KUSAM-MECO®
An ISO 9001:2015 Company

3¾ DIGITS ACTRMS DIGITAL CLAMPMETER

THINK SAFETY
THINK KUSAM-MECO®

MODEL- KM 2719

11 FUNCTIONS 37 RANGES

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
- Low voltage frequency (10kHz), 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 ≤4mF.

CAT III 300V
CAT II 600V



Preliminary Data

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: 5%~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:** 5%~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: 5%~100% of range

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%)

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.

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.

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

CONTINUITY TEST

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

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

TEMPERATURE: K-Type Thermocouple

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

Overload Protection : 600Vrms

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.

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