

GENERAL SPECIFICATIONS :

- * Maximum input voltage between input socket and the earth: 600V RMS
- * The measuring principle : Double integral A/D conversion
- * Sampling time : about 3 times / second
- * Display : 3-5/6 Digit 6000 Counts Backlight LCD display
- * Jaw Opening : Max. 28mm
- * Input polarity : Display " - "
- * Range Selection : Auto ranging
- * Over range indication : "OL" or "-OL"
- * Inbuilt flashlight
- * Data Hold Function
- * Operating temperature : 0°C ~ 40°C (<80% RH)
- * Storage temperature : -10°C ~ 50°C (<70% RH, Exclude batteries)
- * Low battery indication.
- * Auto power off : After 15 minutes.
- * Power : 1.5V AAA x 3 battery.
- * Dimension : Approx. 218(L) x 84(W) x 41(H)mm.
- * Weight : Approx. 230 gm (Including batteries)
- * Accessories : Test leads (pair), User's manual, Battery & Carrying case

SAFETY : IEC61010-1, IEC61010-2-032 CAT III 600V.

NEW

CAT III 600V
DC/AC



Preliminary Data

ELECTRICAL SPECIFICATIONS KM 2733

Accuracy is $\pm$ (% reading digits + number of digits) or otherwise specified, at 18°C $\pm$ 28°C; <80% R.H.

Under AC Current measurement, put the conductor under test in the middle of clamp of getting the accurate value.

DC VOLTAGE

Range	Resolution	Accuracy
600 mV	0.1 mV	$\pm(1.0\% \text{rdg} + 2 \text{dpts})$
6 V	0.001 V	$\pm(0.8\% \text{rdg} + 3 \text{dpts})$
60 V	0.01 V	
600 V	0.1 V	

Input resistance : 10M Ω

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

AC CURRENT (TRMS)

Range	Resolution	Accuracy
6 A	0.01 A	$\pm (3.0\% \text{rdg} + 6 \text{dpts})$
60 A	0.1 A	
600 A	0.1 A	

Maximum Input Current : 600A AC

Frequency Range : 40Hz ~ 400Hz

DC CURRENT

Range	Resolution	Accuracy
6 A	0.01 A	$\pm (2.5\% \text{rdg} + 8 \text{dpts})$
60 A	0.1 A	
600 A	0.1 A	

Maximum Input Current : 600A DC

RESISTANCE

Range	Resolution	Accuracy
600 Ω	0.1 Ω	$\pm(0.8\% \text{rdg} + 3 \text{dpts})$
6 K Ω	0.001 K Ω	
60 K Ω	0.01 K Ω	
600 K Ω	0.1 K Ω	$\pm(1.2\% \text{rdg} + 3 \text{dpts})$
6 M Ω	0.001M Ω	
60 M Ω	0.01 M Ω	

Overload Protection : 250 V DC or AC

Open Circuit Voltage : Approx 0.4V

BUZZER CONTINUITY

Function	Resolution	Description
	0.1 Ω	Built in buzzer will be sounded if Resistance is less than 50 Ω

OverloadProtection: 250 V DC or AC RMS

AC VOLTAGE

Range	Resolution	Accuracy
6 V	0.001 V	$\pm(0.8\% \text{rdg} + 3 \text{dpts})$
60 V	0.01 V	
600 V	0.1 V	

Input resistance : 10M Ω

Frequency Response : 40Hz ~ 400Hz

The maximum input voltage : 600VAC (effective value)

FREQUENCY

Measurement through Current Range

Range	Resolution	Accuracy
99.99Hz	0.01Hz	$\pm (1.5\% \text{rdg} + 5 \text{dpts})$
999.9Hz	0.1kHz	
>1kHz	0.001kHz	Only reference

Measuring Range : 10Hz ~ 1kHz

Maximum input current : 600A RMS

Input signal range : 4A RMS

FREQUENCY

Measurement through Voltage Range

Range	Resolution	Accuracy
99.99Hz	0.01Hz	$\pm (1.5\% \text{rdg} + 5 \text{dpts})$
999.9Hz	0.1kHz	
>1kHz	0.001kHz	Only reference

Measuring Range : 10Hz ~ 1kHz

Maximum input Voltage : 600V AC RMS

Input impedance : 10M Ω

FREQUENCY

Measure through Hz / % range

Range	Resolution	Accuracy
9.999Hz	0.001Hz	$\pm (0.5\% \text{rdg} + 2 \text{dpts})$
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	
9.999kHz	0.001kHz	
99.99kHz	0.01kHz	
999.9kHz	0.1kHz	
9.999MHz	0.001MHz	

CAPACITANCE

Range	Resolution	Accuracy
6 nF	0.001 nF	$\pm(4.0\% \text{rdg} + 5 \text{dpts})$
600 nF	0.01 nF	
6 μ F	0.1 nF	
60 μ F	1 nF	
600 μ F	10 nF	
6 mF	1 μ F	
60 mF	10 μ F	

Overload Protection : 250V DC or AC RMS

TEMPERATURE

Range	Resolution	Accuracy
-50 ~ 1300°C	1°C	$\pm (1.0\% \text{rdg} + 3 \text{dpts})$
-58 ~ 2372°F	1°F	$\pm (1.0\% \text{rdg} + 3 \text{dpts})$

Accuracy does not include the error of thermocouple probe.

Overload Protection : 250V DC or AC

Duty Cycle

Range	Resolution	Accuracy
0.1 ~ 99.9%	0.1%	$\pm 3.0\%$

Input impedance : 10M Ω

Maximum input Voltage : 600V AC RMS

Frequency response : 10Hz ~ 10MHz

DIODE TEST

Function	Range	Description
	0.001V	Display approximate forward voltage of diode

OverloadProtection: 250 V DC or AC RMS

All Specifications are subject to change without prior notice.