



This instrument is a portable 3 1/2 digit, compact-sized digital thermometer designed to use external K-type thermocouple as temperature sensor. Temperature indication follows National Bureau of Standards and IEC584 temperature/voltage tables for K-type thermocouples. Two K-type thermocouples is supplied with the thermometer.



DT-612

DIGITAL THERMOMETER

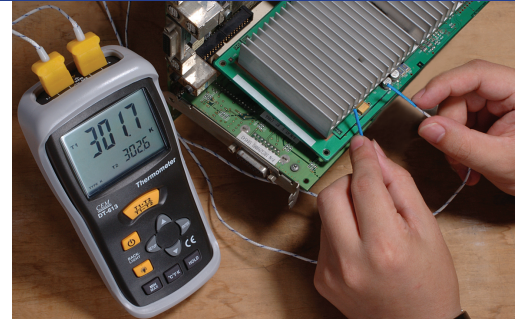
- | User Selectable Temperature Scales
- | User Selectable Resolution
- | Uses K type Thermocouple
- | Dual Thermocouple input
- | Wide variety of interchangeable thermocouple probes
- | Max Hold / Data Hold
- | Differential Temperature (T1-T2)
- | SCAN Function (T1, T2, T1-T2, MAX. HOLD ...)
- | Backlit LCD Display

Electrical Specifications

Temperature Scale

Celsius (°C), Fahrenheit (°F) user-selectable

Measurement Range	: -50°C to 1300°C, -58°F to 2000°F
Resolution	: 1°C or 1°F, 0.1°C or 0.1°F
Accuracy	: Accuracy is specified for operating temperatures over the range of 18°C to 28°C (64°F to 82°F), for 1 year, not including thermocouple error $\pm 2^{\circ}\text{C}$ -50°C to 0°C $\pm 4^{\circ}\text{F}$ -58°F to 32°F $\pm(0.5\% \text{ rdg} + 1^{\circ}\text{C})$ 0°C to 1000°C $\pm(0.8\% \text{ rdg} + 1^{\circ}\text{C})$ 1000°C to 1300°C $\pm(0.5\% \text{ rdg} + 2^{\circ}\text{F})$ 32°F to 2000°F
Temperature Coefficient	: 0.1 times the applicable accuracy specification per °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	: 60V DC or 24V rms AC maximum input voltage on any 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 Specifications

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 Specifications

Display	: 3 1/2 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 38.5mm (D)
Weight	: 210g
Supplied Probe	: Type "K" thermocouple bead probe (Teflon tape insulated). Maximum insulation temperature 260°C (500°F) Probe accuracy $\pm 2.2^{\circ}\text{C}$ or $\pm 0.75\%$ of reading (Whichever is greater) from 0°C to 800°C

Accessories

Battery, Holster with stand, K type Bead Probe, Carrying Case, Instruction Manual.