KUSAM-MECO®
An ISO 9001:2015 Company

# TRMS DIGITAL MULTIMETER
# MODEL-KM 60-T

THINK SAFETY
THINK KUSAM-MECO®

## FEATURES :

## 12 FUNCTIONS 39 RANGES

- ✷ Backlight Display
- ✷ Pulse Output
- ✷ Data Hold
- ✷ Non-Contact Voltage Measurement (NCV)
- ✷ Flash Light
- ✷ MAX / MIN & Rel Zero

NEW




## GENERAL SPECIFICATIONS

- ✷ **Sensing :** True RMS
- ✷ **Display :** 3-5/6 digits 6000 counts liquid crystal LCD display
- ✷ **Maximum Display :** 5999 counts
- ✷ **Sampling Time :** about 3 times / second
- ✷ **Operating Temperature :** 0°C to 40°C, Relative Humidity <80%
- ✷ **Measurement :** Double integral A/D conversion.
- ✷ **Overrange Display :** 'OL'
- ✷ **Automatic Polarity display.**
- ✷ **Auto Power Off :** about 15 minutes when no signal.
- ✷ **Low Battery Indication :** Below 2.3V
- ✷ **Power Supply :** 1.5V AAA x 2 battery.
- ✷ **Dimension :** Approx.142(L)mm x 70(W)mm x 32(H)mm
- ✷ **Weight :** Approx. 205gm (including battery).

● **ACCESSORIES :** Test leads (pair), Battery & User Manual.

## SAFETY

● **Safety :** Complies with the safety requirements IEC1010 CAT III 600V.

**Preliminary Data**

## ELECTRICAL SPECIFICATIONS : KM 60-T

Accuracy is ± (% reading digits + number of digits) or otherwise specified @ 23°C ± 5°C & less than 75% R.H.

### DC VOLTAGE

| Range | Resolution | Accuracy |
|---|---|---|
| 6 V | 0.001 V | ±(0.5%rdg + 3dgts) |
| 60 V | 0.01 V | |
| 600 V | 0.1 V | |
| 1000 V | 1 V | ±(0.8%rdg + 10dgts) |

**Input Impedance :** 10MΩ
**Overload Protection :** 6V range is 550V DC or AC peak; The rest is 1000V DC or 750V AC Peak.
**Maximum input voltage :** 750V AC (RMS) or 1000V DC

### AC VOLTAGE

| Range | Resolution | Accuracy |
|---|---|---|
| 6 V | 0.001 V | ±(0.8%rdg + 3dgts) |
| 60 V | 0.01 V | |
| 600 V | 0.1 V | |
| 750 V | 1 V | ±(1.2%rdg + 10dgts) |

**Input Impedance :** 10MΩ
Standard sine wave & triangular wave frequency response is 40Hz ~ 1kHz.
Other waveforms are : 40Hz ~ 200Hz.

### DC CURRENT

| Range | Resolution | Accuracy |
|---|---|---|
| 600 µA | 0.1 µA | ±(1.2%rdg + 10dgts) |
| 6000 µA | 1 µA | |
| 60 mA | 10 µA | ±(1.2%rdg + 10dgts) |
| 600 mA | 100 µA | |
| 6 A | 0.01 A | ±(2.0%rdg + 30dgts) |
| 10 A | 0.01 A | |

**The Maximum measured pressure drop :** 600mV
**Overload Protection :** 600µA / 6000µA / 60mA / 600mA : 600mA/250V Speed Glass Fuse.
6A / 10A : 10A : 250V Speed Glass Fuse.

### AC CURRENT

| Range | Resolution | Accuracy |
|---|---|---|
| 600 µA | 0.1 µA | ±(1.2%rdg + 10dgts) |
| 6000 µA | 1 µA | |
| 60 mA | 10 µA | ±(1.2%rdg + 10dgts) |
| 600 mA | 100 µA | |
| 6 A | 0.01 A | ±(2.0%rdg + 30dgts) |
| 10 A | 0.01 A | |

**The Maximum measured pressure drop :** 600mV
**Overload Protection :** 600µA / 6000µA / 60mA / 600mA : 600mA/250V Speed Glass Fuse.
6A / 10A : 10A : 250V Speed Glass Fuse.

**All Specifications are subject to change without prior notice.**

# ELECTRICAL SPECIFICATIONS : KM 60-T

**FREQUENCY**

| Range | Resolution | Accuracy |
|---|---|---|
| 10 Hz | 0.01 Hz | ±(0.1%rdg + 3dgts) |
| 100 Hz | 0.1 Hz | |
| 1 kHz | 1 Hz | |
| 10 kHz | 10 Hz | |
| 100 kHz | 100 Hz | |
| 1 MHz | 1 kHz | |
| 10 MHz | 10 kHz | |

**Overload Protection :** 550V DC or AC peak (less than 10 seconds)
**Input Voltage Range :** 1V rms

**RESISTANCE**

| Range | Resolution | Accuracy |
|---|---|---|
| 600 Ω | 0.1 Ω | ±(0.8%rdg + 5dgts) |
| 6 kΩ | 1 Ω | ±(0.8%rdg + 3dgts) |
| 60 kΩ | 10 Ω | |
| 600 kΩ | 100 Ω | |
| 6 MΩ | 1 kΩ | |
| 40 MΩ | 10 kΩ | ±(2.5%rdg + 3dgts) |

**Open Circuit Voltage :** Less than 3V
**Overload Protection :** 550V DC or AC Peak

**CAPACITANCE**

| Range | Resolution | Accuracy |
|---|---|---|
| 99.99 nF | 0.01 nF | ±(3.5%rdg + 20dgts) |
| 999.9 nF | 0.1 nF | |
| 9.999 µF | 0.001 µF | |
| 99.99 µF | 0.01 µF | |
| 999.9 µF | 0.1 µF | |
| 9.999 mF | 0.001 mF | ±(5.0%rdg + 3dgts) |

**Overload Protection :** 550V DC or AC peak

**DIODE & CONTINUITY TEST**

| Range | Display Value | Test condition |
|---|---|---|
|  | Diode forward voltage drop | Positive DC Current of about 1mA, open circuit voltage of about 3V. |
| | The buzzer buzzes for a long time, & the test resistance is less than (50 ± 20)Ω. | Open circuit voltage is about 3V press “SELECT” to switch between two functions. |

Overload Protection : 550V DC or AC peak.

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