

# Temperature data logger for 3x thermocouples, 1x external Pt1000 probe and 1x internal sensor, with built-in 4G modem

code: U0246G



Datalogger is designed to record temperature from three thermocouples, one Pt1000 probe and one internal temperature sensor. 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.

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 - internal probe   |   |
| Measuring range   | -20 to +60 °C   |
| Accuracy  | ±0.6°C  |
| Resolution  | 0.1 °C  |
| Response time of temperature measurement (temperature step 20°C, air flow approximately 1m/s)     | t63 < 6 minutes; t90 < 15 minutes                                     |
| 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                                      |
| TEMPERATURE SENSOR - THERMOCOUPLE TYPE B, J, K, N, S, T   |   |
| Measuring range for thermocouple K and N  | -200 to +1300 °C  |
| Measuring range for thermocouple J  | -200 to +750 °C   |
| Measuring range for thermocouple S  | 0 to 1700 °C  |
| Measuring range for thermocouple B  | 250 to 1800 °C, cold junction is not compensated                      |
| Measuring range for thermocouple T  | -200 to +400 °C   |
| Measuring range of DC voltage   | -70 to +70 mV   |
| Accuracy for types J, K, N, T   | ± ( 0,3 % of the measurement value +1,5 °C)                           |
| Accuracy for types B and S  | ± ( 0,5 % of the measurement value  +5 °C)                            |
| Accuracy for DC voltage   | ± 70 µV   |
| Resolution  | 0,1 °C  |

|  |  |
|--|--|
| Response time                                | according to the connected thermocouple  |
| GSM MODEM PARAMETERS                         |  |
| LTE Cat 1                                    | LTE FDD/GSM/GPRS/EDGE  |
| Supported network types                      | GSM/GPRS/EDGE 900/1800 MHz <br>LTE FDD<br>B1/B3/B5/B7/B8/B20   |
| GENERAL TECHNICAL DATA                       |  |
| Operating temperature                        | -30 to +70 °C  |
| Channels                                     | 3x thermocouple, 1x external Pt1000  |
| Memory                                       | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode   |
| Recording interval                           | adjustable from 1 s to 24 h  |
| Interval for measuring and evaluating alarms | adjustable 1 s, 10 s, 1 min  |
| Recording mode                               | noncyclic - data logging stops after filling the memory<br><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                                       | approx. 270 g  |
| Warranty                                     | 3 years  |