KUSAM-MECO®
An ISO 9001:2015 Company

3¾ DIGIT 3999 COUNTS DIGITAL MULTIMETER

THINK SAFETY
THINK KUSAM-MECO®

11 FUNCTIONS 36 RANGES
Model 801-L

LARGE LCD DISPLAY



SPECIAL FEATURES :

- **Industrial Grade Rugged Digital Multimeter**
- **Sensing : Average**
- **Automatic Zero adjustment.**
- **Peak Hold facility**
- **OverLoad Protection 500V DC or AC rms**
- **Auto range on Frequency range & measurement upto 2 MHz.**
- **Logic Test, Diode & Continuity Test & Transistor hFE Test.**
- **Low battery indication**

ACCESSORIES :

Test Leads, Carrying Case, User's Manual & Battery.

OPTIONAL ACCESSORIES:

Current Clamp Adaptor CA500, Ca2000,
High Voltage Probe PD-28.

GENERAL SPECIFICATIONS :

- ✷ **Sensing :** Average Sensing.
- ✷ **Basic Accuracy :** ±(0.5%rdg + 1dgt)
- ✷ **Display :** 3¾ digit Max. 3999 Counts Large LCD display
- ✷ **Display Size :** 17.5 mm
- ✷ **Polarity :** Automatic, positive implied, (-) negative polarity indication
- ✷ **Measurement Rate :** 2.5 measurements / sec.
- ✷ **Over range Indication :** 'OL' is displayed.
- ✷ **Low battery :** The "🔋" sign is displayed when the battery voltage drops below the operating Voltage.
- ✷ **Operating Temperature :** 0°C to 45°C; < 70%R.H.
- ✷ **Storage Temperature :** -20°C to 60°C; < 80%R.H. (With Battery Removed)
- ✷ **Power :** Single, Standard 9V battery.
- ✷ **Dimension :** 170(L) x 80(W) x 40(H)mm
- ✷ **Weight :** Approx. 250g (including battery)

ELECTRICAL SPECIFICATIONS- 801-L

Accuracy : ± (% reading + digit) at 23 ± 5°C less than 75% RH.

RESISTANCE

Range	Resolution	Accuracy
400 Ω	0.1 Ω	±(0.8%rdg + 4dgts)
4 KΩ	1 Ω	±(0.8%rdg + 2dgts)
40 KΩ	10 Ω	
400 KΩ	100 Ω	
4 MΩ	1 KΩ	
40 MΩ	10 KΩ	±(3.0%rdg + 4dgts)
400 MΩ	100 KΩ	±(10%rdg - 10dgts)

Overload Protection : 500V DC or AC rms
Open Circuit Voltage : 0.6V DC
(3.0V DC on 400Ω and 400MΩ ranges

DIODE TEST

Test Current	Open Circuit Voltage	Accuracy
1.0 ± 0.6mA	3.0V MAX	±(3.0%rdg + 3dgts)

Overload protection : 500V DC/AC rms

CONTINUITY TEST

Audible Sound Buzzer	Less than 100Ω

Overload Protection : 500V DC/AC rms

AC VOLTAGE (50Hz~500Hz)

Range	Resolution	Accuracy
400 mV	100 µV	±(1.0%rdg + 4dgts)
4 V	1 mV	
40 V	10 mV	
400 V	100 mV	
750 V	1 V	±(1.5%rdg + 4dgts)

Input Impedance : 20MΩ
Overload Protection: 500V DC or AC rms on 400mV range, 1000V DC or 750V AC rms on all other ranges

DC VOLTAGE

Range	Resolution	Accuracy
400 mV	100 µV	±(0.5%rdg + 1dgt)
4 V	1 mV	
40 V	10 mV	
400 V	100 mV	
1000 V	1 V	

Input Impedance : 20MΩ
Overload Protection: 500V DC or AC rms on 400mV range, 1000V DC or 750V AC rms on all other ranges

AC CURRENT[(Avg. Sine Wave)(50Hz~500Hz)]

Range	Resolution	Accuracy
40 mA	10 µA	±(1.5%rdg + 4dgts)
400 mA	100 µA	
10 A	10 mA	±(3.5%rdg + 4dgts)

Overload Protection : 0.8A/250V fuse, 10A/60 sec. Input "unfused".

DC CURRENT

Range	Resolution	Accuracy
40 mA	10 µA	±(1.0%rdg + 1dgt)
400 mA	100 mA	
10 A	10 mA	±(3.0%rdg + 1dgt)

Overload Protection : 0.8A/250V fuse, 10A/60 sec. Input "unfused".

CAPACITANCE

Range	Resolution	Accuracy
4 nF	1 pF	±(5.0%rdg + 10dgts)
40 nF	10 pF	
400 nF	100 pF	
4 µF	1 nF	
40 µF	10 nF	

Test Frequency : @ 400Hz
Voltage Measurement : Approx. 40mV

TRANSISTOR hFE TEST

Range	Vce	Basic DC Current
0 to 1000	<3.5V	10 µA

FREQUENCY

Range	Resolution	Accuracy
2 MHz	1 Hz	±(0.1%rdg + 1dgt)

Overload Protection : 500V DC or AC rms
Input Sensitivity : 50mV on 10Hz-1MHz, 2V on 1MHz-4MHz
Effective reading : 10 - 3999

LOGIC TEST

Threshold	
Logic Hi(▲)	Logic Lo(▼)
2.8V ± 0.8V	0.8V ± 0.5V

Overload protection : 500V DC/AC rms
Detectable pulse width : 25nS
Pulse Limits : >30% & < 70% duty Cycle
Indication : 40msec beeper at logic low
Frequency Response : 20MHz

All Specifications are subject to change without prior notice

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