

TEMPERATURE CALIBRATOR

TECHNICAL DATA

FEATURES

- Measure and source DC voltage, resistance, thermocouple and RTD temperature with a single compact unit
- 6-digit LCD readout with display backlight (selectable)
- Wave filter function
- Automatic cold-end temperature offset
- 2-wire/3-wire/4-wire connection is user-selectable
- Includes set of test leads, set of test probes, alligator clips, softy carrying case, protective holster, fuse, and batteries



SPECIFICATIONS

OUTPUT FUNCTION

DC Voltage Range: 10mV; 1V
Output Range: -10.000 to 110.000mV; 0.000 to 1.1000V
Resolution: 1μV; 10μV
Accuracy: ±0.02% reading + 0.01% range
Resistance Range: 400Ω, 4kΩ
Output Range: 0.00 to 400.00Ω; 0.0000 to 4.0000kΩ
Resolution: 0.01Ω, 0.1Ω
Accuracy: ±0.02% reading + 0.02% range
MEASUREMENT FUNCTION
DC Voltage Range: 50mV, 500mV
Output Range: -5.000 to 55.000mV; -50.00 to 550.00mV
Resolution: 1μV, 10μV
Accuracy: ±0.02% reading + 0.01% range
Resistance Range: 500Ω, 5kΩ
Output Range: 0.00 to 550.00Ω; 0.0000 to 5.5000kΩ
Resolution: 0.01Ω, 0.1Ω
Accuracy: ±0.05% reading + 0.02% range
Continuity Range: 500Ω; beeper sounds at ≤50Ω
Power Supply: 4 x "AAA" alkaline batteries
Dimensions: 200 x 100 x 40mm w/ holster
Weight: 550g w/ holster

SPECIFICATIONS

OUTPUT FUNCTION

I/O Type	Temp. Range	Res'n	Output Acc'y
RT/C	0 to 1760°C	1°C	≤100°C: ±1.5°C; >100°C: ±1.2°C
ST/C	0 to 1760°C	1°C	≤100°C: ±1.5°C; >100°C: ±1.2°C
BT/C	600 to 1820°C	1°C	≤800°C: ±1.5°C; >800°C: ±1.1°C
ET/C	-200.0 to 1000.0°C	0.1°C	≤-100°C: ±0.6°C; -100-600°C: ±0.5°C; >600°C: ±0.4°C
KT/C	-200.0 to 1372.0°C	0.1°C	≤-100°C: ±0.6°C; -100-400°C: ±0.5°C; 400-1200°C: ±0.7°C; >1200°C: ±0.9°C
JT/C	-200.0 to 1200.0°C	0.1°C	≤-100°C: ±0.6°C; -100-800°C: ±0.5°C; >800°C: ±0.7°C
TT/C	-250.0 to 400.0°C	0.1°C	≤400°C: ±0.6°C
NT/C	-200.0 to 1300.0°C	0.1°C	≤-100°C: ±1.0°C; -100-900°C: ±0.7°C; >900°C: ±0.8°C
LT/C	-200.0 to 900.0°C	0.1°C	≤0°C: ±0.7°C; >0°C: 0.5°C
UT/C	-200.0 to 600.0°C	0.1°C	≤0°C: ±0.7°C; >0°C: 0.5°C
PT100 RTD	-200.0 to 800.0°C	0.1°C	≤0°C: ±0.3°C; 0-400°C: ±0.5°C; >400°C: ±0.8°C
PT200 RTD	-200.0 to 630.0°C	0.1°C	≤100°C: ±0.8°C; 100-300°C: ±0.9°C; >300°C: ±1.0°C
PT500 RTD	-200.0 to 630.0°C	0.1°C	≤100°C: ±0.4°C; 100-300°C: ±0.5°C; >300°C: ±0.7°C
PT1000 RTD	-200.0 to 630.0°C	0.1°C	≤100°C: ±0.2°C; 100-300°C: ±0.5°C; >300°C: ±0.7°C
Cu10 RTD	-100.0 to 260.0°C	0.1°C	±1.8°C
Cu50 RTD	-50.0 to 150.0°C	0.1°C	±0.6°C

ORDERING INFORMATION

VC14+..... Temperature Calibrator
 CERTICA4 NIST Calibration Certificate
 VC14+-NIST Calibrator & NIST