

The Tekneka TCAL40 thermocouple calibrator provides precise temperature calibration for up to 8 different types of thermocouples i.e. K, J, T, B, E, N, S, & R. With an accuracy of $\pm 0.025\% + 2$ digits, this calibrator measures and outputs voltage in the range of -10mV to 100mV. It is appropriate for industrial companies involved in the development and verification of measurement chains. Ensure precision and dependability in each measurement by using TCAL40 to enhance your temperature calibration experience.

Features

- It provides an output voltage of up to 100mV
- Large numerical digits with 3" LCD
- Easy to switch between TC to connection type
- Quick shifting of units ($^{\circ}\text{C}/^{\circ}\text{F}$)
- Output voltage/temperature can be adjustable
- By default 30 minutes for auto power off
- Sub-display zone for ambient temperature indication
- Enhanced durability designed for industrial use

Applications

Tekneka TCAL40 is widely used by instrument control technicians, calibration laboratories, industrial field service engineers, quality control professionals, maintenance technicians, and automation and control system engineers.



Technical Specifications

Input/Output Range	Resolution	Accuracy
-10mV to 100mV	0.01mV	$\pm 0.025\% + 2$ dig.

Max. Input Voltage: 30Vpp

Function	Temperature Range	Resolution	Accuracy	Reference Junction Error
Type K	-200 to 1370 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm (0.3^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type J	-200 to 1200 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm (0.3^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type T	-200 to 400 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm (0.3^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type B	600 to 1800 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm (1^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type E	-200 to 950 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm (0.3^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type N	-250 to 1300 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm (0.3^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type S	-20 to 1750 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm (1^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$
Type R	-20 to 1750 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm (1^{\circ}\text{C} + 10\mu\text{V})$	$\pm 0.3^{\circ}\text{C}$

Temperature Coefficient: $\pm 0.02\%$ on 0 to 18 $^{\circ}\text{C}$ and 28 to 50 $^{\circ}\text{C}$

Packing Includes

- Holster
- 2 x Thermocouple (No Wire)
- 6 x AAA Batteries
- Calibration Certificate
- User Manual

Ordering Info

TCAL40..... Thermocouple Calibrator

General Specifications

Units	$^{\circ}\text{C}/^{\circ}\text{F}$
Storage Temperature	-40 to 60 $^{\circ}\text{C}$ (-40 to 140 $^{\circ}\text{F}$)
Operating Temperature	0 to 50 $^{\circ}\text{C}$ (32 to 122 $^{\circ}\text{F}$)
Power Supply	6 x 1.5V
Dimension	205 x 97 x 45mm
Weight	472g
Mains Power Supply	Input: 100 ~ 240V AC, 50 ~ 60Hz 1.8A Output: 12V DC, 2A Max