

FEATURES :

- * Non-contact AC Voltage sensing.
- * NCV-LED indicator.
- * Diode & Continuity test.
- * Over-range Indication.
- * Backlight LCD Display
- * Low battery indication.
- * Automatic polarity display.



GENERAL SPECIFICATIONS :

- * Display : 3½ Digit 1999 Counts Backlight LCD Display.
- * Operating Temperature : 0 ~ 40°C, R.H. <75%.
- * Storage Temperature : -15 ~ 50°C
- * Power Supply : 9V Battery.
- * Dimension : 158(L) x 79(W) x 47(H) mm
- * Weight : approx. 300g.



Preliminary Data

ELECTRICAL SPECIFICATIONS : KM 4001

DC VOLTAGE

Range	Resolution	Accuracy
200 mV	100 μV	±(0.5% rdg + 3 dgts)
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
1000 V	1 V	±(0.8% rdg + 3 dgts)

Input Impedance : 10MΩ

Overload protection : 250V DC or AC peak value in 200mV range.
1000VDC or AC peak value for other ranges.

AC VOLTAGE

Range	Resolution	Accuracy
2 V	1 mV	±(0.8% rdg + 5 dgts)
20 V	10 mV	
200 V	100 mV	
750 V	1 V	±(1.2% rdg + 5 dgts)

Input Impedance : 10MΩ

Overload protection : 1000VDC or AC peak value for other ranges.

Frequency Response : 40 ~ 200Hz
Display : sine wave RMS (average response)

DC CURRENT

Range	Resolution	Accuracy
200 μA	0.1 μA	±(1.2% rdg + 3 dgts)
2000 μA	1 μA	
20 mA	10 μA	
200 mA	100 μA	±(1.5% rdg + 3 dgts)
2 A	1 mA	±(1.8% rdg + 3 dgts)
10 A	10 mA	

Overload protection : 0.2A / 250V fast-blow fuse.

AC CURRENT

Range	Resolution	Accuracy
200 μA	0.1 μA	±(1.2% rdg + 3 dgts)
2 mA	1 μA	
20 mA	10 μA	
200 mA	100 μA	±(1.5% rdg + 3 dgts)
2 A	1 mA	±(1.8% rdg + 3 dgts)
10 A	10 mA	

Overload protection : 0.2A / 250V fast-blow fuse.

RESISTANCE

Range	Resolution	Accuracy
200 Ω	0.1 Ω	±(1.0% rdg + 3 dgts)
2 kΩ	1 Ω	±(1.0% rdg + 2 dgts)
20 kΩ	10 Ω	
200 kΩ	100 Ω	
2 MΩ	1 kΩ	±(1.2% rdg + 5 dgts)
20 MΩ	10 kΩ	

Open circuit Voltage : less than 1V

Overload protection : 250V DC or AC peak value, less than 10seconds.

Note : At the 200Ω range, first we should make the test leads short, measure the leads resistance, & then subtracted from the measured.

DIODE & CONTINUITY TEST

Diode Test Voltage is 1.5V, current is 0.6mA, the diode forward voltage drop shows that the approximation.
Built-in buzzer sounds if resistance is less than 50Ω.

TEMPERATURE

Range	Resolution	Accuracy
-40 ~ 1000°C	1 °C	±(0.75%+3dgts)<400°C
		±(1.5%+5dgts)≥400°C
-40 ~ 1832°F	1 °F	±(0.75%+5dgts)<450°F
		±(1.5%+15dgts)≥450°F

Sensors : Ni-Cr-Silicon nickel thermocouple.

FREQUENCY

Range	Resolution	Accuracy
200 kHz	100 Hz	±(1.5%rdg + 15dgts)

All Specifications are subject to change without prior notice.