

# 400A AC DIGITAL CLAMPMETER MODEL-KM 1002

KM 1002 Digital Clampmeter has been designed & tested according to IEC publication 61010:Safety requirements for electronic measuring Apparatus. User Manual contains warnings & safety rules which must be observed by the user to ensure safe operation of the instrument & retain it in safe condition. Therefore read through these operating instructions before using the instrument.



### FEATURES :

- \* Safety design conforming to the IEC61010.
- \* Data hold switch for easy reading in dimly light or hard-to-read locations.
- \* Beeper permits easy continuity check.
- \* Provides a dynamic range of 4,000 counts full scale.
- \* Uses shrouded transformer jaws to further improve safety.
- \* Non-contact Voltage sensing.
- \* Data Hold & MAX Function.
- \* Auto Power Off.
- \* Diode & Continuity Test.

### GENERAL SPECIFICATIONS :

- Display : 3½ Digit 1999 counts Liquid crystal display.
- Low Battery Warning shown on the display.
- Over range indication : "OL" is shown on the display.
- Response time : Approx. 3 seconds.
- Sample Rate : about 3 time per second
- Temperature & Humidity for guaranteed Accuracy : 23 ± 5°C, relative humidity upto 85% without condensation.
- Current consumption : approx. 1mA max.
- Standards : IEC61010-1
- Withstand Voltage : 3700V AC (RMS 40~50Hz) for 1 minute between electrical circuit & housing case.
- Insulation Resistance : 10M or greater at 600V between electrical circuit & housing case.
- Operating Temperature & Humidity : 0°C ~ 40°C; 85% R.H. without condensation.
- Storage Temperature & Humidity : -20°C ~ 60°C; 85% R.H. without condensation.
- Power Supply : 2 AAA or DC 1.5V battery.
- Dimension : 186(L) x 65(W) x 28.5(D)mm
- Weight : approx. 166g. (including battery)
- Accessories : Test lead, User Manual, Battery & Carrying case.



Preliminary Data

## ELECTRICAL SPECIFICATIONS :KM 1002

### AC CURRENT (40 ~ 400Hz)

Range	Resolution	Accuracy
2 A	1 mA	±(2.5% rdg + 5 dgts)
20 A	10 mA	
400 A	100 mA	

### RESISTANCE

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

### AC VOLTAGE (40 ~ 400Hz)

Range	Resolution	Accuracy
2 V	1 mV	±(1.2% rdg + 3 dgts)
20 V	10 mV	
200 V	100 mV	
600 V	1 V	

### DC VOLTAGE

Range	Resolution	Accuracy
200 mV	0.1 mV	±(0.8% rdg + 3 dgts)
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
600 V	1 V	

### DIODE & CONTINUITY TEST

Range	Displaying Value
➔	Forward voltage drop of diode
)))	If the resistance is less than 50Ω, buzzer sounds

Range	Test Condition
➔	Forward DCA is approx. 1mA, backward voltage is approx. 3V
)))	Open voltage is approx. 3V

All Specifications are subject to change without prior notice.