

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

code: U3631Msim



IoT Wireless Datalogger kit with built-in GSM modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud.

Measured values can be sent to the internet storage [COMET Cloud](#), which is a complete monitoring, alarm and analysis system. 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  |
| TEMPERATURE SENSOR - external probe Pt1000 |   |
| Measuring range                            | -90 to +260 °C  |
| Accuracy                                   | ±0.2 °C (-50 to +100 °C); <br>±0.2 % from reading from +100 to +260 °C;<br>±0.4 % from reading from -90 to -50 °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   |

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| Channels                                     | internal temperature and humidity sensor, 1x external temperature 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 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  |