

Thermocouple Process Calibrator is a exactitude measurement and source handhold instrument, it can be use to calibrate the Thermocouple instrument. Thermocouple Process Calibrator can measure or simulate 8 types of difference Thermocouple (°C or °F), and measure or simulate the millivolt. But is could not use to measurement or source at a same time.

SPECIAL FEATURES :

- Maximum voltage applied between any jac and earth ground or between any two jack : 30V
- Sources and measures 7 thermocouple type devices (J, K, T, E, R, S, B, N) or mV (-10mV ~ 100mV)
- Large 5 digit LCD with full angel
- High accuracy maximum up to 0.3°C and 0.025% for mV
- With standard jack for external power supply

GENERAL SPECIFICATIONS :

- * Thermocouple Type : J, K, T, E, R, S, B, N
- * Measure or Simulating a Thermocouple
- * Ambient temperature compensation and display
- * Operating Temperature : 0°C ~ 50°C
- * Storage Temperature : -40°C ~ 60°C
- * Operating altitude : 3000 meters maximum.
- * Temperature Coefficient : ± 0.02% / °C on 0°C ~ 18°C and 28°C ~ 50°C
- * Relative humidity : 95%upto 30°C, 75% upto 40°C, 45% upto 50°C
- * Shock : Random 2g. 5Hz to 500Hz.
- * Fuse : F 0.125A / 250V
- * Temperature Resolution : J,K,T,E,B,R,S,N 0.1°C or °F
- * Temperature error : ± (0.3 + 10uV)
- * Voltage range : -10mV ~ 75mV
- * Voltage resolution : 0.01mV
- * Voltage accuracy : ± (0.025% + 2 counts)
- * LCD size : 64 x 42mm
- * Power Supply : 1.5V AAA x 6 batteries.
- * External power option
- * Dimension : 205(L) x 97(W) x 45(H)mm
- * Weight : Approx. 472g. (including battery)



Preliminary Data

ELECTRICAL SPECIFICATIONS : KM-CAL-710

Measure (input) / Simulate (output) Millivolt specification

| Input / Output Range | Resolution | Accuracy |
|----------------------|------------|----------------------|
| -10mV ~ 100mV | 0.01mV | ±(0.025% + 2 counts) |

Maximum Input Voltage : 30Vpp.

Measure (input) / Simulate (output) Thermocouple Specification

| Function | Range | Resolution | Accuracy | Reference Junction Error |
|----------|-------------------------------|------------|-----------------|--------------------------|
| J TYPE | -200 ~ 1200°C / -328 ~ 2192°F | 0.1°C / °F | ±(0.3°C + 10 V) | ± 0.3°C |
| K TYPE | -200 ~ 1370°C / -328 ~ 2498°F | | | |
| T TYPE | -200 ~ 400°C / -328 ~ 752°F | | | |
| E TYPE | -200 ~ 950°C / -328 ~ 1742°F | | | |
| Function | Range | Resolution | Accuracy | Reference Junction Error |
| R TYPE | -20 ~ 1750°C / -4 ~ 3182°F | 1°C / °F | ±(1°C + 10 V) | ± 0.3°C |
| S TYPE | -20 ~ 1750°C / -4 ~ 3182°F | | ±(1°C + 10 V) | ± 0.3°C |
| B TYPE | 600 ~ 1800°C / 1112 ~ 3272°F | | ±(1°C + 10 V) | ± 0.3°C |
| N TYPE | -250 ~ 1300°C / -418 ~ 2372°F | 0.1°C / °F | ±(0.3°C + 10 V) | ± 0.3°C |

Maximum Input Voltage : 30Vpp.

Note: All Specification are Subject to change without prior notice.