



3 1/2 DIGIT LARGE DISPLAY DIGITAL MULTIMETER WITH TERMINAL BLOCKING SYSTEM

An ISO 9001:2008 Company

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:

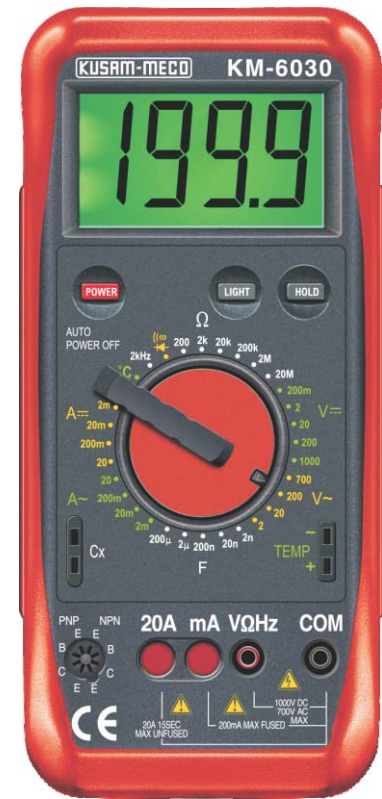
Current Clamp CA 300, Current Clamp Adaptor CA500, CA1000, CA2000, High Voltage Probe PD-28.

GENERAL SPECIFICATIONS :

- * Sensing : Average Sensing.
- * Basic Accuracy : $\pm(0.5\%rdg + 3dgt)$
- * Display : 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 | $\pm(0.5\%rdg + 3dgt)$ |
| 2 V | 1 mV | |
| 20 V | 10 mV | |
| 200 V | 100 mV | |
| 1000 V | 1 V | $\pm(0.8\%rdg + 3dgt)$ |

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 | $\pm(3.0\%rdg + 7dgt)$ |

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 | $\pm(2\%rdg + 5dgt)$ |

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 | $\pm(5.0\%rdg + 3dgt)$ |
| 200 F | 100 nF | |

Frequency measurement : Approx. 400Hz

Voltage measurement : Approx. 40mV

RESISTANCE

| Range | Resolution | Accuracy |
|-------|------------|------------------------|
| 200 | 0.1 | $\pm(0.8\%rdg + 3dgt)$ |
| 2 K | 1 | |
| 20 K | 10 | $\pm(0.8\%rdg + 2dgt)$ |
| 200 K | 100 | |
| 2 M | 1 K | $\pm(1.0\%rdg + 5dgt)$ |
| 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 | $\pm(0.75\%rdg + 4dgt)$ |
| 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,
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 | $\pm 2.0\%rdg + 5dgt)$ |

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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