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## D0311 Thermocouple thermometer



code: D0311

Thermometer is designed for direct measurement and datalogging of temperature into the internal non-volatile memory. Free PC program enables to transfer recorded data via RS232 serial link to the personal computer for consequent evaluation. Instrument is connected to the PC through included communication cable only for data transfer from the memory. During connection with the PC no measurement and record is enabled.

Single channel thermometer and data logger for thermocouples K, J, S.

Included in delivery:

Instrument including the battery

- Traceable calibration certificate

- Instruction manual

- Plastic transport case

- PC communication cable

- Self adhesive Dual Lock for easy installation

- Free basic Windows software is ready to download at folder [Download](#)

**!!!DISCONTINUED!!!**

### Technical Data

Technical parameters	Value
Measured Value	
Construction Type	For External Temperature Probes
Temperature Measuring Range	-200 to 1700 °C
Data Logging Function	Yes
Operating temperature range	-10 to +60°C
Connector for probe connection	subminiature connector for thermocouples
Accuracy without probes - thermocouples K (NiCr-Ni)	$\pm(0.4^{\circ}\text{C} + 0.1\% \text{ from reading})$ from -200 to +1300°C
Accuracy without probes - thermocouples J (Fe-Co)	$\pm(0.4^{\circ}\text{C} + 0.1\% \text{ from reading})$ from -200 to +750°C
Accuracy without probes - thermocouples S (Pt10%Rh-Pt)	$\pm(0.85^{\circ}\text{C} + 0.1\% \text{ from reading})$ from -50 to +1700°C

Resolution	J,K thermocouples: 0.1°C from -99.9 to +999.9°C, otherwise 1°C S thermocouples: 0.4°C from -50.0 to +999.9°C, otherwise 1°C
Power	battery 9V
Battery life	2 months typically
Real time clock	year, leap year, month, day, hour, minute, second
PC interface	serial RS232
Sampling interval in data logging mode	10s to 24hours (18 adjustable intervals)
Total memory capacity	up to 16000 recorded values
Data logging modes	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Dimensions	141 x 71 x 27 mm
IP protection	IP20
Weight including battery	approximately 150 g
Warranty	3 years