


## 3¾ DIGIT 1000A AC DUAL DISPLAY DIGITAL CLAMP METER

15 FUNCTIONS 34 RANGES

Model KM 2783

### GENERAL SPECIFICATIONS :

- \* Sensing : Average sensing.
- \* Jaw opening size : 45 mm
- \* Display : 3¾ digit LCD with a max. Reading of 3999.
- \* Range Selection : Autorange selection
- \* Polarity : Automatic negative polarity indication
- \* Zero adjustment : Automatic
- \* Over range indication : only the "OL" display
- \* Low battery indication : The "  " is display when the battery Voltage is below 7.2V.
- \* Auto Power Off : 30 minutes after stopping the switch or no push button, the meter automatically enter to power off mode. Push button or run switch, auto power off disable.
- \* Operating Temperature : 0 ~ 40°C, Humidity < 80% R.H.
- \* Storage Temperature : -20 ~ 60°C, Humidity < 90% R.H.
- \* Power Supply : 9V zinc - carbon battery.
- \* Dimension : 225(H) x 77(W) x 45(D) mm
- \* Weight : approx. 330g. (Including battery)

### SAFETY :

- Safety Standards : The meter is up to the standards of IEC 1010 double insulation, Pollution Degree 2, Overvoltage CAT II

### ACCESSORIES :

Battery, Manual, Test leads(1 pair), Carrying Case.



Preliminary Data

### ELECTRICAL SPECIFICATIONS - KM 2783

Accuracies are  $\pm$ (% of reading + digit) at 23°C  $\pm$  5°C Less than 70% R.H.

#### AC CURRENT

Range	Resolution	Accuracy	Frequency
40 A	0.01 A	$\pm$ (2.5%rdg + 25dgts)	50-60Hz
400 A	0.1 A	$\pm$ (2.0%rdg + 20dgts)	
1000 A			
0-800	1 A	$\pm$ (2.5%rdg + 25dgts)	50-60Hz
800-1000		$\pm$ (5.5%rdg + 25dgts)	

Average sensing, calibrated to rms of sine wave  
**Overload protection** : 1000Arms within 60 seconds.

#### DC VOLTAGE

Range	Resolution	Accuracy
400 mV	0.1 mV	$\pm$ (0.5%rdg + 7dgts)
4 V	1 mV	
40 V	10 mV	
400 V	100 mV	
1000 V	1 V	$\pm$ (0.8%rdg + 7dgts)

**Overload protection** : 1000V DC/750Vrms AC  
**Impedance** : 10M  $\Omega$ , More then 100M  $\Omega$  on 400mV scale

#### CAPACITANCE

Range	Resolution	Accuracy
40 nF	10 pF	$\pm$ (3.5%rdg + 30dgts)
400 nF	100 pF	
4 F	1 nF	$\pm$ (2.5%rdg + 25dgts)
40 F	10 nF	
100 F	100 nF	$\pm$ (5.0%rdg + 20dgts)

**Overload protection** : 250V DC/250Vrms AC

#### AC VOLTAGE

Range	Resolution	Accuracy	Frequency
400 mV	0.1 mV	$\pm$ (3.0%rdg + 15dgts)	50-400Hz
4 V	1 mV	$\pm$ (1.0%rdg + 15dgts)	
40 V	10 mV		
400 V	100 mV		
750 V	1 V	$\pm$ (2.5%rdg + 15dgts)	50-100Hz

Average sensing, calibrated to rms of sine wave  
**Overload protection** : 1000V DC /750Vrms AC;  
**Impedance** : 10M  $\Omega$ , More then 100M  $\Omega$  on 400mV scale

#### RESISTANCE

Range	Resolution	Accuracy
400	0.1	$\pm$ (1.8%rdg + 20dgts)
4 k	1	$\pm$ (1.2%rdg + 20dgts)
40 k	10	
400 k	100	
4 M	1 k	
40 M	10 k	$\pm$ (2.0%rdg + 20dgts)

**Overload protection** : 250V DC/250Vrms AC

#### FREQUENCY



Range	Resolution	Accuracy
10 Hz	0.01 Hz	$\pm$ (0.5%rdg + 15dgts)
100 Hz	0.1 Hz	
1000 Hz	1 Hz	
10 kHz	10 Hz	
100 kHz	100 Hz	
1000 kHz	1 kHz	
10 MHz	10 kHz	

**Overload protection** : 250V DC/250Vrms AC  
**Sensitivity** : Range of input voltage : 1.5V-1.0V, if input voltage over range, need adjust

#### DUTY CYCLE

0.1% ~99.9%

#### DIODE AND AUDIBLE CONTINUITY TEST

Range	Description	Test condition
	Display read approx. Forward voltage of diode.	Forward DC current approx. 0.4mA Reversed DC Voltage Approx. 1.5V
	Built-in buzzer sounds if resistance is less than 90	Open circuit voltage approx. 0.5V

**Overload protection** : 250V DC/250Vrms AC

All Specifications are subject to change without prior notice