

600A AC TRMS DIGITAL CLAMPMETER

Model - KM 2731

FEATURES :

- Max. Voltage between input & ground is CAT III 600V DC & 600V AC
- Dual Integral A/D convertor, auto range
- Display function & unit symbols
- Overload Display & Data Hold Display
- Backlight display & Flashlight
- NCV Sensor Probe
- Auto Power Off after 25 minutes
- Low battery indication
- Diode Test, Continuity Test

NEW

CAT III 600V
DC/AC



Preliminary Data

GENERAL SPECIFICATIONS :

- * **Display** : 3 ¾ Digit 4000 Counts Backlight LCD display
- * **Jaw Opening** : Max. 26mm
- * **Digit Height** : 12mm
- * **Sampling Time** : About 3 times / seconds.
- * **Working Temperature** : 5°C ~ 55°C
- * **Storage Temperature** : -10°C ~ 50°C
- * **Power** : DC1.5V AAA x 2 battery.
- * **Dimension** : Approx.185(L) x 71(W) x 35(H)mm.
- * **Weight** : Approx. 200 gm (Including battery)
- * **ACCESSORIES** : Test leads (pair), User's manual, Battery, Bead type Thermocouple upto 250°C & Carrying case.

SAFETY : IEC61010, IEC61010-2-032 Dual insulation CAT III 600V & Pollution Class 2.

ELECTRICAL SPECIFICATIONS KM 2731

Accuracy is $\pm$ (% reading digits + number of digits) or otherwise specified, at 18°C $\pm$ 28°C; <75% R.H.

DC VOLTAGE

Range	Resolution	Accuracy
400 mV	0.1 mV	$\pm(0.5\% \text{ rdg} + 3 \text{ dgts})$
4 V	0.001 V	$\pm(0.8\% \text{ rdg} + 2 \text{ dgts})$
40 V	0.01 V	
600 V	1 V	$\pm(1.0\% \text{ rdg} + 2 \text{ dgts})$

Input resistance : 10M Ω

The maximum input voltage : 600VDC or 600V rms AC

AC VOLTAGE (TRMS)

Range	Resolution	Accuracy
4 V	0.001 V	$\pm(1.0\% \text{ rdg} + 10 \text{ dgts})$
40 V	0.01 V	
600 V	1 V	$\pm(1.2\% \text{ rdg} + 10 \text{ dgts})$

Input resistance : 10M Ω

Frequency Response : 40Hz ~ 400Hz

The maximum input voltage : 600VDC or 600V rms AC

AC CURRENT (TRMS)

Range	Resolution	Accuracy
4 A	0.001 A	$\pm (2.5\% \text{ rdg} + 10 \text{ dgts})$
40 A	0.01 A	
600 A	0.1 A	

Maximum Input Current : 120% of full scale, less than 60 seconds

Frequency Range : 50Hz ~ 60Hz

RESISTANCE

Range	Resolution	Accuracy
400 Ω	0.1 Ω	$\pm(1.2\% \text{ rdg} + 2 \text{ dgts})$
4 K Ω	0.001 k Ω	
40 K Ω	0.01 k Ω	
400 K Ω	0.1 k Ω	
4 M Ω	0.001M Ω	$\pm(2.0\% \text{ rdg} + 5 \text{ dgts})$
40 M Ω	0.01 M Ω	

Overload Protection : 600V DC or 600V rms AC

CAPACITANCE

Range	Resolution	Accuracy
4.000 nF	0.001 nF	$\pm(4.0\% \text{ rdg} + 50 \text{ dgts})$
40.00 nF	0.01 nF	$\pm(4.0\% \text{ rdg} + 3 \text{ dgts})$
400.0 nF	0.1 nF	
4.000 μ F	1 nF	
40.00 μ F	10 nF	
400.0 μ F	100 nF	
4.000 mF	1 μ F	
40.00 mF	10 μ F	

Overload Protection : 600V DC or 600V rms AC

TEMPERATURE

Range	Resolution	Accuracy
-40 ~ 1000°C	1°C	$\pm (2.0\% \text{ rdg} + 2^\circ\text{C})$
-40 ~ 1832°F	1°F	$\pm (2.0\% \text{ rdg})$

Accuracy does not include the error of thermocouple probe.

Overload Protection : 600V DC or 600V rms AC

BUZZER CONTINUITY

Function	Resolution	Description
	0.1 Ω	Beeper sounds when Resistance is less than 50 Ω

Overload : 600V DC or 600V rms AC

Open Circuit Voltage: about 2.1V.

DIODE TEST

Function	Range	Description
	1mV	Forward voltage drop value Open Circuit Voltage : about 2.3V

Overload : 600V DC or 600V rms AC

All Specifications are subject to change without prior notice.