

MARTINDALE
● ● ● **ELECTRIC**

Specification

unit code: DT75

unit name: Digital Thermometer



Electrical Measurement Range: -50°C to 1300°C (-58°F to 2000°F)

Resolution: Switchable between 1° / 0.1 and °C / °F

Accuracy: For operating temperatures of 18°C to 28°C (64°F to 82°F), for one year, not including thermocouple error:

-50°C to 0°C	±2°C
0°C to 1000°C	±(0.3% rdg + 1°C)
1000°C to 1300°C	±(0.5% rdg + 1°C)
-58°F to 32°F	±4°F
32°F to 2000°F	±(0.3% rdg + 2°F)

Temperature Coefficient: 0.1 times the applicable accuracy specification per °C from 0 to 18°C and 28 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 inputs. 

Reading Rate: >2 times per second.

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

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 liquid crystal display (LCD) with maximum reading of 1999.

Battery: Standard 9V battery (PP3 or MN1604)

Battery Life: 200 hours typical (carbon zinc battery).

Dimensions: 147mm (H) x 70mm (W) x 39mm (D)

Weight: 7.6oz (215g)

Supplied Probe: 4ft type “K” thermocouple bead probe (teflon tape insulated). Maximum insulation temperature 260°C (500°F). Probe accuracy is $\pm 2.2^{\circ}\text{C}$ or $\pm 0.75\%$ of reading (whichever is greater) from 0° to 800°C.

International linearisation follows National Bureau of Standards / IEC 584 Temperature/Voltage tables for K-Type thermocouples.