

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.
- * Display : 3½ digit 1999 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 40°C; (32°F to 104°F).
- * Storage Temperature : -10°C to 50°C; (14°F to 122°F).
- * 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)

21 FUNCTIONS 32 RANGES



ELECTRICAL SPECIFICATIONS - KM 6030

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

DC VOLTAGE

Range	Resolution	Accuracy
200 mV	100 µV	±(0.5%rdg + 3dgts)
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
1000 V	1 V	±(1.0%rdg + 5dgts)

Input Impedance : 10MΩ

Overload Protection : 200mV is 250V DC or AC RMS. All other ranges 1000VDC or AC rms.

AC VOLTAGE

Range	Resolution	Accuracy
2 V	1 mV	±(1.0%rdg + 5dgts)
20 V	10 mV	
200 V	100 mV	
750 V	1 V	±(1.2%rdg + 5dgts)

Input Impedance : 200mV : 1MΩ, Other ranges : 10MΩ
Frequency : 40Hz-400Hz.

Overload protection : 200mV is 250VDC or AC RMS. All other ranges is 1000V DC or AC RMS.

Display : Average Value (RMS of Sine Wave).

AC CURRENT

Range	Resolution	Accuracy
2 mA	1 µA	±(1.2%rdg + 5dgts)
20 mA	10 µA	
200 mA	100 µA	±(2.0%rdg + 5dgts)
20 A	10 mA	±(3.0%rdg + 10dgts)

Overload Protection : 0.2A/250V Fuse (No fuse on 20A range).
Max Input Current : 20A (above 10A for 15 sec. maximum).
Frequency : 40Hz - 400Hz.
Display : Average value (RMS of Sine Wave).

DC CURRENT

Range	Resolution	Accuracy
2 mA	1 µA	±(1.0%rdg + 3dgts)
20 mA	10 µA	
200 mA	100 µA	±(1.5%rdg + 5dgts)
20 A	10 mA	±(2.0%rdg + 10dgts)

Overload Protection : 0.2A/250V Fuse (No fuse on 20A range).
Max Input Current : 20A (above 10A for 15 sec. maximum).
Measuring Voltage Drop : Full range is 200mV.

CAPACITANCE

Range	Resolution	Accuracy
2 nF	1 pF	±(4.0%rdg + 3dgts)
20 nF	10 pF	
200 nF	100 pF	
2 µF	1 nF	±(5.0%rdg + 3dgts)
200 µF	100 nF	

Testing frequency and voltage : around 400Hz 40mVrms.
Overload Protection : Maximum 36V DC or AC RMS.

TEMPERATURE

Range	Resolution	Accuracy
-40°C~0°C	1°C	±(5.0%rdg + 5dgts)
0°C~400°C		±(1.0%rdg + 3dgts)
400°C~1000°C		±(3.0%rdg + 4dgts)

RESISTANCE

Range	Resolution	Accuracy
200 Ω	0.1 Ω	±(1.0%rdg + 5dgts)
2 KΩ	1 Ω	
20 KΩ	10 Ω	±(1.0%rdg + 2dgts)
200 KΩ	100 Ω	
2 MΩ	1 KΩ	±(1.0%rdg + 15dgts)
20 MΩ	10 KΩ	

Voltage at Open Circuit : < 700mV (200MΩ range, open circuit voltage around 3V).
Voltage at Open Circuit : All ranges 250VDC or AC RMS.
At 200Ω range, the resistance value caused by short circuit of test load should be deducted from the measured reading during measuring.

TRANSISTOR hFE PARAMETER MEASUREMENT

Range	Comment	Measuring condition
hFE	Can measure NPN or PNP transistor hFE. Range : 0-1000 β	Basic polarity current abt 10µ A, Vce abt 2.8V.

DIODE AND CONTINUITY MEASUREMENT

	Comment	Measuring Condition
➔	1mV Display diode forward voltage	Forward DC Current about 1mA Backward DC Voltage about 2.8V
)))	- Beeper sounds if Continuity Resistance < 70Ω ± 20Ω.	Open circuit Voltage about 2.8V

Overload Protection : 250V DC or AC RMS.

FREQUENCY

Range	Resolution	Accuracy
2 KHz	1 Hz	±2.0% rdg + 5 dgts

Overload Protection : 250V DC or AC rms.
Input Sensitivity : >200mV rms

All Specifications are subject to change without prior notice