

# Temperature Calibrator



## Features:

- 6-digit LCD readout
- $\pm 0.02\%$  accuracy
- Automatic calibration
- User selectable auto power-off
- Automatic cold-end temperature offset
- 2-wire/3-wire/4-wire connection is user-selectable

## Specifications:

### OUTPUT FUNCTION

Voltage Range:	100mV; 1V
Output Range:	-10.000 to 110.000mV; 0.000 to 1.1000V
Resolution:	10 $\mu$ V; 0.01mV
Accuracy:	$\pm 0.02\%$ reading + 0.01% range
Resistance Range:	400 $\Omega$
Output Range:	0.00 to 400.00 $\Omega$
Resolution:	0.01 $\Omega$
Accuracy:	$\pm 0.02\%$ reading + 0.02% range

### MEASUREMENT FUNCTION

Voltage Range:	400mV
Output Range:	0.00 to $\pm 450.00$ mV
Resolution:	10 $\mu$ V
Accuracy:	$\pm 0.02\%$ reading + 0.01% range
Resistance Range:	400 $\Omega$
Output Range:	0.00 to 400.00 $\Omega$
Resolution:	0.01 $\Omega$
Accuracy:	$\pm 0.02\%$ reading + 0.02% range

### GENERAL

Power Supply:	Single 9V alkaline battery
Battery Life:	Approx. 12 hours
Ambient Conditions:	-10 to 55 $^{\circ}$ C; $\leq 80\%$ RH
Dimensions:	200x100x40mm w/holster
Weight:	550gw/holster

### OUTPUT FUNCTION

Output Type	Temp Range	Res'n	Output	Accuracy
RT/C	-40 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 100^{\circ}$ C: $\pm 1.5^{\circ}$ C; >100 $^{\circ}$ C: $\pm 1.2^{\circ}$ C	
ST/C	-20 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 100^{\circ}$ C: $\pm 1.5^{\circ}$ C; >100 $^{\circ}$ C: $\pm 1.2^{\circ}$ C	
BT/C	400 to 1800 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 600^{\circ}$ C: $\pm 2.0^{\circ}$ C; 600-800 $^{\circ}$ C: $\pm 1.5^{\circ}$ C; >800 $^{\circ}$ C: $\pm 1.1^{\circ}$ C	
ET/C	-200 to 1000 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq -100^{\circ}$ C: $\pm 0.6^{\circ}$ C; -100-600 $^{\circ}$ C: $\pm 0.5^{\circ}$ C; >600 $^{\circ}$ C: $\pm 0.4^{\circ}$ C	
KT/C	-200 to 1370 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq -100^{\circ}$ C: $\pm 0.6^{\circ}$ C; -100-400 $^{\circ}$ C: $\pm 0.8^{\circ}$ C; 400-1200 $^{\circ}$ C: $\pm 0.7^{\circ}$ C; >1200 $^{\circ}$ C: $\pm 0.9^{\circ}$ C	
JT/C	-200 to 1200 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq -100^{\circ}$ C: $\pm 0.6^{\circ}$ C; -100-800 $^{\circ}$ C: $\pm 0.5^{\circ}$ C; >800 $^{\circ}$ C: $\pm 0.7^{\circ}$ C	
TT/C	-200 to 400 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 400^{\circ}$ C: $\pm 0.6^{\circ}$ C	
NT/C	-200 to 1300 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq -100^{\circ}$ C: $\pm 1.0^{\circ}$ C; -100-900 $^{\circ}$ C: $\pm 0.7^{\circ}$ C; >900 $^{\circ}$ C: $\pm 0.8^{\circ}$ C	
Pt100RTD	-200 to 850 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 0.3^{\circ}$ C; 0-400 $^{\circ}$ C: $\pm 0.5^{\circ}$ C; >400 $^{\circ}$ C: $\pm 0.8^{\circ}$ C	
Cu50RTD	-150 to 150 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 150^{\circ}$ C: $\pm 0.6^{\circ}$ C	

### MEASUREMENT FUNCTION

Input Type	Temp Range	Res'n	Accuracy
RT/C	-40 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 500^{\circ}$ C: $\pm 1.8^{\circ}$ C; >500 $^{\circ}$ C: $\pm 1.5^{\circ}$ C
ST/C	-20 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 500^{\circ}$ C: $\pm 1.8^{\circ}$ C; >500 $^{\circ}$ C: $\pm 1.5^{\circ}$ C
BT/C	400 to 1800 $^{\circ}$ C	1 $^{\circ}$ C	$\leq 800^{\circ}$ C: $\pm 2.2^{\circ}$ C; 800-1000 $^{\circ}$ C: $\pm 1.8^{\circ}$ C; >1000 $^{\circ}$ C: $\pm 1.4^{\circ}$ C
ET/C	-200 to 1000 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 0.9^{\circ}$ C; >0 $^{\circ}$ C: $\pm 1.5^{\circ}$ C
KT/C	-200 to 1370 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 1.2^{\circ}$ C; >0 $^{\circ}$ C: $\pm 0.8^{\circ}$ C;
JT/C	-200 to 1200 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 1.0^{\circ}$ C; >0 $^{\circ}$ C: $\pm 0.7^{\circ}$ C
TT/C	-200 to 400 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 1.0^{\circ}$ C; >0 $^{\circ}$ C: $\pm 0.7^{\circ}$ C
NT/C	-200 to 1300 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 1.5^{\circ}$ C; >0 $^{\circ}$ C: $\pm 0.9^{\circ}$ C
Pt100RTD	-200 to 850 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 0.5^{\circ}$ C; 0-400 $^{\circ}$ C: $\pm 0.7^{\circ}$ C; >400 $^{\circ}$ C: $\pm 0.8^{\circ}$ C
Cu50RTD	-150 to 150 $^{\circ}$ C	0.1 $^{\circ}$ C	$\leq 0^{\circ}$ C: $\pm 0.5^{\circ}$ C; >0 $^{\circ}$ C: $\pm 0.7^{\circ}$ C

### Model

vC14

### Description

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