Temperature, humidity, CO2 and atmospheric pressure data logger with built-in sensors

code: U4440

Datalogger is designed to record temperature, humidity, atmospheric pressure and CO2. In case of exceeded set limits alarms are indicated 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 USB-C.

Recorder **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard.**

Optional CO_2 measuring range extension from the standard 0 to 5,000 ppm up to 0 to 10,000 ppm (available at extra cost):

- **Extended measuring range:** 0 to 10 000 ppm
- **Accuracy in extended range:** 100 ppm + 5% of the measured value at 25 °C and 1013 hPa

Technical data

TEMPERATURE SENSOR	
Measuring range	-20 to +60 °C
Accuracy	±0.4 °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 +60 °C
Accuracy	±1.5 °C at ambient temperature T <25 °C and RH >30 %
Resolution	0.1 °C
CO2 SENSOR	
Measuring range	0 to 5000 ppm
Accuracy	±(50ppm +3% from reading) at 25°C and 1013hPa
Resolution	1 ppm
ATMOSPHERIC PRESSURE SENSOR	
Measuring range	700 to 1100 hPa
Accuracy	±1.3 hPa at 23 °C
Resolution	0.1 hPa
GENERAL TECHNICAL DATA	
Operating temperature	-20 to +60 °C

Channels	internal sensor for temperature, humidity, CO₂ and atmospheric pressure
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 cyclic - after filling memory oldest data is overwritten by new
Real time clock	year, leap year, month, day, hour, minute, second
Power	battery SONY LiIon 5200mAh
Protection class	IP20
Dimensions	61 x 93 x 53 mm
Weight (including batteries)	approx. 250 g
Warranty	3 years