

## Four channel data logger with pulse and two-state inputs

code: U7844



Data logger is designed to record from four binary inputs or from two pulse and two binary inputs.

The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via USB-C.

Datalogger inputs can be set up for four binary inputs or two binary inputs and two pulse counters.

In case of exceeded set limits alarms are indicated by LED, LCD and acoustically by built-in beeper.

The device **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard**.

### Included in delivery:

- U7844
- Manual
- Traceable calibration certificate
- Technical support at [discussion forum](#)
- [FREE analytical software COMET Vision](#)

### Technical data

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|--|---|
| BINARY INPUT                           |   |
| Parameters of the voltage contact      | „L“ level input voltage:< 0,4 V(*);<br>„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:> 300 kOhm;<br>Contact voltage in the „switched-off“ state:ca 3 V;<br>Minimum state duration necessary for latching the state:1s |
| COUNTER INPUT                          |   |
| Counter parameters                     | Range 24 bits (16 777 215), possibility of letting the counter overflow   |
| Maximum pulse frequency                | configured for voltage input - max. 5kHz<br>configured for a voltage-free or open-collector transistor - max. 200Hz   |
| GENERAL TECHNICAL DATA                 |   |
| Operating temperature                  | -20 to +60 °C   |
| Channels                               | 4x binary input nebo 2x binary input a 2x counter   |
| Memory                                 | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode  |
| Recording interval                     | adjustable from 1 s to 24 h   |
| Display and alarm refresh              | 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                        | Lithium battery 3.6V, size AA  |
| Protection class             | IP20   |
| Dimensions                   | 61 x 93 x 32 mm  |
| Weight (including batteries) | approx. 120 g  |
| Warranty                     | 3 years  |