

ELECTRICAL

Measurement Ranges

Type K	= -200°C to 1372°C
Type T	= -200°C to 400°C
Type R	= -50°C to 1767°C
Type N	= -200°C to 1300°C
Type J	= -200°C to 1200°C
Type E	= -200°C to 1000°C
Type S	= -50°C to 1767°C
Type I/R	= -50°C to 200°C

Accuracy@23°C	±0.15% of reading ±0.2°C
Characterising error	less than 0.05°C
Temperature coefficient	0.01% of reading/°C
Cold junction compensation	0.0075°C/°C
Resolution	0.1°autoranging to 1° 1000°

Note

Strong RF fields may adversely affect measurement accuracy.

General

WEIGHT	155gms (5.47oz)
DIMENSIONS	130 x 70 x 33 mm
BATTERY	PP3
BATTERY	200 Hours

TECHNOLOGY IN TEMPERATURE



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MM 2005
Handheld Thermometer



Introduction

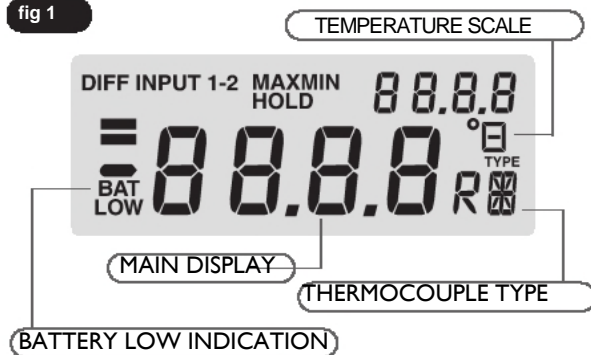
Your high accuracy microprocessor driven thermometer is suitable for use with K, T, R, N, J E, S and I/R Type thermocouple sensors.

The thermocouple calibrations are in accordance with national and international standards (NBS and IEC) tables.

Features

- °C TEMPERATURE SCALE
- OVERRANGE / OPENCIRCUIT PROBE INDICATION
- LOW BATTERY INDICATION

fig 1



OPERATING INSTRUCTIONS

To Measure Temperature

1. Fit the battery to the instrument (refer to battery replacement details)
2. Switch thermometer ON.
3. Plug thermocouple into input socket.
4. Take measurement by contacting object with probe and reading from the display.

Using The Hold Feature

The hold feature is used to store the current value.

When you press the key the current value will transfer to the top right of the display, while the main display continues to be updated.

To cancel press the hold key again.

Replacing The Battery

The instrument will indicate 'BAT LOW' when the battery needs changing.

To change the battery, firstly remove the unit from the outer case. The battery compartment is on the rear of the instrument. Using a small screwdriver ease back the tab of the battery compartment. The compartment will then lift away.

Open Circuit Thermocouple Detection

An error in the probe is shown on the display by a series of bars '- - - -' coupled with the word 'INPUT' at the top of the display. This indicates either that the probe has an error or the temperature is out of range.

SPECIFICATIONS

Environmental

Ambient operating range -30°C to 50°C (-21 to 122°F)

Storage temperature range -40°C to 60°C (-40 to 140°F)

Humidity 0 to 70% R.H.