KUSAM-MECO®

An ISO 9001:2015 Company

TOUCH PAD DIGITAL MULTIMETER
MODEL - KM 60

THINK SAFETY
THINK KUSAM-MECO®

FEATURES :

- Touch Pad operation.
- 6000 counts Dual display.
- IP65 waterproof
- CAT III 1000V / CAT IV 600V
- Auto backlight
- 2 colour backlight for various status indication.
- Manual range and Autorange mode
- Max/Min function
- Relative measurement mode.
- Memory Mode
- Review the data & clear the data function.
- Auto Power Off
- Automatic lock touchpad
- Test lead plug indication
- Red Backlight Alarm
- Ambient Temperature measurement
- PT100 / PT1000 Temperature Measurement
- 4-20mA%, 0-24mA%, 0-20mA% measurement.
- Sub-display frequency measurement.



Preliminary Data

GENERAL SPECIFICATIONS :

- ✶ **Display :** 3-5/6 digits LCD display. Automatic indication of functions & symbols.
- ✶ **Pollution Degree :** 2
- ✶ **Altitude :** < 2000m
- ✶ **Operating Temperature :** 0~40°C, 32°F ~ 122°F (<80% RH, <10 non-condensing)
- ✶ **Storage Temperature :** -10~60, 14°F ~ 140°F (<70% RH, battery removed)
- ✶ **Temperature Coefficient :** 0.1 x (specified accuracy) / °C (<18°C or >28°C)
- ✶ **MAX. Voltage between terminals & earth ground :** 1000V AC rms or 1000V DC.
- ✶ **Fuse Protection :** μA & mA : F 0.63A/1000V ∅10.3 x 38;
  A : F 10A/1000V ∅10.3 x 38
- ✶ **Sample Rate :** 3 times/sec for digital data.
- ✶ **Over Range Indication :** LCD will display "OL"
- ✶ **Low battery indication :** The "🔋" is displayed when the battery is below the proper operation range.
- ✶ **Polarity indication :** "-" automatically displayed.
- ✶ **Power / Battery :** 3VDC, 1.5V AA x 2
- ✶ **Dimension :** 190(L) x 90(W) X 40(H) mm
- ✶ **Weight :** 500g. approx.(battery included).

SAFETY : Complies with IEC 61010-1, CAT III 1000V & CAT IV 600V over voltage standards.

ACCESSORIES : Users Manual, Test Leads, "K" type Thermocouple, Battery & Carrying case.

ELECTRICAL SPECIFICATIONS : KM 60

Accuracy is specified for one year after calibration, at operating temperatures of 18°C to 28°C, with relative humidity at less than 80%.
Accuracy is ± (% of reading + number of Significant digits)

DC VOLTAGE

Range	Resolution	Accuracy
60 mV	0.01 mV	±(0.1%rdg + 5dgts)
600 mV	0.1 mV	±(0.1%rdg + 2dgts)
6 V	1 mV	±(0.15%rdg + 2dgts)
60 V	10 mV	
600 V	100 mV	
1000 V	1 V	

DC CURRENT

Range	Resolution	Accuracy
600 μA	0.1 μA	±(1.0%rdg + 3dgts)
6000 μA	1 μA	
60 mA	0.01 mA	
600 mA	0.1 mA	
6 A	1 mA	±(1.5%rdg + 5dgts)
10 A	10 mA	

DIODE TEST

Range	Resolution	Test Condition
3V	0.001V	Forward DC Current approximately 1mA. Reversed DC Voltage approximately 3V.

CONTINUITY CHECK

Range	Resolution	Test Condition
600 Ω	0.1Ω	Open Circuit Voltage: 0.5V

Continuity Beeper ≤ 50Ω

All Specifications are subject to change without prior notice.

ELECTRICAL SPECIFICATIONS : KM 60

AC VOLTAGE

Range	Resolution	Accuracy
60 mV	0.01 mV	±(0.8%rdg + 10dgts)
600 mV	0.1 mV	±(0.8%rdg + 3dgts)
6 V	1 mV	
60 V	10 mV	
600 V	100 mV	
1000 V	1 V	±(0.8%rdg + 5dgts)

Above accuracies can be guaranteed within 5% ~ 100% of the full range.
The TRMS meter has residual value within 10 counts when the test leads are shorten, but that will not affect the accuracy of measurement.

1. **Frequency Range for AC Voltage :** 40Hz ~ 400Hz.
2. **Response for AC Voltage :** RMS, calibrated in rms of sine wave.
3. **Overload Protection :** 1000V DC or 1000V AC rms.
4. **Input Impedance (Nominal) :** DC / AC voltage : > 10MΩ
5. <100 counts Frequency will not display. (@60mV range < 30.00mV)

AC CURRENT

Range	Resolution	Accuracy
600 µA	0.1 µA	±(1.8%rdg + 5dgts)
6000 µA	1 µA	
60 mA	0.01 mA	
600 mA	0.1 mA	
6 A	1 mA	±(2.0%rdg + 8dgts)
10 A	10 mA	

Above accuracies can be guaranteed within 5% ~ 100% of the full range.
The TRMS meter has residual value within 10 counts when the test leads are shorten, but that will not affect the accuracy of measurement.

1. **Frequency Range for AC Current :** 40Hz ~ 400Hz.
2. **Overload Protection :** F 10A /1000V fuse for 10A
   Overload Protection : F 0.63A /1000V fuse for µA & mA ranges.
3. **Maximum Input Current :** 600mA DC or 600mA AC rms for µA & mA ranges,10A DC or 10A AC rms for 10A ranges.
4. For measurements>6A, 4 minutes maximum ON to measure 10 minutes OFF, above 10A unspecified.

RESISTANCE

Range	Resolution	Accuracy
600.0 Ω	0.1 Ω	±(0.5%rdg + 3dgts)
6.000 kΩ	1 Ω	
60.00 kΩ	10 Ω	
600.0 kΩ	100 Ω	
6.000 MΩ	1 kΩ	
60.00 MΩ	10 kΩ	±(1.5%rdg + 5dgts)
PT100	0.4°C	-200~850°C ±(1.0%rdg + 1°C)
PT1000	0.4°C	

LOGIC FREQUENCY (1Hz ~ 1MHz)

Range	Resolution	Accuracy
9.999Hz	0.001Hz	±(0.1%rdg + 3dgts)
99.99 Hz	0.01Hz	
999.9 Hz	0.1Hz	
9.999kHz	0.001kHz	
99.99kHz	0.01kHz	
999.9kHz	0.1kHz	

CAPACITANCE

Range	Resolution	Accuracy
6.000nF	1pF	±(3.0%rdg + 10dgts)
60.00nF	10pF	
600.0nF	100pF	±(5.0%rdg + 10dgts)
6.000µF	1nF	
60.00µF	10nF	
600.0µF	100nF	
6.000mF	1µF	±(8.0%rdg + 20dgts)
60.00mF	10µF	±(10%rdg+30dgts)typical

LINEAR FREQUENCY (6Hz ~ 10KHz)

Range	Resolution	Accuracy
99.99Hz	0.01Hz	±(0.05%rdg + 5dgts)
999.9Hz	0.1Hz	
9.999kHz	0.001kHz	
Above accuracies can be guaranteed with 10% ~ 100% of the full range		

K-TYPE THERMOCOUPLE TEMPERATURE

Range	Resolution	Accuracy
-200°C ~ 0°C	0.1°C	±(3.0%rdg + 3°C)
1°C ~ 400°C		±(2.0%rdg + 3°C)
401°C ~ 1000°C	1°C	±2.0%rdg

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Shop no.18, 1st Floor, CIDCO Shopping Complex, Plot # 9, Sector-7, Rajiv Gandhi Marg, Sanpada, Navi Mumbai - 400705. Sales Direct : +91-9867488006, 9867675093
Email : sales@kusam-meco.co.in **Website :** www.kusamelectrical.com