

# IoT Wireless Datalogger for 3 current inputs 0-20mA and 1 two-state input, with built-in 2G modem

code: U6841M



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 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.

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 $\mu$ A                                                                                                                                                                                                                 |
| Accuracy                               | $\pm 20 \mu$ A                                                                                                                                                                                                                        |
| Input resistance                       | approx. 100 $\Omega$                                                                                                                                                                                                                  |
| 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;<br>Minimum voltage applicable:0 V;<br>Maximum voltage applicable:+30 V DC                                                                                          |
| Parameters of the voltage-free contact | Contact resistance in „switched-on“ state:< 10 kOhm;<br>Contact resistance in the „switched-off“ state:> 2 MOhm;<br>Contact voltage in the „switched-off“ state:ca 3 V;<br>Minimum state duration necessary for latching the state:1s |
| 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                                     | 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<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                             | 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                                                                                                                    |