

# Temperature - Thermocouples and RTD Portable Calibrators / Simulators

## WRS-14 Temperature Calibrator



### Features:

- Read and source in °C, °F, Ω or mV
- Eight thermocouple types and PT100 / Cu50
- K, J, E, T, R, S, N, B and DC mV/V
- Internal Temperature Reference
- Large 5 digit LCD display
- 9V alkaline battery powered
- Unit can be re-calibrated via keypad

C/w case, rubber holster, leads and alligator clips

### Specification:

<b>Output &amp; Read -</b>	Thermocouples and PT100 0 ~ 400Ω (1mA excitation)
<b>Output Volts - Read Volts -</b>	-100.00 ~ 1100.00 mV ± 400.00mV
<b>Accuracy - (output only)</b>	± 1.2 °C or better - depends on PT100 or T/C type ± 0.02% ± 30µV
<b>Resolution -</b>	0.1 °C for K,J,E,T,N,PT100 1 °C for types R,S,B 10µV on 100mV range

## WRS-710 Thermocouple Calibrator

### Features:

- Read and source
- Eight thermocouple types selectable
- K, J, E, T, R, S, N, B and DC mV
- Internal Temperature Reference
- Large 5 digit LCD display
- 6 x AAA alkaline battery powered
- Standard thermocouple mini connectors

C/w carry case and K mini plug

### Specification:

<b>Output &amp; Read -</b>	-250 ~ +1800 °C (T/C type dependant)
<b>Output - Read -</b>	-10.00 ~ 75.00 mV -10.00 ~ 75.00 mV
<b>Accuracy -</b>	± (0.3°C + 10µV) (T/C type dependant) ± 0.025% ± 1 count
<b>Resolution -</b>	0.1 °C 0.01 mV



## WRS-720 RTD Calibrator

### Features:

- Read and source
- RTD excitation 0.1mA ~ 3.0mA (400Ω)
- Six RTD types and Ohms selectable
- PT10 / PT50 / PT100 / PT200 / PT500 / PT1000
- Measure 2,3 or 4 wire RTD
- Large 5 digit LCD display
- 9V alkaline battery powered

C/w carry case, leads and alligator clips

### Specification:

<b>Output &amp; Read -</b>	-200 ~ +630 °C (RTD type dependant)
<b>Output - Read -</b>	0 ~ 3200Ω 0 ~ 3200Ω
<b>Accuracy -</b>	±0.2°C ±0.1 to 1Ω (Range dependant)
<b>Resolution -</b>	0.1 °C 0.01 or 0.1Ω



Type	Temperature °C (continuous)	Temperature °C (short term)	Tolerance class one (°C)	Tolerance class two (°C)	IEC Color code	BS Color code	ANSI Color code
K	0 to +1100	-180 to +1300	±1.5 between -40 and 375 ±0.004×T between 375 and 1000	±2.5 between -40 and 333 ±0.0075×T between 333 and 1200			
J	0 to +700	-180 to +800	±1.5 between -40 and 375 ±0.004×T between 375 and 750	±2.5 between -40 and 333 ±0.0075×T between 333 and 750			
N	0 to +1100	-270 to +1300	±1.5 between -40 and 375 ±0.004×T between 375 and 1000	±2.5 between -40 and 333 ±0.0075×T between 333 and 1200			
R	0 to +1600	-50 to +1700	±1.0 between 0 and 1100 ±[1+0.003×(T-1100)] between 1100 and 1600	±1.5 between 0 and 600 ±0.0025×T between 600 and 1600			Not defined
S	0 to 1600	-50 to +1750	±1.0 between 0 and 1100 ±[1+0.003×(T-1100)] between 1100 and 1600	±1.5 between 0 and 600 ±0.0025×T between 600 and 1600			Not defined
B	+200 to +1700	0 to +1820	Not Available	±0.0025×T between 600 and 1700	No standard use copper wire	No standard use copper wire	Not defined
T	-185 to +300	-250 to +400	±0.5 between -40 and 125 ±0.004×T between 125 and 350	±1.0 between -40 and 133 ±0.0075×T between 133 and 350			
E	0 to +800	-40 to +900	±1.5 between -40 and 375 ±0.004×T between 375 and 800	±2.5 between -40 and 333 ±0.0075×T between 333 and 900			

Source: [www.wikipedia.org](http://www.wikipedia.org)

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