

AUTO RANGING 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
- Auto Zero Calibration
- Auto Polarity display
- Low Battery & Over Range indication
- Selected Range displayed on LCD
- Instant Continuity Buzzer
- Overload Protection in all Ranges
- 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 SPECIFICATION:

- * **Sensing** : Average Sensing.
- * **Display** : 3½ digit, 3999 counts with automatic sign annunciators.
- * **Digit Height** : 28mm
- * **Overrange indication** : Highest digit of (1) or (-1) is displayed .
- * **Polarity** : Automatic (-) negative polarity indication.
- * **Auto Power off**: The meter will shut off automatically about 15 minutes after power is ON if the meter is not in use.
- * **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% R.H.
- * **Storage Temperature**: -20°C to 60°C, <80% R.H. with battery removed
- * **Power** : Single 9V Battery
- * **Dimension** : 192(L) x 88(W) x 42(H)mm
- * **Weight** : Approx.600gms.(including battery).

14 FUNCTIONS 31 RANGES Model KM 6040



ELECTRICAL SPECIFICATIONS : KM 6040

Accuracy specification at 23°C±5°C less than 75% R.H.

DC CURRENT

Range	Resolution	Accuracy
400 A	0.1 A	±(1.2%rdg + 3dgt)
4000 A	1 A	±(1.2%rdg + 3dgt)
40 mA	10 A	±(1.2%rdg + 3dgt)
400 mA	100 A	±(1.2%rdg + 3dgt)
20 A	10 mA	±(2.0%rdg + 5dgt)

Overload Protection : 400mA fuse for A & mA range.
20A unfused; Test time < 15 seconds.

DC VOLTAGE

Range	Resolution	Accuracy
400 mV	0.1mV	±(0.5%rdg + 2dgt)
4 V	1 mV	±(0.5%rdg + 5dgt)
40 V	10 mV	±(0.5%rdg + 5dgt)
400 V	0.1 V	±(0.5%rdg + 5dgt)
1000 V	1 V	±(0.5%rdg + 5dgt)

Overload Protection :1000V DC or 750V AC rms.

TEMPERATURE (K - Type Thermocouple)

Range	Resolution	Accuracy
-40°C~400°C	1°C	±(1.0%rdg + 3dgt)
400°C~1000°C	1°C	±(1.5%rdg + 3dgt)

Overload Protection :250V AC/DC
Thermocouple accuracy not included.
Supplied Thermocouple is suitable for measurement upto 250°C

CLAMP ADAPTOR FUNCTION FOR TESTING HIGH CURRENT

Range	Resolution	Accuracy
DC 2000A	1 A	1.5%
AC 2000A	1 A	1.5%

Use 100A / 100mV Clamp Adaptor Model - CA2000
1500A (1mv / 1A output)

AC CURRENT

Range	Resolution	Accuracy
400 A	0.1 A	±(1.5%rdg + 5dgt)
4000 A	1 A	±(1.5%rdg + 5dgt)
40 mA	10 A	±(1.5%rdg + 5dgt)
400 mA	100 A	±(1.5%rdg + 5dgt)
20 A	10 mA	±(3.0%rdg + 7dgt)

Overload Protection : 400mA fuse for A and mA ranges.
20A unfused, Test time < 15 seconds
Frequency Range : 40 to 400Hz
Response : Average, calibrated in rms of sine wave.

AC VOLTAGE

Range	Resolution	Accuracy
4 V	1 mV	±(0.8%rdg + 3dgt)
40 V	10 mV	
400 V	100 mV	
750 V	1 V	

Input impedance : 10M
Frequency Range : 40 to 400Hz
Response : Average, calibrated in rms of sine wave
Overload Protection : 1000V DC or 750V AC rms.

DIODE & CONTINUITY MEASUREMENT

Range	Description	Testing Condition
→	Indicate forward-way voltage drop of diode	Forward-way current is approx. 1mA conray- way voltage is approx 2.8V
o)))	The buzzer will beep when continuity resistance approx < 50	Open circuit voltage is approx 2.8V

Input Protection : max. 250V AC / DC

RESISTANCE

Range	Resolution	Accuracy
400	0.1	±(0.8%rdg + 3dgt)
4 k	1	±(0.8%rdg + 1dgt)
40 k	10	±(0.8%rdg + 1dgt)
400 k	100	±(0.8%rdg + 1dgt)
4 M	1 k	±(0.8%rdg + 1dgt)
40 M	10 k	±(1.2%rdg + 2dgt)

Maximum Open Circuit Voltage : about 1.3V.
Overload Protection : 250V AC/DC

FREQUENCY

Range	Resolution	Accuracy
40 kHz	10 Hz	±(1.2%rdg + 3dgt)
150 kHz	100 Hz	±(2.5%rdg + 3dgt)

Sensitivity : 500mV rms upto 40 kHz,
1V rms for 150kHz.
Overload Protection : 250V AC/DC

CAPACITANCE

Range	Resolution	Accuracy
400 nF	0.1 nF	±(4.0%rdg + 5dgt)
40 F	10 nF	±(4.0%rdg + 5dgt)

Maximum Open Circuit Voltage : about 3Vp-p
Overload Protection :250V AC/DC

TRANSISTOR HFE MEASUREMENT

Range	Description	Testing Condition
hFE	It can measure NPN or PNP type of transistor triode hFE parameter. Indication range : 0~1000	1b approx 10 A Vce approx 2.8V

All Specifications are subject to change without prior notice