

# IoT Wireless Temperature and Relative Humidity Datalogger, with built-in 2G modem and Flat Rate SIM Card

code: U3120Msim



IoT Wireless Datalogger kit with built-in GSM modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud. IoT Datalogger is designed to record temperature and humidity from built-in sensors. In case of exceeded set limits e-mail is sent from the [COMET Cloud](#).

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

|  |  |
|--|--|
| TEMPERATURE SENSOR                           |  |
| Measuring range                              | -20 to +60 °C  |
| Accuracy                                     | ±0.4 °C  |
| Resolution                                   | 0.1 °C   |
| HUMIDITY SENSOR                              |  |
| Measuring range                              | 0 to 100 % RH  |
| Accuracy                                     | ± 1.8 % RH   |
| Resolution                                   | 0.1% RH  |
| DEW POINT                                    |  |
| Measuring range                              | -90 to +60 °C  |
| Accuracy                                     | ±1.5 °C at ambient temperature T <25 °C and RH >30 %                           |
| 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                                     | internal temperature and humidity sensor                                       |
| 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 electronics; IP30 sensors   |
| Dimensions                   | 61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm   |
| Weight (including batteries) | approx. 260 g  |
| Warranty                     | 3 years  |