



An ISO 9001:2008 Company

® THERMOCOUPLE CALIBRATOR Model KM-CAL-802

This is a Thermocouple "Source" & "Sink" Calibrator. It gives output of DC Volts & output for R, S, B, E, K, J, T & N Thermocouples. It measures DC Voltage & also R, S, B, E, K, J, T & N Thermocouples. It has 5 digit LCD display & extremely high accuracy 0.05%.



GENERAL SPECIFICATIONS

- * Basic Accuracy : $\pm 0.05\%$
- * Display : 5 Digit LCD display.
- * Max. Allowable Voltage : 30V..
- * Operating Temperature Range : 0 ~ 50°C.
Humidity range : $\leq 80\%$ RH
- * Storage Temperature Range : $\leq -10^\circ\text{C} \sim 55^\circ\text{C}$
Humidity range : $\leq 90\%$ RH
- * Temperature Coefficient : $0.1 \times$ (dedicated Accuracy) % / $^\circ\text{C}$ ($5^\circ\text{C} \sim 18^\circ\text{C}$, $28^\circ\text{C} \sim 40^\circ\text{C}$)
- * Power : 1.5V x 2 alkaline batteries.
- * Power Consumption : about 50m / 3V.
- * Dimension : 180 (L) x 90 (W) x 47 (D) mm (with protector)
- * Weight : About 500g

SAFETY :

Complies with IEC1010 (safety standard issued by International Electrician Committee)

ACCESSORIES :

User Manual, Test lead CF-36, (Clips for probe), Holster & Carrying case.



Preliminary Data

ELECTRICAL SPECIFICATIONS - KM-CAL-802

OUTPUT FUNCTION

| Output | Range | Output Range | Resolution | Accuracy | Remarks |
|---------------|-------------------|-------------------|---|---|--|
| DC Voltage | 100mV | -10.00 ~ 110.00mV | 0.01mV | $\pm 0.05\% \pm 30\mu\text{V}$ | The max. Output current $\pm 2\text{mA}$ |
| | 1V | -0.1000 ~ 1.1000V | 0.1mV | $\pm 0.05\% \pm 30\text{mV}$ | |
| Thermo-couple | R | -40 ~ 1760°C | 1°C | $\pm 0.05\% + 3$ (Less than or equals to 100°C) $\pm 0.05\% + 2$ (more than 100°C) | Employs ITS-90 temperature standard The accuracy does not include the error of interior temperature compensation sensor The accuracy does not include the impact of interior thermoelectric force. |
| | S | -20 ~ 1760°C | 1°C | | |
| RTD | B | 400 ~ 1800°C | 1°C | $\pm 0.05\% + 3$ (Less than or equals to 600°C) $\pm 0.05\% + 2$ (more than 600°C) | |
| | E | -200.0 ~ 1000.0°C | 0.1°C | | |
| | K | -200.0 ~ 1370°C | 0.1°C | | |
| | J | -200.0 ~ 1200.0°C | 0.1°C | | |
| | T | -200.0 ~ 400.0°C | 0.1°C | | |
| N | -200.0 ~ 1300.0°C | 0.1°C | $\pm 0.05\% + 20$ (Less than or equals to -100°C) $\pm 0.05\% + 10$ (more than -100°C) | | |

INPUT FUNCTION

| Output | Range | Output Range | Resolution | Accuracy | Remarks |
|-----------------|---------------------|---------------------|------------|---|--|
| DC Voltage DCmV | 100mV | -10.00 ~ 110.00mV | 0.01mV | $\pm 0.05\% \pm 3$ | Input Resistance : 1MΩ |
| Thermocouple TC | R | -40°C ~ 1760°C | 1°C | $\pm 0.05\% + 3$ (Less than or equals to 100°C) $\pm 0.05\% + 2$ (more than 100°C) | Input Resistance : 1MΩ Employs ITS-90 temperature standard The accuracy does not include the error of interior temperature compensation sensor The accuracy does not include the impact of interior thermoelectric force. |
| | S | -200°C ~ 1760°C | 1°C | | |
| | B | 400°C ~ 1800°C | 1°C | $\pm 0.05\% + 3$ (Less than or equals to 600°C) $\pm 0.05\% + 2$ (more than 600°C) | |
| | E | -200.0°C ~ 1000.0°C | 0.1°C | | |
| | K | -200.0°C ~ 1370°C | 0.1°C | $\pm 0.05\% + 20$ (Less than or equals to -100°C) $\pm 0.05\% + 10$ (more than -100°C) | |
| | J | -200.0°C ~ 1200.0°C | 0.1°C | | |
| | T | -200.0°C ~ 400.0°C | 0.1°C | | |
| N | -200.0°C ~ 1300.0°C | 0.1°C | | | |

All Specifications are subject to change without prior notice.



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