KUSAM-MECO®
An ISO 9001:2015 Company

# 3½ DIGIT LARGE DISPLAY DIGITAL MULTIMETER WITH TERMINAL BLOCKING SYSTEM
## MODEL - KM 6030

THINK SAFETY
THINK KUSAM-MECO®

## 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 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 " " 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 | |
| 200 µF | 100 nF | ±(5.0%rdg + 3dgts) |

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

### RESISTANCE

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

**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.

### 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) |

### 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**


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