

## Temperature data logger for 3x thermocouples, 1x external Pt1000 probe and 1x internal sensor

code: U0246



Datalogger is designed to record temperature from three thermocouples, one Pt1000 probe and one internal temperature sensor. The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via USB-C. In case of exceeded set limits alarms are indicated by LED, LCD and acoustically by built-in beeper.

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   | -30 to +70 °C  |
| Accuracy  | ±0.4°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 type K and N  | -200 to +1300 °C   |
| Measuring range type J  | -200 to +750 °C  |
| Measuring range type S  | 0 to 1700 °C   |
| Measuring range type B  | 250 to 1800 °C, cold junction is not compensated                       |
| Measuring range type 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                                |
| 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   | Lithium battery 3.6 V, size AA   |
| Protection class                              | IP20   |
| Dimensions                                    | 61 x 93 x 53 mm  |
| Weight (including batteries)                  | cca 130 g  |
| Warranty                                      | 3 years  |