



An ISO 9001:2008 Company



# TEMPERATURE CALIBRATOR

## Model KM-CAL-801

This Calibrator is a source for Volts, Ohms RTD & Thermocouples. It gives output of Volts in 2 ranges 100mV & 1000mV & also gives output of Ohms in 2 ranges 400Ω & 4000Ω & output for calibrating R, S, B, E, K, J, T & N type Thermocouples. It also gives output for RTD Pt1000 & Cu50. It has very high accuracy 0.05%.

**NEW**



### 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 :  $0.1 \times (\text{dedicated Accuracy}) \% / ^\circ\text{C}$  ( $5^\circ\text{C} \sim 18^\circ\text{C}$ ,  $28^\circ\text{C} \sim 40^\circ\text{C}$ )
- \* Power : 1.5V x 2 alkaline batteries.
- \* Power Consumption : about 60m / 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.

### ELECTRICAL SPECIFICATIONS - KM-CAL-801

Preliminary Data

#### OUTPUT FUNCTION

Output	Range	Output Range	Resolution	Accuracy	Remarks
DC Voltage	100mV	-10.00 ~ 110.00mV	0.01mV	±0.05% ± 30μV	The max. Output current ± 2mA
	1000mV	-100.0 ~ 1100.0mV	0.1mV	±0.05% ± 0.3mV	
OHM	400Ω	0.0 ~ 400.0Ω	0.1Ω	±0.05% ± 0.2Ω	±0.5 ~ ±3mA Affiliated resistance of test lead is excluded. The range of incentive current is from 0.05mA to 3mA & the maximum output is less than or equals to 2V.
	4000Ω	0 ~ 4000Ω	1Ω	±0.05% ± 2Ω	±0.05 ~ ±0.3mA Affiliated resistance of test lead is excluded. The range of incentive current is from 0.05mA to 3mA & the maximum output is less than or equals to 2V.
Thermo-couple	R	-40 ~ 1760°C	1°C	±0.05% + 3°C (Less than or equals to 100°C)	Employs ITS-90 temperature standard The accuracy does not include the error of interior temperature compensation sensor the range of interior temperature compensation sensor is from -10 to 50°C & the error compensation is less than or equals to 0.5°C
	S	-20 ~ 1760°C	1°C	±0.05% + 2°C (more than 100°C)	
	B	400 ~ 1800°C	1°C	±0.05% + 3°C (400 ~ 600°C) ±0.05% + 2°C (more than 600°C)	
	E	-200.0 ~ 1000.0°C	0.1°C	±0.05% + 2°C (Less than or equals to -100°C) ±0.05% + 1°C (more than -100°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		
RTD	Cu10	-10.0°C ~ 250.0°C	0.1°C	±0.05% + 0.6°C	Incentive Current is ±0.5 ~ ± 3mA When the incentive current is ± 0.1 ~ 0.5mA, add 0.5°C additional error
	Cu15	-50.0°C ~ 150.0°C	0.1°C		
	Pt10 385	-200.0°C ~ 850.0°C	0.1°C		Incentive Current is ±0.05 ~ ± 0.3mA
	Pt100 385	-200.0°C ~ 850.0°C	0.1°C		
	Pt200 385	-200°C ~ 630°C	0.1°C		
	Pt500 385	-200.0 ~ 1200.0°C	0.1°C		
	Pt1000 385	-200.0°C ~ 630.0°C	0.1°C		

All Specifications are subject to change without prior notice.



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