# Temperature data logger for four external Pt1000 probes - kopie - kopie

□□: U0246



The Datalogger is designed to record temperature for four external Pt1000 probes. In case of exceeded set limits, SMS and JSON messages can be sent via GPRS data connection. It is possible to set the regular sending of JSON messages to COMET Database, the sending interval is adjustable.
The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via USB-C.

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:**

- U0141M
- Manual
- Traceable calibration certificate
- Technical support at discussion forum
- FREE analytical software COMET Vision

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| TEMPERATURE SENSOR - internal probe | |
| Measuring range | -30 to +70 °C |
| "Accuracy | ±0.4°C;" |
| Resolution | 0.1 °C |
| Response time of temperature measurement (temperature step 20°C, air flow approximately 1m/s) | t63 < 6 minutes; t90 < 15 minutes |
| TEMPERATURE SENSOR - external probe Pt1000 | |
| Measuring range | -200 to +260 °C |
| "Accuracy | ±0.2°C; ±0,2 % of the measurement value in a range of +100 to +260 °C" |
| Resolution | 0.1 °C |
| "Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s) | according to the connected probe" |
| TEMPERATURE SENSOR - THERMOCOUPLE TYPE B, J, K, N, S, T | |
| Measuring range type K and N | -200 to +1300 °C |
| Measuring range type J | -200 to +750 °C |
| Measuring range type S | 0 to 1700 °C |
| Measuring range type B | 250 to 1800 °C, cold junction is not compensated |
| Measuring range type T | -200 to +400 °C |
| Measuring range of DC voltage | -70 to +70 mV |
| Accuracy for types J, K, N, T | ± (\|0,3 % of the measurement value\|+1,5 °C) |
| Accuracy for types B and S | ± (\|0,5 % of the measurement value\| +5 °C) |

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|---|---|
| Accuracy for DC voltage | ± 70 µV |
| Resolution | 0,1 °C |
| Response time | according to the connected thermocouple |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -30 to +70 °C |
| Channels | 3x thermocouple, 1x external Pt1000 |
| Memory | 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode |
| "Recording interva | adjustable from 1 s to 24 h" |
| "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 | Lithium battery 3.6 V, size AA |
| Protection class | IP20 |
| Dimensions | 61 x 93 x 53 mm |
| Weight (including batteries) | cca 130 g |
| Warranty | 3 years |