

Multifunction Thermocouple/mV Calibrator



CL300A
£472



- ✓ High Accuracy: $\pm 0.3^{\circ}\text{C}$
- ✓ Measures Inputs from 10 Common Thermocouple Types plus mV
- ✓ Accepts Mini-plugs and Bare Wires
- ✓ Simple Decade Control of Output
- ✓ 3 Setpoints for Each Thermocouple Type
- ✓ Min/Max Recall
- ✓ Input Protection to 240 Vac
- ✓ Protected by Rubber Boot; Carrying Case Optional

The CL300A multifunction thermocouple/mV calibrator combines high accuracy with ease of use. Its accuracy of $\pm 0.3^{\circ}\text{C}$ ($\pm 0.5^{\circ}\text{F}$) includes all errors, at resolutions of 0.01°C or $^{\circ}\text{F}$ in measure mode and 0.1°C or $^{\circ}\text{F}$ in source mode. Features include min/max recall in measure mode, 3 setpoints per thermocouple type, a large knob for decade control of the output in source mode, and compatibility with both bare-wire and mini-plug inputs.

Specifications

(1-Year at $23 \pm 5^{\circ}\text{C}$; % of Reading Unless Otherwise Noted)

Output Voltage

Range: -10 to 75 mV

Resolution: $1 \mu\text{V}$

Accuracy: $\pm 0.007\%$ rdg, $\pm 10 \mu\text{V}$

Output Impedance: 1Ω

Input Voltage

Range: -10 to 75 mV/thermocouple source/measure

Thermocouple Types:

J, K, T, E, R, S, B, L, U, C

Resolution

Source: $\pm 0.1^{\circ}\text{C}$ or $^{\circ}\text{F}$

Measure: $\pm 0.01^{\circ}\text{C}$ or $^{\circ}\text{F}$

Accuracy:

J: $\pm 0.5^{\circ}\text{C}$; -210 to -100°C , $\pm 0.3^{\circ}\text{C}$; -100 to 1200°C

K: $\pm 0.6^{\circ}\text{C}$; -200 to -100°C , $\pm 0.35^{\circ}\text{C}$; -100 to 1000°C , $\pm 0.5^{\circ}\text{C}$; 1000 to 1372°C

T: $\pm 0.7^{\circ}\text{C}$; -200 to -150°C , $\pm 0.3^{\circ}\text{C}$; -150 to 400°C

E: $\pm 0.5^{\circ}\text{C}$; -200 to -100°C , $\pm 0.3^{\circ}\text{C}$; -100 to 1000°C

R: $\pm 1.8^{\circ}\text{C}$; 0 to 250°C , $\pm 1.0^{\circ}\text{C}$; 250 to 1767°C

S: $\pm 1.8^{\circ}\text{C}$; 0 to 250°C , $\pm 1.0^{\circ}\text{C}$; 250 to 1767°C

B: $\pm 1.7^{\circ}\text{C}$; 600 to 1000°C , $\pm 1.2^{\circ}\text{C}$; 1000 to 1820°C

L: $\pm 0.5^{\circ}\text{C}$; -200 to -100°C , $\pm 0.4^{\circ}\text{C}$; -100 to 900°C

U: $\pm 0.7^{\circ}\text{C}$; -200 to 0°C , $\pm 0.3^{\circ}\text{C}$; 0 to 600°C

C: $\pm 0.4^{\circ}\text{C}$; 0 to 1000°C , $\pm 0.7^{\circ}\text{C}$; 1000 to 1800°C , $\pm 1.2^{\circ}\text{C}$; 1800 to 2316°C

Resolution: $1 \mu\text{V}$

Accuracy: $\pm 0.007\%$ rdg, $\pm 10 \mu\text{V}$

Input Impedance: $>1 \text{ M}\Omega$

CJC Temp Offset: $\pm 0.05^{\circ}\text{C}/^{\circ}\text{C}$

outside of $23 \pm 5^{\circ}\text{C}$

Warm-Up Time: 1 minute to specification

Environmental

Operating Temperature: -10 to 55°C (14 to 131°F)

Storage Temperature: -20 to 70°C (-4 to 158°F)

Power Requirement: 9 Vdc

Battery: 9 V alkaline (included)

Optional Power: Ni-Cad battery, AC adaptor/charger

Mechanical

Dimensions:

144.7 H x 80.0 W x 36.3 mm D

(5.7 x 3.15 x 1.43")

Weight: 340 g (12 oz)



CL300A, £472, shown smaller than actual size.



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CL300A	£472	Thermocouple calibrator

Comes with rubber boot, 9 V battery, Type K thermocouple and operator's manual.

Ordering Example: CL300A, thermocouple/millivolt calibrator, £472.

Accessory

Model No.	Price	Description
CL300A-CC	£19.50	Soft carry case
CAL-3-CAL	100	Traceable calibration certificate with test results





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