KUSAM-MECO®
An ISO 9001:2015 Company

2500A DIGITAL CLAMP METER
MODEL- KM-2779

THINK SAFETY
THINK KUSAM-MECO®

KM 2779 digital clamp meters, ensures stable performance, safety, and reliability for measuring up to 2500A AC/DC current. It is designed with over-load protection for all ranges & is perfect for all professionals measuring currents up to 2500A.

■ FEATURES:



- **Sensing : True RMS sensing**
- **Display : 3-5/6 Digit 6000 Counts Liquid crystal Display**
- **Jaw opening Size : 63mm**
- **Maximum size of current lead : diameter 60mm**
- **Sampling rate : 3/s**
- **Type of sensor : Hall effect sensor for DC / AC measurement**
- **Polarity display : auto positive & negative polarity display**
- **Maximum height : 2000m**
- **AC+DC function**
- **Auto ranging & Data hold function**
- **Max/Min function**
- **Duty cycle**
- **Low Pas Filter/ Inrush current**
- **Relative mode**
- **I-Out function**
- **61 Analog bar graph**
- **Data storage 1000**
- **Overload display :** "OL" or "-OL"
- **Test position error :** An additional reading error of ± 1.0% may be resulted when the power to be measured is not clamped at the center of clamp head.
- **Electromagnetic field impact :** The application of device near electromagnetic field may result in unstable display or inaccurate readings.
- **Operating temperature & Humidity :** 0°C ~ 30°C (not bigger than 80%RH) 30°C ~ 40°C (not bigger than 75%RH), 40°C ~ 50°C (not bigger than 45%RH)
- **Storage temperature & Humidity :** -20°C ~ +60°C (not bigger than 80%RH)
- **Diode Test / Continuity buzzer**
- **Low battery indication**
- **Power Supply :** 9V Alkaline battery (6LF22)
- **Dimension :** 298(W) x 107(H) x 47(D)mm
- **Weight :** Approx. 726g. (including battery)



- **Accessories :** Test leads, Output cable, Thermocouple, User Manual & Carrying case.
- **Safety :** CAT III 1000V; CAT IV 600V, Pollution grade : 2

All Specifications are subject to change without prior notice.

ELECTRICAL SPECIFICATIONS : KM 2779

Accuracy ±(% + word number), one year calibration time, Ambient temperature 23°C ± 5°C
Humidity <80% RH. Temperature Coefficient 0.1 x (accuracy) / °C

DC VOLTAGE

Range	Resolution	Accuracy
6V	0.001V	±(0.5%+2)
60V	0.01V	
600V	0.1V	
1000V	1V	±(1%+2)

Input impedance: about 10MΩ
Overload protection: 1000V

AC VOLTAGE

Range	Resolution	Accuracy	
6V	0.001V	40Hz∽400Hz	400Hz∽1kHz
60V	0.01V	±(1%+3)	±(2%+3)
600V	0.1V		
1000V	1V	±(1.2%+3)	±(2.5%+3)

Input impedance: about 10MΩ
Overload protection: 1000V
Display: true RMS, applicable to 10%- 100% of the range.

DC CURRENT

Range	Resolution	Accuracy
600A	0.1A	±(1.5%+5)
2500A	1A	±(2.5%+5)

AC+DC VOLTAGE

Range	Resolution	Accuracy	
6V	0.001V	40Hz∽400Hz	400Hz∽1kHz
60V	0.01V	±(2%+20)	±(4%+20)
600V	0.1V		
1000V	1V	±(2.5%+20)	±(5%+20)

Input impedance: about 10MΩ
Overload protection: 1000V
Display: true RMS, applicable to 10%- 100% of the range.

AC CURRENT

Range	Resolution	Accuracy
600A	0.1A	±(1.5%+5)
2500A	1A	±(2.5%+5)

Display : True RMS, applicable to 10% ~ 100% of the range.
Frequency Response : 50Hz ~ 60Hz
It is normal that the clamp vibrates slightly when measuring 2000AC Current, which however has no impact on measuring accuracy.

AC VOLTAGE + LPF

Range	Resolution	Remark
6V	0.001V	Intercept AC voltage signal higher than 1 KHZ
60V	0.01V	
600V	0.1V	
1000V	1V	

AC+DC CURRENT

Range	Resolution	Accuracy
600A	0.1A	± (3.0%+20)
2500A	1A	± (5.0%+20)

Display : True RMS, applicable to 10% ~ 100% of the range.
Frequency Response : 50Hz ~ 60Hz
It is normal that the clamp vibrates slightly when measuring 2000AC Current, which however has no impact on measuring accuracy.

AC CURRENT + LPF

Range	Resolution	Remark
600A	0.1A	Intercept AC voltage signal higher than 1 KHZ
2500A	1A	

Continuity test

Range	Resolution	Remark
	0.1Ω	Open-circuit voltage is about 3.5V; Sound continuity is set as <30Ω, buzzer continuously sounds. Short circuit is set as >30Ω, buzzer will not sound.

Overload protection: 1000V

Diode

Range	Resolution	Remark
	0.001V	Open-circuit voltage is about 3.5V, able to measure the PN junction <3V forward voltage drop value. The normal voltage value of silicon PN junction is about 0.5 ~ 0.8V.

Overload protection: 1000V

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ELECTRICAL SPECIFICATIONS : KM 2779

Capacitance ⊣⊢

Range	Resolution	Accuracy
60nF	0.01nF	Under REL state: ±(3%+5)
600nF	0.1nF	±(3%+5)
6 μ F	0.001 μ F	
60 μ F	0.01 μ F	
600 μ F	0.1 μ F	±(4%+5)
6000 μ F	1uF	±(5%+5)
60mF	0.01mF	Reference value

Overload protection: 1000V

RESISTANCE

Range	Resolution	Accuracy
600 Ω	0.1 Ω	Under REL state: ±(1.0%+10)
6k Ω	0.001k Ω	±(0.6%+10)
60k Ω	0.01k Ω	
600k Ω	0.1k Ω	
6M Ω	0.001M Ω	±(1.2%+2)
60M Ω	0.01M Ω	±(1.5%+2)

Overload protection: 1000V

Frequency Hz

Range	Resolution	Accuracy
60Hz	0.001 Hz	±(0.1%+3)
600Hz	0.01 Hz	
6kHz	0.0001kHz	
60kHz	0.001kHz	
600kHz	0.01kHz	
6MHz	0.0001MHz	
60MHz	0.001MHz	

Overload protection: 1000V
Input range a: 10Hz～40MHz:
1Vrms≤ a ≤30Vrms;
When >40MHz: unspecified.

Temperature

Range	Resolution	Error
-40℃～40℃	1℃	±(2%+10)
40℃～400℃		±(1%+10)
400～1000℃		±2.5%
-40℉～104℉	2℉	±(2%+18)
104℉～752℉		±(1%+18)
752～1832℉		±2.5%

Overload protection: 1000V
Temperature sensor: K type (Ni-Cr and Ni- Si) thermocouple

Duty ratio %

Range	Resolution	Error
10%～90%(10Hz～2kHz)	0.01	±(1.2%+30)

Overload protection: 1000V

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