KUSAM-MECO®

An ISO 9001:2015 Company

DIGITAL TRMS AC/DC CLAMP METER
MODEL- KM 3000

THINK SAFETY
THINK KUSAM-MECO®

This instrument is a 6000 counts hand-held automatic range True RMS Clampmeter. 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 circuit. It can be used to measure AC and DC voltage, low-pass filter V.F.C voltage, AC and DC Current, Resistance, Diode, Continuity Test, Capacitance, Frequency, Duty Cycle, Temperature and other parameters, and has data retention, relative value measurement, surge current measurement function, torch function, NCV function, Live wire judgment, under-voltage display and auto power off function.

NEW

CAT III 600V



Preliminary Data

FEATURE :

- **Data Hold**
- **Surge Current Measurement**
- **NCV Function**
- **Low Voltage display**
- **Auto ranging**
- **Relative Value measurement**
- **Flashlight & Backlight**
- **Live line judgment**
- **Low-Pass filter meaurement**
- **Auto Power Off**

GENERAL SPECIFICATION:

- **Sensing :** True RMS Sensing
- **Jaw Opening :** Max. 40mm
- **Max. measuring current wire :** Diameter 39mm
- **Display :** 3-5/6 Digits 5999 counts LCD backlight display
- **Sampling rate** : 3 times / sec.
- **Polarity Indication :** The positive and negative polarities automatically display.
- **Over Range Indication :** LCD displays OL or -OL
- **Low Battery Indication :** "🔋" symbol displays
- **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. 230 x 75 x 40 mm
- **Weight :** Approx. 310g (including batteries)
- **Accessories:** User Manual, Test lead pair, Battery, H.V. Socket, K-type Thermocouple & Carrying case.
- **SAFETY :** IEC61010 Double insulation CAT III 600V.

ELECTRICAL SPECIFICATIONS : KM 3000

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

AC CURRENT (TRMS)

Range	Resolution	Accuracy	Overload Protection
60 A	0.01 A	±(2.5%+10)	1000A
600 A	0.1 A		
1000 A	1 A		

Frequency response: 50Hz ~ 60Hz;
Display: The Current True RMS
Accuracy is between 5% to 100% of the range.
1000Amps range max. 60 seconds.
Inrush current measurement.

DC CURRENT

Range	Resolution	Accuracy	Overload Protection
60 A	0.01 A	±(2.5%+10)	1000A
600 A	0.1 A		
1000 A	1 A		

Accuracy is between 5% to 100% of the range.
1000Amps range max. 60 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/ 750VAC
60 V		0.01 V		
600 V		0.1 V		
750 V		1 V	± (1.0%+12)	
2000V	50Hz~60Hz (Use high-voltage test socket)	1 V		2000V DC/AC

Display: Voltage Accuracy between 5% to 100% range
Input impedance: ≥10MΩ;
Frequency Response : 40Hz ~ 1kHz

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 accuracy is 5% to 100% of the range.

Continuity Test

Range	Resolution	Accuracy	Open Circuit V	Overload Protection
600 Ω	0.1 Ω	>50Ω, No beep ≤ 50Ω,	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

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-10MHz: 3Vrms≤input amplitude≤20Vrms.

DC VOLTAGE (⎓)

Range	Resolution	Accuracy	Overload Protection
600 mV	0.1 mV	± (0.5%+7)	1000VDC/ 750VAC
6 V	0.001 V		
60 V	0.01 V		
600 V	0.1 V		
1000 V	1 V	± (1.0%+10)	2000V DC/AC
2000 V (Use high-voltage test socket)	1 V		

Input impedance: ≥10MΩ
Accuracy between 5% to 100% range

Capacitance

Range	Resolution	Accuracy	Overload protection
9.999 nF	0.001 nF	± (5.0%+40)	250V AC/DC
99.99 nF	0.01 nF	± (5.0%+10)	
999.9 nF	0.1 nF		
9.999 µF	0.001 µF		
99.99 µF	0.01 µF		
999.9 µF	0.1 µF		
9.999 mF	0.001 mF		
>10 mF	0.01 mF	Not specified	

Accuracy between 5% to 100% range

Temperature (K-type thermocouple)

Range	Display Range	Resolution
(-20~1000)°C	<400°C±(2.0%+5) ≥400°C±(1.5%+15)	1°C
(-4~1832)°F	<752°F±(2.0%+5) ≥752°F±(1.5%+15)	1°F

Overload protection: 250V DC/ AC RMS

Duty Cycle

Range	Range(square wave)
10%-90%	10Hz-1kHz
20%-70%	1kHz-10kHz

Input amplitude: 3Vpp≤input amplitude≤20Vpp

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