

**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	-58°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 ISO0°C
t (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°F (500°C)

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.

**OASIS INSTRUMENTS CO.**

2-2-103 to 108 Ranigunj
Ganesh Chamber, 2nd Floor
Secunderabad - 500 003
Andhra Pradesh, India
Telefax: +91-40-40025290

E-mail : oasis_instruments@yahoo.co.in, info@oasisinstruments.com
Url: www.oasisinstruments.com