

**SPECIAL FEATURES :**

- Basic Accuracy : 0.3% DCV
- 25ms Max Hold
- Fully Autoranging
- Data Hold
- Relative Zero Mode
- Beep/Jack audible warning against improper plug in
- Diode Test
- Fast audible Continuity Test
- Fire retarded case
- Splash proof construction.
- Auto power off

**GENERAL SPECIFICATIONS**

- \* Sensing : Average sensing
- \* Display : 3-3/4 digits 4000 counts large easy to read LCD display
- \* Update Rate : 3 per second nominal
- \* Polarity : Automatic
- \* Operating Temperature : 0°C to 40°C
- \* Relative Humidity : Maximum 80% R. H. For temperature upto 31°C decreasing linearly to 50% Relative Humidity at 40°C
- \* Altitude : Operating below 2000m
- \* Pollution degree : 2
- \* Storage Temperature : -20°C to 60°C, < 80% R.H. (With battery removed)
- \* Temperature Coefficient : nominal 0.15 x (specified accuracy) / °C @ (0°C--18°C or 28°C--40°C), or otherwise specified
- \* Low Battery : Below approx 2.4V
- \* Power supply : Standard 1.5V AAA Battery x 2.
- \* Power Consumption : 3.2mA typical
- \* Sleep mode Timing : Idle for 30 minutes
- \* Sleep mode Consumption : 300µA typical
- \* Dimension : 186(L) x 87(W) x 35.5(H) mm ; 198(L) x 97(W) x 55 (H) mm with Holster.
- \* Weight : Approx. 296 gms; 396gm with holster.

**SAFETY :**

- The meter protection rating, against the users, is double insulation per IEC/UL/EN61010-1 Ed.3.0, IEC/EN61010-2-030 Ed.1.0, IEC/EN61010-2-033 Ed. 1.0, IEC/UL/EN61010-031 Ed. 1.1 & CAN / CSA C22.2 No. 61010-1-12 Ed. 3.0 to Category II 1000V, CAT III 600V & CAT IV 300V AC & DC.
- Transient Protection : 6kV (1.2/50µs surge)
- Terminals (to COM) Measurement Category :  
V / A / mAµA : CAT II 1000V, CAT III 600V & CAT IV 300V AC & DC.
- Overload Protection :  
µA & mA : 0.4A/1000V DC/AC rms, IR 30kA @ 1000V DC/AC rms  
A : 11A/1000V DC/AC rms, IR 20kA @ 1000V DC/AC rms  
V : 1100V DC/ACrms  
Hz, Ohm & Other : 1000V DC/AC rms.
- EMC : Meets EN61326-1:2013  
In an RF field of 3V/m :  
Capacitance function is not specified  
AC 4.000V range : Total Accuracy = Specified Accuracy + 700 dgts  
AC 400.0µA range : Total Accuracy = Specified Accuracy + 300 dgts  
Other function ranges : Total Accuracy = Specified Accuracy + 40 dgts  
Performance above 3V/m is not specified.

**ACCESSORIES :** Test lead (pair), Holster, Battery installed, User Manual & Carrying case.**20 FUNCTIONS 39 RANGES****NEW****Model KM 805s**

All Specifications are subject to change without prior notice.

## ELECTRICAL SPECIFICATIONS : KM 805s

Accuracy is  $\pm$  (%readings digits + number of digits) or otherwise specified, at 23°C  $\pm$  5°C & less than 75% R.H.

### DC VOLTAGE

Range	Resolution	Accuracy
400.0 mV	100 $\mu$ V	$\pm(0.3\%rdg + 4dpts)$
4.000 V	1 mV	$\pm(0.5\%rdg + 3dpts)$
40.00 V	10 mV	$\pm(0.5\%rdg + 3dpts)$
400.0 V	100 mV	$\pm(0.5\%rdg + 3dpts)$
1000 V	1 V	$\pm(1.0\%rdg + 4dpts)$

Input Impedance : 10M $\Omega$ , 30pF nominal  
(1000M $\Omega$  for 400.0 mV range)

### DC CURRENT

Range	Resolution	Accuracy	Burden Voltage
400.0 $\mu$ A	0.1 $\mu$ A	$\pm(2.0\%rdg + 5dpts)$	0.15mV/ $\mu$ A
4000 $\mu$ A	1 $\mu$ A	$\pm(1.2\%rdg + 3dpts)$	0.15mV/ $\mu$ A
40.00mA	10 $\mu$ A	$\pm(2.0\%rdg + 5dpts)$	3.3mV/mA
400.0mA	100 $\mu$ A	$\pm(1.2\%rdg + 3dpts)$	3.3mV/mA
4.000A	1 mA	$\pm(2.0\%rdg + 5dpts)$	0.03V/A
10.00A*	10 mA	$\pm(1.2\%rdg + 3dpts)$	0.0V/A

\*10A continuous, >10A to 20A for 30 seconds max with 5 minutes cool down interval.

### AC CURRENT

Range	Resolution	Accuracy <sup>1)</sup>	Burden Voltage
<b>50Hz – 500Hz</b>			
400.0 $\mu$ A	0.1 $\mu$ A	$\pm(2.0\%rdg + 6dpts)$	0.15mV/ $\mu$ A
4000 $\mu$ A	1 $\mu$ A	$\pm(1.5\%rdg + 4dpts)$	0.15mV/ $\mu$ A
40.00mA	10 $\mu$ A	$\pm(2.0\%rdg + 6dpts)$	3.3mV/mA
400.0mA	100 $\mu$ A	$\pm(1.7\%rdg + 4dpts)$	3.3mV/mA
4.000A	1 mA	$\pm(2.0\%rdg + 6dpts)$	0.03V/A
10.00A*	10 mA	$\pm(1.8\%rdg + 4dpts)$	0.03V/A

\*10A continuous, >10A to 20A for 30 seconds max with 5 minutes cool down interval.

### Hz FREQUENCY

Range*	Accuracy**
50.00Hz	0.5% + 4d
500.0Hz	
5.000kHz	
50.00kHz	
500.0kHz	
1.000MHz	

\* Additional 5.000Hz range accuracy & sensitivity are not specified.

\*\* Accuracy is specified at <20VAC rms  
Input Signal : Square wave with duty cycle > 40% & <70%, or Sine wave Vrms AC.

#### Sensitivity :

10Hz--20Hz : > Sine 0.9Vrms ;  
20Hz--500kHz : > 2.6Vp; or Sine 1.9Vrms  
500kHz--1MHz : > 4.2Vp; or Sine 3Vrms  
Update Rate : 2 per second nominal.

### AC VOLTAGE

Range	Resolution	Accuracy
<b>50Hz ~ 500Hz</b>		
400.0 mV*	100 $\mu$ V	$\pm(4.0\%rdg + 5dpts)$
4.000 V	1 mV	$\pm(1.5\%rdg + 5dpts)$
40.00 V	10 mV	$\pm(1.5\%rdg + 5dpts)$
400.0 V	100 mV	$\pm(1.5\%rdg + 5dpts)$
1000 V	1 V	$\pm(4.0\%rdg + 5dpts)$

Input Impedance : 10M $\Omega$ , 30pF nominal

\* Selection by RANGE Button manually, and is specified from AC 10mV & up.

### RESISTANCE

Range	Resolution	Accuracy
400.0 $\Omega$	100 m $\Omega$	$\pm(0.8\%rdg + 6dpts)$
4.000 K $\Omega$	1 $\Omega$	$\pm(0.6\%rdg + 4dpts)$
40.00 K $\Omega$	10 $\Omega$	
400.0 K $\Omega$	100 $\Omega$	$\pm(1.0\%rdg + 4dpts)$
4.000 M $\Omega$	1 k $\Omega$	
40.00 M $\Omega$	10 k $\Omega$	$\pm(2.0\%rdg + 4dpts)$

Open Circuit Voltage : 0.4VDC typical.

### CAPACITANCE

Range*	Resolution	Accuracy**
500.0nF	0.1 nF	3.5%*** + 6dpts
5.000 $\mu$ F	1 nF	
50.00 $\mu$ F	10 nF	
500.0 $\mu$ F	100 nF	
3000 $\mu$ F	1 $\mu$ F	

\* Additional 50.00nF range accuracy is not specified

\*\* Accuracies with film capacitor or better

\*\*\* Specified with battery voltage above 2.8V (approximately half full battery). Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V.

### AUDIBLE CONTINUITY TESTER

Audible Threshold
between 10 $\Omega$ and 120 $\Omega$

### DIODE TESTER

Test Current (Typical)	0.25mA
Open Circuit Voltage	<1.6V DC

### MAX HOLD (Voltage & Current)

Specified accuracy $\pm$ 50 digits for changes >25ms in duration
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E-mail : [sales@kusam-meco.co.in](mailto:sales@kusam-meco.co.in)

Website : [www.kusamelectrical.com](http://www.kusamelectrical.com)