



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

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|-------------------------|--|
| 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 ±2°C -50°C to 0°C ±4°F -58°F to 32°F ±(0.5% rdg+1°C) 0°C to 1000°C ±(0.8% rdg+1°C) 1000°C to 1300°C ±(0.5% rdg+2°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

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|-------------------------|--|
| 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)×76mm(W)×38.5mm(D) |
| Weight | : 210g |
| Supplied Probe | : 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 |

Accessories

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