KUSAM-MECO®
An ISO 9001:2015 Company

3¾ DIGITS ACTRMS DIGITAL CLAMPMETER

THINK SAFETY
THINK KUSAM-MECO®

MODEL- KM 2719

11 FUNCTIONS 37 RANGES

Preliminary Data

FEATURES

- True RMS measurement
- Audio visual NCV detection
- **Maximum measurable voltage:** 600V
- **High voltage frequency range:** 10Hz~10kHz
- **Current 400A frequency response:** 50Hz~100Hz; current frequency measurement function
- Large capacitance (4mF) and temperature measurement
- Very large capacitance (40mF), low voltage frequency (10MHz), and live/neutral wire measurement functions
- Large LCD and fast refresh rate (3 times/s)
- **Response time for capacitance measurement:** less than 3s for ≤1mF; about 6s for ≤10mF; about 8s for ≤ 40mF

GENERAL SPECIFICATIONS

- **Display:** 3¾ Digits 4000 Counts LCD Backlight display.
- **The maximum size of jaw opening:** 28mm in diameter
- **Polarity display:** Auto
- **Low battery indication:** The "▭" symbol is displayed.
- **Low battery shutdown prompt:** The "Lo.bt" interface appears on the LCD and lasts for about 10s, the buzzer beeps three times, and the meter automatically shuts down.
- **Operating temperature and humidity:** 0°C~30°C (≤80%RH), 30°C~40°C (≤75%RH), 40°C~50°C (≤45%RH)
- **Storage temperature and humidity:** -20°C~60°C (≤80%RH)
- **Power Supply:** AAA battery 1.5V×2
- **Dimensions:** Approx. 215mm × 63.5mm × 36mm
- **Weight:** Approx. 248g (including batteries)
- **Accessories:** Test lead pair, battery, user manual, K-type temperature probe range upto 250°C & carrying case.
- **Overload display:** "OL" or "-OL"
- **Test position error:** If the source under test is not placed at the center of the clamp jaws when measuring current, ±1.0% additional error in reading will be produced.
- **Drop protection:** 1m
- **Altitude:** 2000m
- **Auto power off:** If there is no operation of the function switch or any button for 15 minutes, the meter will auto-matically power off. This function can be turned off as needed.
- **Electromagnetic compatibility:** RF=1V/m, overall accuracy = specified accuracy + 5% of range RF>1V/m, no specified calculation

ELECTRICAL SPECIFICATIONS : KM 2719

Accuracy is ± (% reading digits + number of digits) or otherwise specified @ 23°C±5°C; ≤80%RH

AC CURRENT

Range	Resolution	Accuracy
4.000A	0.001A	±(4%rdg+10dgts)
40.00A	0.01A	±(2%rdg+10dgts)
400.0A	0.1A	
Current frequency monitoring: 50Hz~100Hz	0.1Hz	±(1.0%rdg+5dgts)

Overload Protection : 420A AC
Frequency response: 50Hz~100Hz
For 4A range, open circuit allows least significant digit <3.
Accuracy range: 1%~100% of range
The input current amplitude of the current frequency should be >2A.

AC VOLTAGE

Range	Resolution	Accuracy
4.000 V	0.001 V	±(1.0%rdg+5dgts)
40.00 V	0.01 V	±(0.8%rdg+5dgts)
400.0 V	0.1 V	
600 V	1 V	
Voltage frequency monitoring: 10Hz~10kHz	0.01Hz~ 0.01kHz	±(1.0%rdg+5dgts)

- **Overload Protection :** 600V rms
- **Input impedance:** About 10MΩ
- **Frequency response:** 45Hz~400Hz, true RMS display
- **Accuracy range:** 1%~100% of range; the input voltage amplitude of the voltage frequency should be >5V.
- The AC crest factor of a non-sinusoidal wave can reach 3.0 at 4000 counts.
  The additional error should be added for the corresponding crest factor as follows:
  a) Add 3% when crest factor is 1~2
  b) Add 5% when crest factor is 2~2.5
  c) Add 7% when crest factor is 2.5~3

All Specifications are subject to change without prior notice.

ELECTRICAL SPECIFICATIONS : KM 2719

DC VOLTAGE

Range	Resolution	Accuracy
400.0 mV	0.1 mV	±(0.7%rdg + 3dgts)
4.000 V	0.001 V	±(0.5%rdg + 2dgts)
40.00 V	0.01 V	±(0.7%rdg + 3dgts)
400.0 V	0.1 V	
600 V	1 V	

Overload Protection : 600V rms
Input impedance: About 10MΩ
For mV range, short circuit allows least significant digit ≤5.
Accuracy range: 1%~100% of range

RESISTANCE

Range	Resolution	Accuracy
400.0 Ω	0.1 Ω	±(1.0%rdg+2dgts)
4.000 kΩ	0.001 kΩ	±(0.8%rdg+2dgts)
40.00 kΩ	0.01 kΩ	
400.0 kΩ	0.1 kΩ	
4.000 MΩ	0.001 MΩ	±(2.0%rdg+5dgts)
40.00 MΩ	0.01 MΩ	

Overload Protection : 600Vrms

CAPACITANCE

Range	Resolution	Accuracy
4.000 nF	0.001 nF	±(4.0%rdg+10dgts)
40.00 nF	0.01 nF	
400.0 nF	0.1 nF	
4.000 µF	0.001 µF	±(4.0%rdg+5dgts)
40.00 µF	0.01 µF	
400.0 µF	0.1 µF	
4.000 mF	0.001 mF	±(10%)
	0.01 mF	

Overload Protection : 600Vrms
- Measured value = displayed value - open circuit value of the test leads (For capacitance ≤100nF, it is recommended to use "REL" measurement mode.)
- For capacitance range, open circuit allows least significant digit ≤20.

DIODE TEST

Range	Resolution	Accuracy
4.000V	0.001V	Open circuit voltage: About 3.9V

Overload Protection : 600Vrms
Temperature should be within 18°C ~28°C and the fluctuation range should be within ±1°C. When the temperature is <18°C or >28°C, add temperature coefficient error 0.1 x (specified accuracy)/°C.

FREQUENCY / DUTY CYCLE RATIO

Range	Resolution	Accuracy
10Hz ~ 10MHz	0.01Hz ~ 0.01MHz	±(0.1%rdg+4dgts)
0.1% ~ 99.9%	0.1%	±(3.0%rdg+5dgts)

Overload Protection : 600Vrms
1) Measuring sensitivity:
≤100kHz : 200Vrms ≤input amplitude ≤30Vrms
>100kHz~1MHz: 600mVrms ≤input amplitude ≤30Vrms
>1MHz ~ 10MHz : 1Vrms ≤input amplitude ≤30Vrms
2) Duty ratio is only applicable to the measurement of square wave: ≤10kHz; amplitude:1Vp-p
Frequency ≤1kHz Duty ratio: 10.0% ~ 95.0%
Frequency >1kHz Duty ratio : 30.0% ~ 70.0%

CONTINUITY TEST

Range	Resolution	Accuracy
400.0Ω	0.1Ω	<10Ω : Consecutive beeps >31Ω: No beep

Overload Protection : 600Vrms
Open Circuit Voltage : about 2.0V

TEMPERATURE: K-Type Thermocouple

Range	Resolution	Accuracy
-40°C ~ 40°C	1°C	±(4°C)
40°C ~ 500°C		±(1.5%rdg+5dgts)
500°C ~ 1000°C		±(2.0%rdg+5dgts)
-40°F ~ 104°F	1°F	±(6°F)
104°F ~ 932°F		±(2.0%rdg+6dgts)
932°F ~ 1832°F		±(2.5%rdg+4dgts)

Overload Protection : 600Vrms

NCV

Range	Electric field sensing sensitivity level	Accuracy
NCV	EFLo	To sense the wire above 24±6V and identify whether the mains socket is charged
	EFHI	To sense the wire above 74V±12V, to identify whether the mains socket is charged, or to judge the live/neutral wire of the socket according to the intensity of the sensing.

Test results may be affected by different socket designs or wire insulation thickness.

All Specifications are subject to change without prior notice

KUSAM-MECO®
An ISO 9001:2015 Company

G-17, Bharat Industrial Estate, T. J. Road, Sewree (W), Mumbai - 400 015. INDIA.
Sales Direct.: 022-24156638, 27754546 **Tel. :**24124540, 24181649, 27750662, 27750292
Email : sales@kusam-meco.co.in **Website :** www.kusamelectrical.com