

# KUSAM-MECO® 3¾ DIGIT 3999 COUNTS

An ISO 9001:2008 Company

## DIGITAL MULTIMETER

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

### GENERAL SPECIFICATIONS :

- \* Sensing : Average Sensing.
- \* Basic Accuracy :  $\pm(0.5\%rdg + 1dgt)$
- \* 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 "E" 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 :  $\pm$  (% reading + digit) at 23  $\pm$  5°C less than 75% RH.

### AC VOLTAGE (50Hz-500Hz)

Range	Resolution	Accuracy
400 mV	100 V	$\pm(1.0\%rdg + 4dpts)$
4 V	1 mV	
40 V	10 mV	$\pm(1.5\%rdg + 4dpts)$
400 V	100 mV	
750 V	1 V	

Input Impedance : 20M

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 V	$\pm(0.5\%rdg + 1dgt)$
4 V	1 mV	
40 V	10 mV	$\pm(0.5\%rdg + 1dgt)$
400 V	100 mV	
1000 V	1 V	

Input Impedance : 20M

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

### RESISTANCE

Range	Resolution	Accuracy
400	0.1	$\pm(0.8\%rdg + 4dpts)$
4 K	1	$\pm(0.8\%rdg + 2dpts)$
40 K	10	
400 K	100	
4 M	1 K	$\pm(3.0\%rdg + 4dpts)$
40 M	10 K	
400 M	100 K	$\pm(10\%rdg - 10dpts)$

Overload Protection : 500V DC or AC rms

Open Circuit Voltage : 0.6V DC  
(3.0V DC on 400 and 400M ranges)

### DIODE TEST

Test Current	Open Circuit Voltage	Accuracy
1.0 $\pm$ 0.6mA	3.0V MAX	$\pm(3.0\%rdg + 3dpts)$

Overload protection : 500V DC/AC rms

### CONTINUITY TEST

Audible Sound Buzzer	Less than 100
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Overload Protection : 500V DC/AC rms

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

Range	Resolution	Accuracy
40 mA	10 A	$\pm(1.5\%rdg + 4dpts)$
400 mA	100 A	
10 A	10 mA	$\pm(3.5\%rdg + 4dpts)$

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

### DC CURRENT

Range	Resolution	Accuracy
40 mA	10 A	$\pm(1.0\%rdg + 1dgt)$
400 mA	100 mA	
10 A	10 mA	$\pm(3.0\%rdg + 1dgt)$

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

### CAPACITANCE

Range	Resolution	Accuracy
4 nF	1 pF	$\pm(5.0\%rdg + 10dpts)$
40 nF	10 pF	
400 nF	100 pF	
4 F	1 nF	$\pm(5.0\%rdg + 10dpts)$
40 F	10 nF	

Test Frequency : @ 400Hz

Voltage Measurement : Approx. 40mV

### FREQUENCY

Range	Resolution	Accuracy
2 MHz	1 Hz	$\pm(0.1\%rdg + 1dgt)$

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 $\pm$ 0.8V	0.8V $\pm$ 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

### TRANSISTOR hFE TEST

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

All Specifications are subject to change without prior notice

**KUSAM-MECO®**

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