

GENERAL SPECIFICATIONS

- * **Basic Accuracy** : $\pm 0.05\%$
- * **Display** : 4 Digit LCD display.
- * **Max. Allowable Voltage** : 30V
(within terminals or between terminal & earth ground).
- * **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 x (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 70m / 3V.
- * **Dimension** : 180 (L) x 90 (W) x 47 (D) mm (with protector)
- * **Weight** : About 500g



SAFETY : Complies with IEC1010 (safety standard issued by IEC)

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

ELECTRICAL SPECIFICATIONS - KM-CAL-803

Preliminary Data

OUTPUT FUNCTION

Output	Range	Output Range	Resolution	Accuracy	Remarks	
Simulate Resistance OHM	400 Ω	0.0 ~ 400.0 Ω	0.1 Ω	$\pm 0.05\% \pm 2$	Incentive current is set as $\pm 0.5 \sim \pm 3\text{mA}$ When the incentive current is set as $\pm 0.1 \sim 0.5\text{mA}$, add an extra 0.1 Ω to additional error. The accuracy does not include lead resistance	
	4000 Ω	0 ~ 4000 Ω	1 Ω	$\pm 0.05\% \pm 2$	Incentive current is set as $\pm 0.05 \sim \pm 0.3\text{mA}$ The accuracy does not include lead resistance	
Thermal resistance RTD	Cu10	-10.0 $^{\circ}\text{C} \sim 250.0^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm 0.05\% + 6$	Incentive current is set as $\pm 0.5 \sim \pm 3\text{mA}$ When the incentive current is set as $\pm 0.1 \sim 0.5\text{mA}$, add an extra 0.5 $^{\circ}\text{C}$ to additional error.	Employs Pt(385) standard temperature The accuracy does not include lead resistance.
	Cu50	-50.0 $^{\circ}\text{C} \sim 150.0^{\circ}\text{C}$				
	Pt10	-200.0 $^{\circ}\text{C} \sim 850.0^{\circ}\text{C}$				
	Pt100	-200.0 $^{\circ}\text{C} \sim 850.0^{\circ}\text{C}$				
	Pt200	-200 $^{\circ}\text{C} \sim 630^{\circ}\text{C}$			Incentive current is set as $\pm 0.05 \sim \pm 0.3\text{mA}$	
	Pt500	-200 $^{\circ}\text{C} \sim 630^{\circ}\text{C}$				
	Pt1000	-200.0 $^{\circ}\text{C} \sim 630.0^{\circ}\text{C}$				

INPUT FUNCTION

Input	Range	Input Range	Resolution	Accuracy	Remarks	
Resistance OHM	500 Ω	0.0 ~ 500.0 Ω	0.1 Ω	$\pm 0.05\% \pm 2$	Measurement current : about 1mA Open Circuit Voltage : about 2.5V The accuracy does not include lead resistance	
	5000 Ω	0 ~ 5000 Ω	1 Ω	$\pm 0.05\% \pm 2$	Measurement current : about 1mA Open Circuit Voltage : about 2.5V The accuracy does not include lead resistance	
Thermal resistance RTD	Cu10	-10.0 $^{\circ}\text{C} \sim 250.0^{\circ}\text{C}$	1 $^{\circ}\text{C}$	$\pm 0.05\% + 0.6^{\circ}\text{C}$	The Incentive current is set as : $\pm 0.5 \sim \pm 3\text{mA}$ When the incentive current is set as $\pm 0.1 \sim 0.5\text{mA}$, add an extra 0.5 $^{\circ}\text{C}$ to additional error.	
	Cu50	-50.0 $^{\circ}\text{C} \sim 150.0^{\circ}\text{C}$				
	Pt10	-200.0 $^{\circ}\text{C} \sim 850.0^{\circ}\text{C}$				
	Pt100	-200.0 $^{\circ}\text{C} \sim 850.0^{\circ}\text{C}$				
	Pt200	-200 $^{\circ}\text{C} \sim 630^{\circ}\text{C}$			Incentive current is set as $\pm 0.05 \sim \pm 0.3\text{mA}$	
	Pt500	-200 $^{\circ}\text{C} \sim 630^{\circ}\text{C}$				
	Pt1000	-200.0 $^{\circ}\text{C} \sim 630.0^{\circ}\text{C}$				

All Specifications are subject to change without prior notice.