSON messages can be sent via GPRS data connection.

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 - 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                                                                                           |
| 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                                                                                          | 4x external temperature probe                                                                                              |
| 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                                                                                  | 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                                                                                                                    |