

RK-NEX-240

★ NEW ★
Field & Lab Ready

High Precision Platinum Resistance Thermometer / Data Logger

Product Description



±0.015°C after point calibration

Parameter	Specification
Product Name	High Precision Platinum Resistance Thermometer
Sensor Type	Platinum Resistance Thermometer (PT100 & PT1000)
Measurement Technology	Pulse Measurement Technology (Low Power Consumption)
Temperature Range	-40°C to +200°C
Resolution	0.001°C
Factory Accuracy	±(0.05% t +0.05)°C
Accuracy After Calibration	±0.015°C (with point calibration)
Display Type	Large Dot Matrix LCD Screen with High Quality Backlight
Temperature Graph Display	Yes - Supports curve graph display
Data Alarm Function	Over-limit alarm & Under-limit alarm (Buzzer alert)
Probe Fault Alarm	Yes - Automatic probe fault detection
Data Statistics	Maximum, Minimum, and Average values displayable
Sampling Rate	1 reading per second
Data Recording Capacity	20000 groups of readings recordable
File Formats	3 different formats of files generated
Point Calibration	User-accessible point calibration function
Power Options	Support multiple power solutions
Data Export	Real-time data viewing and export capability
Probe Compatibility	Multiple probe types supported (PT100, PT1000)
Application Fields	Laboratory, Food, Medicine, Household, Industry, Aerospace

Cold Chain Monitoring	Yes - Ideal for temperature-sensitive transport
Data Backup	Automatic backup reduces accidental data loss risk
Operating Temperature	0°C to 50°C (ambient)
Storage Temperature	-10°C to 60°C
Humidity Range	<85% RH (non-condensing)
Display Resolution	High-precision digital display with millisecond updates
Connectivity	Data transfer and analysis capability

KEY HIGHLIGHTS

- ✓ Ultra-High Precision - Resolution to 0.001°C with $\pm 0.015^{\circ}\text{C}$ calibration accuracy
- ✓ Optimized Temperature Range - -40°C to $+200^{\circ}\text{C}$ (covers industrial & laboratory needs)
- ✓ Dual Probe Support - PT100 and PT1000 platinum resistance probes compatible
- ✓ Pulse Measurement Technology - Reduces power consumption and probe self-heating
- ✓ Large Dot Matrix LCD Display - High-quality backlight with temperature graph visualization
- ✓ Advanced Data Logging - Records 20000 groups of readings with automatic backup
- ✓ Real-Time Monitoring - Alarm functions for over-limit and under-limit detection
- ✓ Multiple Applications - Laboratory, food, medicine, aerospace, cold-chain monitoring
- ✓ Data Analytics - Maximum, minimum, average values with sampling at 1 reading/second
- ✓ Professional Grade - ISO17025 calibrated with point calibration capability

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