

**INTRODUCTION**

This instrument is a portable 3½ digit, compact-sized digital thermometer designed to use external K-type thermocouple sensor, Temperature indication follows National Bureau of Standards and EC584 temperature/voltage tables for K-type thermocouples. One K-type thermocouples is supplied with the thermometer.

**ELECTRICAL SPECIFICATIONS****Temperature Scale:**

Celsius (°C), Fahrenheit (°F) or Kelvin (K) user-selectable

**Measurement Range:**

-50°C to 1300°C -5°F to 2000°F, 223K to 2000K

Resolution: 1°C or 1°F, 0.1°C or 0.1°F, 1 K

**Accuracy:**

Accuracy is specified for operating temperatures over the range of 18°C to 28°F (64°F to 82°F), for 1 year, not including thermocouple error.

± 2°C	-5°C to 0°C
± 4°F	-5°F to 32°F
± 5K	223K to 273K
± (0.5% rdg+1°C)	0°C to 1000°C
± (0.8% rdg+ 1°C)	1000°C to ISO°C
± (0.5% rdg+2°F)	32°F to 2000°F
± (1.0% rdg+2K)	273K to 2000K

**Temperature Coefficient:**

0.1 times the applicable accuracy specification per 0°C from 0°C to 18°C and 28°C to 50°C (32°F to 64°F and 82°F to 122°F)

**Input protection:** 6DV dc or 24V rms ac maximum input voltage on ac-y combination of input pins.

**Reading Rate:** 2.5 times per second

**Input Connector:** Accepts standard miniature thermocouple connectors (flat blades spaced 7.9mm, center to center)

**ENVIRONMENTAL**

**Ambient Operating Range:** 0°C to 50°C (32°F to 122°F)

**Storage Temperature:** -20°C to 60°C (-4°F to 140°F)

**Relative Humidity:** 0% to 80% (0°C to 35°C) (32°F to 95°F)  
0% to 70% (35°C to 50°C) (95°F to 122°F)

**GENERAL**

**Display:** 3½ digit backlit liquid crystal display (LCD) with maximum reading of 1999

**Battery:** Standard 9V battery (NEDA 1604 IEC 6F22)

**Dimensions:** 162mm (H) x 76mm (W) x 385mm (D)

**Weight:** 210g

**Supplied Probe:** 4 foot type 'K' thermocouple bead probe (Teflon tape insulated).

**Maximum insulation temperature:** 260°C (500°F)

**Probe accuracy:** ±2.2°C or ± 0.75% of reading (Whichever is greater) from 0°C to 800°C

**OVERLOAD DISPLAY** The instrument has overload display.

**HOLD MODE** The instrument freezes the reading being displayed.

**MAX MODE** The maximum value is recorded and updated.

**Tc (TEMPERATURE COMPENSATOR) CHECKING MODE** The instrument will display inside temperature.

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