



1088 Thermocouple Simulator/Calibrator

- * **Measures & simulates 7 types of thermocouple and mV**
- * **Portable**
- * **Automatic or manual cold junction compensation**
- * **Carry Case with compartment for leads**



Introduction

The 1088 temperature calibrator fulfils the need for a portable thermocouple and indicator calibrator.

Temperatures can be entered in either °C or °F and cold junction compensation can be automatically applied or manual entered. Frequently used values can be stored in memory and recalled in sequence by the step key.

Thermocouple types J,K,R,S,T,B,E and mV / μ V can be selected using the sealed membrane keyboard. The value, type and C.J.C. used are displayed on an Alpha Numeric L.C.D. display for unambiguous operation. The temperature may also be converted into its equivalent μ V value and displayed.

The 1088 is housed in a robust case with a carrying strap. A pocket for the instruction manual and test leads, etc is provided. Full operation, including recharging of the batteries, is possible without removal from case. The lid is reversible to facilitate operation.

The 1088 is supplied complete with carry case, Ni-Cad cells, mains charger and a car cigar socket charging lead. Low and flat battery conditions are indicated on the display.



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Specifications

ACCURACY MEASURE

THERMOCOUPLE TYPE	TEMPERATURE RANGE °C	ACCURACY °C
J	-200 to 590	± 0.4
K	-270 to -150 -150 to 780	± 2.5 ± 0.5
T	-200 to 400	± 0.4
R	-50 to 400 400 to 1750	± 1.5 ± 1.0
S	-50 to 100 100 to 1750	± 2.0 ± 1.0
B	50 to 1000 1000 to 1800	± 2.5 ± 1.0
E	-100 to 400	± 0.3

ACCURACY SOURCE

THERMOCOUPLE TYPE	TEMPERATURE RANGE °C	ACCURACY °C
J	-210 to 200 200 to 1200	± 0.1 ± 0.4
K	-270 to -200 -200 to 600 600 to 1250	± 1.0 ± 0.25 ± 0.5
T	-200 to 400	± 0.3
R	-50 to -20 -20 to 800 800 to 1750	± 1.5 ± 0.5 ± 1.5
S	-50 to -20 -20 to 500 500 to 1750	± 1.5 ± 0.5 ± 1.5
B	0 to 1300 1300 to 1800	± 0.5 ± 1.3
E	-100 to 1000	± 0.3

MILLIVOLT MEASURE:

0 to ± 32 mV:

Resolution: 8 µV
Accuracy: ± 0.05% ± 8µV
Input Impedance 1MΩ

MILLIVOLT OUTPUT:

0 to ±8.192 mV:

Resolution: 2µV
Accuracy of Setting: ± 0.05%
Accuracy of Range: ± 0.02%

8.192 mV to 81.92 mV:

Resolution: 20µV
Accuracy of Setting: ± 0.05%
Accuracy of Range: ± 0.02%

All accuracies ± 1 µV

Output Impedance: 10Ω

General Information

Cold Junction Compensation:	Accuracy : ± 0.02°C/°C + 0.1°C
Operating Temperature:	0 to 40 °C
Connections:	4 x 4mm terminals
Power Requirements:	6 x AA size rechargeable cells giving approximately 12 hours continuous operation. The mains recharger supplied gives full recharge in 12 hours, or alternatively, the unit may be recharged from a 12 volt car cigar lighter.
Dimensions:	235 x 150 x 75 mm
Weight	1.3 kg
Optional Extras	Calibration Certificate

Ordering Information

Description	Order Code
Thermocouple Simulator/Calibrator (c/w batteries, charger & carrying case)	1088
N.P.L. Traceable Calibration Certificate	9159
UKAS Calibration Certificate	9112