KUSAM-MECO®
An ISO 9001:2015 Company

DIGITAL TRMS AC/DC CLAMP METER
MODEL- KM 2776

THINK SAFETY
THINK KUSAM-MECO®

This instrument is a 6000 counts hand-held automatic range True RMS digital clamp meter. The circuit design of the meter has large-scale integrated circuit analog-to-digital converter (ADC) as the core, and it has the full-range overload protection. It can be used to measure AC and DC voltage, low-pass filter V.F.C, low-impedance Low Z Voltage, AC and DC Current, Resistance, Diode, Continuity Test, Capacitance, Frequency, Duty Cycle, Temperature and other parameters.

NEW



Preliminary Data

FEATURE :

CAT III 600V

- **Data Hold**
- **Surge Current Measurement**
- **NCV Function**
- **Low Voltage display**
- **Max / Min function**
- **Relative Value measurement**
- **Flashlight & Backlight**
- **Live line judgment**
- **Auto power off**

GENERAL SPECIFICATIONS :

- **Sensing :** True RMS Sensing
- **Jaw Opening :** Max. 58mm
- **Max. measuring current wire :** Diameter 52mm
- **Display :** 3-5/6 Digits 5999 counts LCD backlight display
- **Sampling rate** : 3 times / sec.
- **Polarity Indication :** The positive and negative polarities automatically displayed
- **Over load Indication :** LCD displays OL or -OL
- **Low Battery Indication :** "🔋" symbol displayed
- **Operating Temperature :** 0 ~ 40°C, relative humidity < 75%
- **Storage Temperature :** 10°C ~ 50°C, relative humidity < 80%RH;
- **Power Supply :** 1.5V x 2 AAA battery
- **Dimension :** Approx. 273 × 102 × 47 mm
- **Weight :** Approx. 420g (including batteries)
- **Accessories:** User Manual, Test lead pair, Battery, K-type Thermocouple & Carrying case.

- **SAFETY :** IEC61010 Double insulation CAT III 600V.

ELECTRICAL SPECIFICATIONS KM 2776

Accuracy calibration, ambient temperature: 23°C ± 5°C, Humidity less than 75%RH.

AC CURRENT (TRMS)

Range	Resolution	Accuracy	Overload Protection
600A	0.1A	±(4.0%+10)	2000A
2000A	1A		

Frequency response : 50Hz ~ 60Hz;
Display: The current True RMS;
Accuracy is between 10% to 100% of the range.
For Current above 500A max. 60 seconds.
For Current above 1000A max. 10 seconds.
Long press ZERO/INR key at AC current range to measure surge current.

DC CURRENT

Range	Resolution	Accuracy	Overload Protection
600A	0.1A	±(4.0%+10)	2000A
2000A	1A		

Accurate value is 10% to 100% of the range

For Current above 500A max. 60 seconds.

For Current above 1000A max. 10 seconds.

All Specifications are subject to change without prior notice.

AC VOLTAGE (V~) (TRMS)

Range	Resolution	Accuracy	Overload Protection
6 V	0.001 V	± (1.0%+10)	1000VDC/ 1000VAC
60 V	0.01 V		
600 V	0.1 V	± (1.0%+12)	
1000V	1 V		

Display: Voltage True RMS;
Input impedance: ≥10MΩ;
Frequency Response : 40Hz ~ 1kHz (Sine & Triangle Wave)
Accuracy between 5% to 100% range

DC VOLTAGE (V⎓)

Range	Resolution	Accuracy	Overload Protection
600 mV	0.1 mV	± (0.5%+7)	1000VDC/ 1000VAC
6 V	0.001 V		
60 V	0.01 V		
600 V	0.1 V	± (1.0%+10)	
1000 V	1 V		

Input impedance: ≥10MΩ;
Accurate value is 5% to 100% of the range.
The open circuit of the voltage range allows
≤ 5 digits of remaining readings

LOW IMPEDANCE AC VOLTAGE LOW Z V~

Range	Resolution	Accuracy	Overload Protection
6 V	0.001 V	± (1.0%+10)	300V DC/AC
60 V	0.01 V		
300 V	0.1 V	± (1.0%+12)	

Display: AC voltage True RMS;
Input impedance: ≤ 3kΩ;
Frequency Response : 40Hz ~ 1kHz
Accuracy between 5% to 100% range

CONTINUITY TEST

Range	Resolution	Accuracy	Open Circuit V	Overload Protection
600 Ω	0.001 Ω	>50Ω, No beep ≤ 50Ω, Consecutive beeps	about 2V	250V AC/DC

DIODE TEST

Range	Resolution	Accuracy
3.3 V	0.001 V	Open circuit voltage is about 3.9V, Measurable PN junction : ≤3.9V Forward voltage drop. Silicon PN junction voltage value is generally about 0.5 ~ 0.8V.

Open Circuit Voltage : About 3.9V
Overload Protection : 250V AC/DC

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
1 nF	0.001 nF	± (5.0%+40)	250V AC/DC
10 nF	0.01 nF	± (5.0%+10)	
100 nF	0.1 nF		
1 µF	0.001 µF		
10 µF	0.01 µF		
100 µF	0.1 µF		
1 mF	0.001 mF		
10 mF	0.01 mF		

Accuracy between 5% to 100% range

RESISTANCE

Range	Resolution	Accuracy	Overload Protection
600 Ω	0.1 Ω	± (1.0%+5)	250V DC/AC
6 kΩ	0.001 kΩ		
60 kΩ	0.01 kΩ		
600 kΩ	0.1 kΩ		
6 MΩ	0.001 MΩ		
20 MΩ	0.01 MΩ	± (1.5%+15)	
60 MΩ	0.01 MΩ	± (2.5%+20)	

Open circuit voltage: about 1V.
The accurate value is between 5% to 100% of the range.

FREQUENCY (Logic Level)

Range	Resolution	Accuracy	Overload Protection
10Hz-10MHz	0.01Hz-1kHz	± (0.3%+3)	250V DC/AC
10.0%-90.0%	0.1%		

Frequency input amplitude requirements: 10Hz-100 kHz:
1Vrms ≤ Input amplitude ≤20Vrms.
100 kHz-10 MHz: 3Vrms≤ Input amplitude ≤ 20Vrms.

TEMPERATURE (K-type Thermocouple)

Range	Display Range	Resolution	Overload Protection
(-20~1000)°C	<400°C±(2.0%+5) ≥400°C±(1.5%+15)	1°C	250V DC/AC
(-4~1832)°F	<752°C±(2.0%+5) ≥752°C±(1.5%+15)	1°F	

DUTY CYCLE

Range	Frequency
10%-90%	10Hz-1kHz
30%-70%	1kHz-10kHz

Input amplitude: 3Vpp≤input amplitude≤20Vpp

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