IoT Wireless Temperature Datalogger for 4 external probes, with built-in 4G modem and Flat Rate SIM Card

code: U0141TGsim



IoT Wireless Datalogger kit with built-in 4G modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud.
4G Datalogger is designed to record temperature from four external Pt1000 probes connected to the terminal board. In case of exceeded set limits e-mail is sent, SMS and JSON messages can be sent via 4G data connection.

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.

4G 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 in a range of (-200 to +100) °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
4G MODEM PARAMETERS	
LTE Cat 1	LTE FDD/GSM/GPRS/EDGE
Supported network types	GSM/GPRS/EDGE 900/1800 MHz LTE FDD B1/B3/B5/B7/B8/B20
GENERAL TECHNICAL DATA	
Operating temperature	-20 to +60 °C
Channels	4x external temperature probe
Memory	500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode
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 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