

## TEMPERATURE SIMULATOR

## TECHNICAL DATA

### FEATURES

- Source 8 thermocouple types, including R,S,B,E,K,J,T,N; and 7 RTD types, including Pt 10 (385), Pt100 (385), Pt200 (385), Pt500 (385), Pt1000 (385), Cu10, Cu50; plus volts and ohms
- Basic accuracy of 0.05%
- Internal cold junction compensation
- Easy to read 6-digit LCD readout
- Quick reset with zero button
- User selectable auto-power-off
- Selectable °F or °C
- Includes set of industrial test leads, alligator clips, protective holster, thermocouple adapter, user manual and batteries

### SPECIFICATIONS

Output	Range	Output Range	Resolution	Accuracy
DCV	100mV	-10.00mV to 110.00mV	0.01mV	0.05% rdg. + 30mV
	1000 mV	-100.00mV to 1100.00mV	0.1mV	0.05% rdg. + 0.3mV
OHM	400Ω	0.0 to 400.0Ω	0.1Ω	±0.05% rdg. + 0.2Ω
	400Ω	0 to 4000Ω	1Ω	±0.05% rdg. + 2Ω
TC	R	-40 to 1760°C	1°C	±0.05% rdg. +3°C (≤100°C) ±0.05% rdg. +2°C (>100°C)
	S	-20 to 1760°C	1°C	
	B	400 to 1800°C	1°C	±0.05% rdg. +3°C (400 to 600°C) ±0.05% rdg. +2°C (>600°C)
	E	-200.0 to 1000.0°C	0.1°C	
	K	-200.0 to 1370.0°C	0.1°C	
	J	-200.0 to 1200.0°C	0.1°C	
	T	-200.0 to 400.0°C	0.1°C	
	N	-200.0 to 1300.0°C	0.1°C	
RTD	Cu10	-10.0 to 250.0°C	0.1°C	±0.05% rdg. +0.6°C
	Cu50	-50.0 to 150°C	0.1°C	
	Pt10 385	-200.0 to 850°C	0.1°C	±0.05% rdg. +0.6°C
	Pt100 385	-200.0 to 850°C	0.1°C	
	Pt200 385	-200.0 to 630°C	0.1°C	
	Pt500 385	-200.0 to 630°C	0.1°C	
	Pt1000 385	-200.0 to 630°C	0.1°C	



### SPECIFICATIONS

**Operating Temperature Range:** 0 to 50°C

**Operating Humidity Range:** ≤ 80% RH

**Power Supply:** 2 AA batteries

**Dimensions:** 180 x 90 x 47mm

**Weight:** 500g

### ORDERING INFORMATION

**R2800** ..... Temperature Simulator

**CERTICA2** ..... NIST Calibration Certificate

**R2800-NIST**..... Temperature Simulator & NIST