

# IoT Wireless Temperature Datalogger for 2 external probes, with two two-state inputs, built-in 4G modem

code: U0843G



GSM Datalogger is designed to record from two external temperature probes and two two-state inputs. In case of exceeded set limits, SMS and JSON messages can be sent via 4G 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.

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  |
| BINARY INPUT  |   |
| Parameters of the voltage contact   | „L“ level input voltage:< 0,4 V(*);<br>„H“ level input voltage:> 2 V;<br>Minimum voltage applicable:0 V;<br>Maximum voltage applicable:+30 V DC   |
| Parameters of the voltage-free contact  | Contact resistance in „switched-on“ state:< 10 kOhm;<br>Contact resistance in the „switched-off“ state:> 300 kOhm;<br>Contact voltage in the „switched-off“ state:ca 3 V;<br>Minimum state duration necessary for latching the state:1s |
| GSM MODEM PARAMETERS  |   |
| LTE Cat 1   | LTE FDD/GSM/GPRS/EDGE   |
| Supported network types   | GSM/GPRS/EDGE 900/1800 MHz <br>LTE FDD B1/B3/B5/B7/B8/B20   |
| GENERAL TECHNICAL DATA  |   |
| Operating temperature   | -20 to +60 °C   |
| Channels  | 2x external temperature probe, 2x binary input  |
| Memory  | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode  |

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| 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  |