IoT Wireless Temperature Datalogger for 2 external probes, with two two-state inputs, built-in 2G modem

code: U0843M



GSM Datalogger is designed to record from two external temperature probes and two two-state inputs. In case of exceeded set limits, SMS and JSON messages can be sent via GPRS 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.

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

With a newly purchased IoT wireless datalogger with a built-in modem, you receive 3 months of COMET Cloud for free; a full year of operation in COMET Cloud then requires 1 credit.

Technical data

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
BINARY INPUT	
Parameters of the voltage contact	„L“ level input voltage:< 0,4 V(*); „H“ level input voltage:> 2 V; Minimum voltage applicable:0 V; Maximum voltage applicable:+30 V DC
Parameters of the voltage-free contact	Contact resistance in „switched-on“ state:< 10 kOhm; Contact resistance in the „switched-off“ state:> 300 kOhm; Contact voltage in the „switched-off“ state:ca 3 V; Minimum state duration necessary for latching the state:1s
GSM MODEM PARAMETERS	
Quad-band	850/900/1800/1900MHz
Compliant to GSM	Phase2/2+
GPRS	GPRS mobile station class B
Class 4	2W @ 850/900MHz
Class 1	1W @ 1800/1900MHz
GENERAL TECHNICAL DATA	

Operating temperature	-20 to +60 °C
Channels	2x external temperature probe, 2x binary input
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