IoT Wireless Temperature and Relative Humidity Datalogger for external probe, with built-in 4G modem

code: U3121G



4G datalogger is designed to record temperature and humidity from external probe. 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.

The temperature and humidity probe is not included in delivery, probe of the appropriate length and design you can choose in optional accessories.

The device **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	
Measuring range	according to the connected probe Digi/E
Accuracy	according to the connected probe Digi/E
Resolution	0.1 °C
Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s)	8 min
HUMIDITY SENSOR	
Measuring range	according to the connected probe Digi/E
Accuracy	according to the connected probe Digi/E
Resolution	0.1% RH
DEW POINT	
Measuring range	according to the connected probe Digi/E
Accuracy	according to the connected probe Digi/E
Resolution	0.1 °C
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	1x connectable temperature+humidity 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	IP67
Dimensions	61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm
Weight (including batteries)	approx. 260 g
Warranty	3 years