MT-723 module is a data logging and transmitting device with the highest degree of protection against harsh external environment. Like other modules from MT family MT-723 module is a cutting edge design characterized by technological advancement, innovative solutions, ease of configuration and integration with data gathering and processing systems. Module has possibility of initiating data transmission (event-driven or scheduled) what helps to minimize the transmission costs and energy consumption, therefore increasing battery life. However it is possible to set up device to stay online permanently or for desired time thus allowing to poll both current, logged or both types of data asynchronously from module. Robust, compact design enclosed in a polycarbonate housing with IP68 protection module allows installation and usage of module in places with harsh environment and without power supply (such as water supply network measuring chambers). The module can be powered from alkaline or lithium battery packs, batteries, solar panels as well as from stationary sources of power. Voltage level of power source is constantly monitored and thereby ensuring an extremely low power consumption. Measurement data is stamped with precise time and can be recorded in nonvolatile Flash memory. In addition to measuring functions module can also report states of emergency such as mechanical shock, flooding, unauthorized opening of the chamber, lack of flow, exceeding specified level of flow, pressure, water level, temperature, humidity, etc. Resources and functionality of the MT-723 module can be optimized for specific applications thanks to the many available options (module floating sensor, pressure transmitter, GPS receiver). The module is supplied with userfriendly configuration environment and communication driver providing DPC, ODBC and CSV interfaces for data reception and the software for remote management via GPRS. User can manage modules from remote via GPRS. Remote management includes firmware update.

**Technical Data**

**General**
- Dimensions: length x width x height: 80 x 140 x 65 mm
- Weight: 600 g
- Mounting type: 4 holes
- Operating temperature: -20°C to +60°C
- Protection class: IP68

**GSM/GPRS Modem**
- Modem type: SIERRA WIRELESS
- GSM: Quad Band (850/900/1800/1900)
- Frequency ranges:
  - GMS 850: Transmitter: 824 MHz – 849 MHz
  - EGSM 900: Transmitter: 880 MHz – 915 MHz
  - DCS 1800: Transmitter: 1710 MHz – 1785 MHz
  - PCS 1900: Transmitter: 1850 MHz – 1910 MHz
- Transmitter peak power:
  - EGMS/EGSM: 35 dBm (15W) – class 4 station
  - OCS1900: 35 dBm (1W) – class 1 station

**Power**
- Power voltage range: 7 – 30 VDC
- Minimum current in sleep mode (for 12 V): < 250 μA
- Maximum current when transmitting data (for 12 V): 25 mA
- Maximum peak current when transmitting data (for 12 V): 500 mA

**Analog inputs**
- **AN1 – AN3** (voltage, differential)
  - Input signal range: 0 – 5.0 V
  - Input resistance: > 100 KΩ
- Resolution: 12 bits
- Accuracy in full operating temperature range: ± 0.3 %
- Accuracy in 25°C: ± 0.1 %

**Binary inputs**
- I1 – I6/counter inputs I1 – I5
- Contact polarization: 3 V
- Counting frequency for counter inputs: 250 Hz max.
- Minimal pulse length for binary inputs: 2 ms
- Minimal pulse length for binary inputs: 0.1 ms

**N MOS outputs Q1, Q2**
- Maximum voltage: 30 V
- Maximum current: 250 mA
- Switch off current: < 50 μA
- Resistance: 1 Ω

**Configurable voltage output**
- Voltage range: 0 – 5.0 V
- Resolution: 0.1 V
- Accuracy: 2 %
- Maximum current: 50 mA

**Logger**
- Memory type: FLASH
- Memory size: 4 MB (10 000 records)
- Maximum recording interval: 1 s

**Drawings and dimensions**

**Configration environment**

**Supplementary information:**

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