BETA CALIBRATORS CAL TOOl 25 Thermocouple Calibrator

The BETA CALTool 25 Thermocouple Calibrator provides high accuracy source and measurement of ten common thermocouples, as well as mV. The CALTool 25's accuracy of ± 0.3 °C for Type J T/Cs includes all errors, at resolutions of ± 0.01 °C or °F in measure mode and ± 0.1 °C or °F in source mode. Features including MIN/MAX recall in measure mode, three setpoints per thermocouple range, a large knob for decade control of the output in source mode, and the ability to accept bare T/C wires in addition to mini-plug inputs, makes the CALTool 25 an accurate, easy-to-use instrument for all your thermocouple calibration needs.





Features:

- High accuracy ±0.3°C (Type JT/C – all errors combined)
- Ten (10) common T/C types plus mV
- Accepts both T/C mini-plug and bare T/C wires
- Simple decade control of output
- Three (3) setpoints for each T/C type
- MIN/MAX recall in measure mode
- Input protection to 240 VAC
- Supplied in full rubber boot

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Specifications (1	year at 23°C ±5°C; % of readi	ng unless otherwise noted)	
Output Voltage		CJC Temperature Offset	\pm 0.05 °C/°C outside of 23 \pm 5 °C
Range	-10 to +75.000 mV	Warm-up Time	1 minute to specification
Resolution	1 μV	Environmental	
Accuracy	\pm 0.007 % of reading, \pm 10 μ V	Operating	-10 °C to +55 °C
Output Impedance	≤1 0hm	Storage	-20 °C to +70 °C
Input Voltage		Power Requirements	20 0 10 170 0
Range	-10 to +75.000 mV	Battery	9 Volt alkaline; 006P/ IEC 6F22/
Resolution	1 μV	Dattery	
Accuracy	\pm 0.007 % of reading, \pm 10 μ V		NEDA1604
Input Impedance	>1 MegOhm		Optional NiCad
Thermocouple Sour	ce/Measure		Optional AC adapter/charger
Types	J, K, T, E, R, S, B, L, U, C	Mechanical	
Range	mV	Dimensions	5.7" H x 3.15" W x 1.43" D
Resolution			(144.7 x 80.0 x 36.3 cm)
Source	±0.1°C or °F	Weight	12 ounces (340 grams)
Measure	±0.01°C or °F	Optional Accessories	Carrying Case, Model LCA-05A
Accuracy		Notes:	
J	±0.5 °C; -210 °C to -100 °C	1. Temperature standard ITS-90.	
	±0.3 °C; -100 °C to +1,200 °C		
К	±0.6 °C; -200 °C to -100 °C		
	±0.35 °C; -100 °C to +1,000 °C		
	±0.5 °C; +1,000 °C to +1,372 °C		The CALTool 25 accepts
Т	±0.7 °C; -200 °C to -150 °C	The second s	both mini-plug AND bare
	±0.3 °C; -150 °C to +400 °C		thermocouple wires!
E	±0.5 °C; -200 °C to -100 °C	- cu +	
	±0.3 °C; -100 °C to +1,000 °C		
R	±1.8 °C; 0 °C to 250 °C		
	±1.0 °C; 250 °C to +1,767 °C	Tomporatura	Probes & Kit
S	±1.8 °C; 0 °C to 250 °C		
	±1.0 °C; 250 °C to +1,767 °C		rature probe configurations are
В	±1.7 °C; 600 °C to 1,000 °C		r use with BETA Thermocouple
	±1.2 °C; 1,000 °C to 1,820 °C		All are Type-K, and feature ± 2.2
L	±0.5 °C; -200 °C to -100 °C	°C/±0.75% c	or ±3.9 °F/±0.75% accuracy.
	±0.4 °C; -100 °C to +900 °C		
U	±0.7 °C; -200 °C to 0 °C		
	±0.3 °C; 0 °C to +600 °C		
C	±0.4 °C; 0 to °C 1,000 °C		
	±0.7 °C; 1,000 °C to +1,800 °C	(I and the second seco	
	±1.2 °C; +1,800 °C to +2,316 °C		TP Kit includes probes:
	,,, ,,,,,,		TP-K01 through TP-K06

Need a high performance loop calibrator?



Consider the CALTool 20. With accuracy of $\pm 0.015\%$ of reading and 0.001 mA resolution, the BETA CALTool 20 furnishes significantly extended performance over any competitive calibrator. A % Error function elimnates manual error calculations. The CALTool 20 simulates, powers and measures two-wire transmitters, and can remotely calibrate 4-20 mA devices.

TP-K01 – Bead Probe -50 °C to 200 °C; -58 °F to +392 °F **TP-K02** – Immersion Probe -50 °C to 700 °C; -58 °F to +1,292 °F **TP-K03** — Surface Probe -50 °C to 400 °C; -58 °F to +752 °F **TP-K04** — Piercing Probe -50 °C to 600 °C; -58 °F to +1,122 °F TP-K05 📥 Surface Probe -50 °C to 400 °C; -58 °F to +752 °F TP-K06 — Air & Gas Probe

-50 °C to 800 °C; -58 °F to +1,504 °F

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