

## Temperature and humidity data logger with connector for another temperature probe

code: U3631



Datalogger is designed to record temperature and humidity from built-in sensors and from one external temperature probe Pt1000. 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.

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                         |                                                                                                                    |
| Measuring range                            | -30 to +70 °C                                                                                                      |
| Accuracy                                   | ±0.4 °C                                                                                                            |
| Resolution                                 | 0.1 °C                                                                                                             |
| TEMPERATURE SENSOR - external probe Pt1000 |                                                                                                                    |
| Measuring range                            | -90 to +260 °C                                                                                                     |
| Accuracy                                   | ±0.2 °C (-50 to +100 °C); <br>±0.2 % from reading from +100 to +260 °C;<br> ±0.4 % from reading from -90 to -50 °C |
| Resolution                                 | 0.1 °C                                                                                                             |
| HUMIDITY SENSOR                            |                                                                                                                    |
| Measuring range                            | 0 to 100 % RH                                                                                                      |
| Accuracy                                   | ± 1.8 % RH                                                                                                         |
| Resolution                                 | 0.1% RH                                                                                                            |
| DEW POINT                                  |                                                                                                                    |
| Measuring range                            | -60 to +70 °C                                                                                                      |
| Accuracy                                   | ±1.5 °C at ambient temperature T <25 °C and RH >30 %                                                               |
| Resolution                                 | 0.1 °C                                                                                                             |
| GENERAL TECHNICAL DATA                     |                                                                                                                    |
| Operating temperature                      | -30 to +70 °C                                                                                                      |
| Channels                                   | internal temperature and humidity sensor, 1x external temperature probe                                            |
| Memory                                     | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode                                     |
| Recording interval                         | adjustable from 1 s to 24 h                                                                                        |
| Display and alarm refresh                  | 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                        | Lithium battery 3.6V, size AA                                                                                              |
| Protection class             | IP67 electronics; IP30 sensors                                                                                             |
| Dimensions                   | 61 x 93 x 32 mm                                                                                                            |
| Weight (including batteries) | approx. 120 g                                                                                                              |
| Warranty                     | 3 years                                                                                                                    |