IoT Wireless Datalogger for 3 current inputs 0-20mA and 1 two-state input, with built-in 4G modem

code: U6841G

GSM datalogger is designed to record 3 current inputs and 1 binary input. In case of exceeded set limits, SMS and JSON messages can be sent via 4G 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.**

Technical data

CURRENT INPUT	
Measuring range	0 to 20 mA DC
Resolution	better than 1 µA
Accuracy	±20 µA
Input resistance	approx. 100 Ω
Minimum current	0 mA (open circuit)
Maximum current	limited to approx. 40 mA
BINARY INPUT	
Parameters of the voltage contact	„L“ level input voltage:< 0,8 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:> 2 MOhm; Contact voltage in the „switched-off“ state:ca 3 V; Minimum state duration necessary for latching the state:1s
GSM 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	3x current input, 1x 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