# IoT Wireless Temperature and Relative Humidity Datalogger for external probe, with built-in 2G modem

code: U3121M




GSM 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 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.

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 |
| 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 | 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<br>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 |