



## Specification DT173 DT175 Digital Thermometers



### ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <75% RH for 1 year, not including thermocouple error.

Temperature coefficient: 0.1 x (applicable accuracy) per °C. (0°C to 18°C, 28°C to 50°C)

Temperature scale: Celsius or Fahrenheit, user-selectable

Thermocouple type: K

Measurement range: -200°C to 1372°C. (-328°F to 1999°F)

Note: Measurement range will be limited by the range of the thermocouple probe used.

Resolution: 0.1° to 199.9°C/°F, 1° ≥ 200°C/°F

### Temperature accuracy:

Range	Accuracy
-200°C to -60°C	± (0.1% of rdg + 2°C)
-60°C to 1372°C	± (0.1% of rdg + 1°C)
-328°F to -76°F	± (0.1% of rdg + 4°F)
-76°F to 1999°F	± (0.1% of rdg + 2°F)



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Input protection: 24V DC or AC rms maximum input voltage on any combination of input pins.

Input connector: Accepts standard miniature thermocouple connectors (flat blades spaced 7.9mm. center to center).

### Supplied thermocouple 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).

### GENERAL

Display:

3½ digit liquid crystal display (LCD) with maximum reading of 1999

Measurement rate: 2.5 times/second

Polarity: Automatic, positive implied, '-' for negative polarity indication

Overrange: (OL) is displayed

Power: 4 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)

Battery life: 200 hours typical with alkaline batteries

Low battery indication: Low battery symbol is displayed

Auto power off: After 30 minutes

Dimensions: 160 mm (H) x 83 mm (W) x 38 mm (D).

Weight: Approx. 240g, including batteries

Includes: Type K bead thermocouple (x2 for DT175), 4 x 1.5V AAA alkaline batteries and instructions



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### ENVIRONMENTAL

Temperature & Humidity:

(Operating): 0°C to 50°C, <70% R.H.

(Storage): -20°C to 60°C, 0 to 80% R.H., batteries removed

Altitude: up to 2000m

Pollution degree: 2

### SAFETY

Conforms to: BS EN 61010-1

Class II, double insulation

### EMC

Conforms to BS EN 61326-1

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