# IoT Wireless Temperature Datalogger for 4 external probes, with built-in GSM modem

code: U0141TM




GSM Datalogger is designed to record temperature from four external Pt1000 probes connected to the terminal board. 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 in a range of (-200 to +100) °C<br>±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 | IP20 |
| Dimensions | 61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm |
| Weight (including batteries) | approx. 270 g |
| Warranty | 3 years |