

3½ DIGIT LARGE DISPLAY DIGITAL MULTIMETER WITH TERMINAL BLOCKING SYSTEM

FEATURES:

- Test lead jack mechanical protection function & full Range over-load protection function
- Low power consumption CMOS double integration, A/D transform integrated circuit
- Back light display
- Auto Zero Calibration
- Auto Polarity display
- Low Battery & Over range indication.
- Selected range displayed on LCD.
- Instant continuity Buzzer.
- Recessed safety designed Input jacks
- "DATA HOLD" switch freezes reading.

ACCESSORIES :

Test leads, User's Manual, Battery, Carrying Case, Protective Holster, Temperature Probe.

OPTIONAL ACCESSORIES:

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

GENERAL SPECIFICATIONS :

- * Sensing : Average Sensing.
- * Basic Accuracy : $\pm(0.5\%rdg + 3dgt)$
- * Display : 3½ digit 2000 counts LCD display. with automatic sign and Function annunciators.
- * Digit height : 28mm
- * Over range indication : Highest digit of (1) or (-1) is displayed.
- * Polarity : Automatic (-)negative polarity indication.
- * Low battery : The "BAT" sign is displayed when the battery Voltage drops below the operating Voltage.
- * Measurement rate : 2.5 measurements per second , nominal.
- * Operating Temperature : 0°C to 50°C; <70% RH
- * Storage Temperature : -20°C to 60°C; <80% RH
- * Auto Power Off : The meter will shut off automatically about 15 Minutes after power is ON if the meter is not in use.
- * Power : Single 9 V Battery.
- * Dimension : 192 (L) x 88 (W) x 42 (H) mm
- * Weight : Approx. 600gms. (including battery)

14 FUNCTIONS 33 RANGES

Model - KM 6030



ELECTRICAL SPECIFICATIONS - KM 6030

Accuracy specifications at 23°C $\pm$ 5°C less than 75% R.H.

DC VOLTAGE

Range	Resolution	Accuracy
200 mV	100 V	$\pm(0.5\%rdg + 3dgt)$
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	$\pm(0.8\%rdg + 3dgt)$
1000 V	1 V	

Input Impedance : 10M

Overload Protection : 250V (for 200mV)DC / AC peak value, 1000V(for other range)

AC VOLTAGE

Range	Resolution	Accuracy
2 V	1 mV	$\pm(0.8\%rdg + 3dgt)$
20 V	10 mV	
200 V	100 mV	
700 V	1 V	$\pm(1.2\%rdg + 5dgt)$

Input Impedance : 10M

Frequency range : 40Hz-400Hz
(it is 40Hz-100Hz in 200V, 750V range position).

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

AC CURRENT (40Hz-400Hz)

Range	Resolution	Accuracy
2 mA	1 A	$\pm(1.0\%rdg + 3dgt)$
20 mA	10 A	
200 mA	100 A	$\pm(1.8\%rdg + 3dgt)$
20 A	10 mA	

Overload Protection : 0.2A/250V Fuse

Max Input Current : 20A

DC CURRENT

Range	Resolution	Accuracy
2 mA	1 A	$\pm(0.8\%rdg + 2dgt)$
20 mA	10 A	
200 mA	100 A	$\pm(1.2\%rdg + 2dgt)$
20 A	10 mA	

Overload Protection : 0.2A/250V Fuse

Max Input Current : 20A

CAPACITANCE

Range	Resolution	Accuracy
2 nF	1 pF	$\pm(0.8\%rdg + 3dgt)$
20 nF	10 pF	
200 nF	100 pF	$\pm(3.0\%rdg + 3dgt)$
2 F	1 nF	
200 F	100 nF	$\pm(5.0\%rdg + 3dgt)$

Frequency measurement : Approx. 400Hz

Voltage measurement : Approx. 40mV

TEMPERATURE (K-Type Thermocouple)

Range	Resolution	Accuracy
-40°C~400°C	1°C	$\pm(0.75\%rdg + 4dgt)$
400°C~1000°C		$\pm(1.5\%rdg + 15dgt)$

Thermocouple accuracy not included

Supplied Thermocouple is suitable for measurement upto 250°C

TRANSISTOR hFE PARAMETER MEASUREMENT

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

Test Condition : 1b approx. 10 A,
V_{ce} approx. 2.8 V

DIODE AND CONTINUITY MEASUREMENT

Description	Test Condition
Indicate approx forward-way voltage drop of diode	Forward current is approx.1mA. Reverse voltage is approx. 2.8 V.
The buzzer inside sounds when continuity resistance is about <50	Open circuit voltage is approx. 2.8V.

Overload Protection : 250 V AC or DC peak value.

FREQUENCY

Range	Resolution	Accuracy
2 KHz	1 Hz	$\pm 2.0\%rdg + 5dgt$

Overload Protection : 500 V DC or AC peak value.
Input Sensitivity : 150 mV rms

All Specifications are subject to change without prior notice