

KUSAM-MECO[®]**3³/₄ 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 : 3³/₄ 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-LAccuracy : \pm (% reading + digit) at 23 \pm 5°C less than 75% RH.**AC VOLTAGE (50Hz~500Hz)**

Range	Resolution	Accuracy
400 mV	100 μ 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 Ω

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 μ 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 Ω

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

Overload Protection : 500V DC or AC rms

Open Circuit Voltage : 0.6V DC

(3.0V DC on 400 Ω and 400M Ω 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 Ω
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Overload Protection : 500V DC/AC rms

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

Range	Resolution	Accuracy
40 mA	10 μ A	$\pm(1.5\%rdg + 4dpts)$
400 mA	100 μ 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 μ A	$\pm(1.0\%rdg + 1dgt)$
400 mA	100 μ A	
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 μ F	1 nF	$\pm(5.0\%rdg + 10dpts)$
40 μ F	10 nF	

Test Frequency : @ 400Hz

Voltage Measurement : Approx. 40mV

TRANSISTOR hFE TEST

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

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(\uparrow)	Logic Lo(\downarrow)
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

All Specifications are subject to change without prior notice

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