

LDT 2000

Accurate thermometer for measuring temperature with two-channel with platinum resistance Pt-100. The measurement range is -273 °C ... 350 °C.

The LDT 200 thermometer has an accuracy of 0.01 °C, optionally 0.007 °C. It also has a high resolution 0.001 °C.

The LDT 2000 not require regular recalibration by inverting circuits AC, eliminating thermal effects. Drift (Thermal EMF) via a RS232 interface or USB communication. Allows the ability to record using PC.

APPLICATIONS

Calibration laboratories
 Testing labs
 Climate chambers
 Research
 Development
 Viscometers

HIGHLIGHTS

Standard accuracy 0.02 °C
 Optional accuracy 0.007 °C
 Resolution 0.001 °C (1MK)
 Measuring range -273 ... +350 °C
 Rank 0 ... 230 Ohm Ω
 2 channel
 Log (data logger)
 Software included



Technical characteristics

Temperature measurement range	-273 °C ... +350 °C (resistance measuring range: 0 ... 230Ω)
Resolution	Optional: -150... +850 °C
Accuracy	0.001 °C (1mK), noise ≤ 1mK
Measuring current Pt-100	±0.007 °C in the range 0 °C ... 100 °C
Automatic heating power Pt-100	LDT 2000: 0,23mA ±10%
Additional equipment	LDT 2000: 5,8μW to 0°C 1 extension cable 1.8 m for the temperature probe 230 VAC ±10%, 45 ... 65 Hz



Feeding	4 VA max. 2 VA typical
Power consumption	2 x 50 mA 250 V; 5 x 20 mm
Fuses	Feeding 230V – IEC C14
Connectors	2 x 6-pin connectors FA Connecting land takes 4 mm B USB connector - USB Interface DB9 – RS – 232 interface
RS232 parameters	Transmission speed: 9600; data bits: 8; parity: no; stop bits: 1 USB 1.0
Standard USB	SCPI support
Communication protocol	Storage: -10 °C ... +60 °C
Temperature range	Usage: 10 °C ... 40 °C, non-condensing

