



# 3 1/2 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 :  $\pm(0.5\%rdg + 3dgts)$
- \* Display : 3 1/2 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	$\pm(0.5\%rdg + 3dgts)$
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
1000 V	1 V	$\pm(0.8\%rdg + 3dgts)$

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	$\pm(0.8\%rdg + 3dgts)$
20 V	10 mV	
200 V	100 mV	
700 V	1 V	$\pm(1.2\%rdg + 5dgts)$

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	$\pm(1.0\%rdg + 3dgts)$
20 mA	10 A	
200 mA	100 A	$\pm(1.8\%rdg + 3dgts)$
20 A	10 mA	$\pm(3.0\%rdg + 7dgts)$

Overload Protection : 0.2A/250V Fuse

Max Input Current : 20A

### DC CURRENT

Range	Resolution	Accuracy
2 mA	1 A	$\pm(0.8\%rdg + 2dgts)$
20 mA	10 A	
200 mA	100 A	$\pm(1.2\%rdg + 2dgts)$
20 A	10 mA	$\pm(2\%rdg + 5dgts)$

Overload Protection : 0.2A/250V Fuse

Max Input Current : 20A

### CAPACITANCE

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

Frequency measurement : Approx. 400Hz

Voltage measurement : Approx. 40mV

### RESISTANCE

Range	Resolution	Accuracy
200	0.1	$\pm(0.8\%rdg + 3dgts)$
2 K	1	
20 K	10	$\pm(0.8\%rdg + 2dgts)$
200 K	100	
2 M	1 K	$\pm(1.0\%rdg + 5dgts)$
20 M	10 K	

Overload Protection : 250V DC or AC peak value.

Open circuit voltage : <1 V

### TEMPERATURE ( K-Type Thermocouple)

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

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, Vce 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. Open circuit voltage is approx. 2.8V.
The buzzer inside sounds when continuity resistance is about <50	

Overload Protection : 250 V AC or DC peak value.

### FREQUENCY

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

Overload Protection : 500 V DC or AC peak value.

Input Sensitivity : 150 mV rms

All Specifications are subject to change without prior notice



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