

4½ DIGIT DIGITAL MULTIMETER WITH TERMINAL BLOCKING PROTECTION MODEL-KM 6050

18 FUNCTIONS 29 RANGES

**20Amps
FUSED**



FEATURES :

- Low power consumption CMOS double integration, A/D transform integrated circuit
- Auto zero Calibration
- Auto polarity display
- Data hold
- Low battery and Over - range indication.
- Test lead jack mechanical protection function and full range over - load protection function.
- Auto power off function.

ACCESSORIES :

Test lead pair, Carrying case, Holster & User's Manual

OPTIONAL ACCESSORIES :

Current Clamp CA 300, Current Clamp Adaptor CA500, CA1000, CA2000, High Voltage Probe PD-28.

GENERAL SPECIFICATIONS :

- * Sensing : Average Sensing.
- * Basic Accuracy : $\pm 0.05\%$
- * Capacitance measurement : 0-200 μ F
- * Display : 4½ digit 19999 counts Large LCD display
- * Display Size : 70 x 48mm
- * Digit Size : 28mm
- * Low battery indication : "⎓" will occur on the left top of the LCD.
- * Operation Temperature : 0°C ~ 50°C; <85% R.H.
- * Storage Temperature : -10°C ~ 60%; <85% R.H.
- * Power : Standard 9V battery.
- * Dimension : 192(L) x 88(W) x 42(H)mm
- * Weight : approx.400g (including battery and holster)

ELECTRICAL SPECIFICATIONS - KM 6050

Accuracy : \pm (%reading + digit) Environment Temperature : 23°C \pm 5°C. Relative Humidity : <75%

DC VOLTAGE

Range	Resolution	Accuracy
200 mV	10 μ V	$\pm(0.05\%rdg + 5dpts)$
2 V	100 μ V	$\pm(0.05\%rdg + 5dpts)$
20 V	1 mV	$\pm(0.05\%rdg + 5dpts)$
200 V	10 mV	$\pm(0.05\%rdg + 5dpts)$
1000 V	100 mV	$\pm(0.1\%rdg + 5dpts)$

Input Impedance : 10M Ω

Overload Protection : 250V (for 200mV) DC or AC peak value. 1000V (for other ranges)

DC CURRENT

Range	Resolution	Accuracy
2 mA	100 nA	$\pm(0.5\%rdg + 2dpts)$
20 mA	1 μ A	$\pm(0.5\%rdg + 2dpts)$
200 mA	10 μ A	$\pm(0.75\%rdg + 5dpts)$
20 A	1 mA	$\pm(2\%rdg + 10dpts)$

Overload Protection : 0.2A / 250V fuse
20A / 250V fuse

Maximum input current : 20A (15 second max.)

Voltage drop measurement :

Full-scale Voltage drop : 200mV

RESISTANCE

Range	Resolution	Accuracy
200 Ω	10 m Ω	$\pm(0.2\%rdg + 5dpts)$
2 K Ω	100 m Ω	$\pm(0.2\%rdg + 1dpts)$
20 K Ω	1 Ω	$\pm(0.2\%rdg + 1dpts)$
200 K Ω	10 Ω	$\pm(0.2\%rdg + 1dpts)$
2 M Ω	100 Ω	$\pm(0.2\%rdg + 1dpts)$
20 M Ω	1 K Ω	$\pm(0.5\%rdg + 5dpts)$
200 M Ω	10 K Ω	$\pm(0.5\%rdg + 10dpts)$

Overload Protection : 250V DC or AC peak value

Open circuit Voltage : <1V (2.8V in the 200M Ω range).

Note : It is normal if the test lead short-circuit displays approx. 10 digits in the 200M Ω position. Please deduct these 10 digits when measuring.

AC VOLTAGE

Range	Resolution	Accuracy
2 V	100 μ V	$\pm(0.8\%rdg+10dpts)$
20 V	1 mV	$\pm(0.8\%rdg+10dpts)$
200 V	10 mV	$\pm(0.8\%rdg+10dpts)$
750 V	100 mV	$\pm(1.2\%rdg+15dpts)$

Input Impedance : 2M Ω

Frequency range : 40Hz - 400Hz

Overload Protection : 250V, (for 200mV) DC or AC peak value. 750 V (for other ranges)

Display : Average value (Sine RMS)

AC CURRENT

Range	Resolution	Accuracy
2 mA	100 nA	$\pm(0.8\%rdg + 10dpts)$
20 mA	1 μ A	$\pm(0.8\%rdg + 10dpts)$
200 mA	10 μ A	$\pm(1.5\%rdg + 10dpts)$
20 A	1 mA	$\pm(2\%rdg + 10dpts)$

Overload Protection : 0.2A / 250V fuse
20A / 250V fuse

Maximum input current : 20A (15 second max.)

Voltage drop measurement :

Full-scale Voltage drop : 200mV

Frequency Range : 40Hz ~ 400Hz

Display : Average value (Sine RMS)

CAPACITANCE

Range	Resolution	Accuracy
20 nF	1 pF	$\pm(2.5\%rdg + 10dpts)$
200 nF	10 pF	$\pm(2.5\%rdg + 10dpts)$
2 μ F	100 pF	$\pm(2.5\%rdg + 10dpts)$
200 μ F	10 nF	$\pm(5\%rdg + 3dpts)$

Frequency measurement : approx. 400Hz

Voltage drop measurement : approx. 40mV

FREQUENCY

Range	Resolution	Accuracy
20 kHz	1 Hz	$\pm(2\%rdg + 5dpts)$

Overload Protection : 250V DC or AC peak value.

Input sensitivity : 150 mV RMS.

TRIODE hFE PARAMETER MEASUREMENT

Range	Description
hFE	It can measure NPN or PNP type transistor triode hFE parameter. Indication range: 0-1000 β

Test Condition: 1b approx 10 μ A
Vce approx 2.8V

DIODE & CONTINUITY MEASUREMENT

Range	Description
	Indicate forward Voltage drop of diode
Test Condition	
Forward-way current is approx 1mA, contry-way voltage is approx 2.8V	
	The buzzer will beep when resistance approx <30 Ω
Test Condition	
Open circuit voltage is approx 2.8V	

Overload Protection : 250V, DC or AC peak value.

All Specifications are subject to change without prior notice