

KUSAM-MECO[®]

An ISO 9001:2015 Company

1000A DC / 800A AC, 4000 COUNTS**CLAMP-ON DMM**THINK SAFETY
THINK **KUSAM-MECO**[®]**SPECIAL FEATURES :**

- DC 1000A / AC 800A Clamp-on + Full Multimeter ranges
- Versatile & Handy
- Fully Auto-ranging on all functions
- Backlighted Display (Model 2754A-T)
- 30ms Max HOLD to capture in-rush currents
- Data Hold, Max Hold & Relative Zero Mode
- Fast Audible continuity Test & Diode Test
- Auto power off

Model - 2754 A- Average Sensing

2754 A-T - TRMS Sensing

16 FUNCTION 30 RANGES

17 FUNCTION 30 RANGES

GENERAL SPECIFICATIONS :

- * **Sensing :** Average sensing (Model 2754A)
AC TRMS Voltage & Current functions (Model 2754A-T)
- * **Jaws Opening size :** 50mm Max.
- * **Display :** 3½ digits 4000 counts
- * **Update Rate :** 3 per second nominal
- * **Polarity :** Automatic
- * **Operating Temperature :** 0°C ~ 40°C
- * **Relative Humidity :** Maximum 80%R.H. for Temperature upto 31°C decreasing linearly to 50% R.H. at 40°C
- * **Altitude :** Operating below 2000m
- * **Storage Temperature :** -20°C ~ 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
- * **Power Supply :** Standard 1.5V AAA Battery x 2
- * **Power Consumption :** typical 11mA for DCA / ACA & 2.9mA for other Functions
- * **Low Battery :** Below approx. 2.5V
- * **APO timing :** Idle for 30 minutes
- * **APO Consumption :** typical 10µA (Model 2754A); typical 190µA (Model 2754A-T)
- * **Dimension :** 227(L) x 78(W) x 40(H)mm
- * **Weight :** approx 290 gms.

**SAFETY :**

- **Safety :** Meets IEC61010-2-032(2002), EN61010-2-032 (2002), UL61010B-2-032(2003)
- **Measurement Category :** CAT III 600V AC & DC
- **E.M.C. :** Meets EN61326(1997, 1998/A1), EN61000-4-2 (1995), & EN61000-4-3 (1996)
In an RF Field of 3V/m :
Capacitance function is not specified
Other function ranges : Total accuracy = Specified accuracy + 45 digits
Performance above 3V/m is not specified
- **Overload Protection :**
Clamp-on jaws : DC 1000A or AC 800A rms continuous
+ & COM terminals : 600VDC/VAC rms
- **Pollution Degree :** 2
- **Transient Protection :** 6.5kV (1.2/50µs surge)
- **Battery cover with Probe holders**
- **Rugged Fire retarded casing.**
- **LVD EN61010-2-032 CAT III 600V**

ACCESSORIES :

Test lead pair, Batteries installed, User's manual & Carrying case

All Specifications are subject to change without prior notice

ELECTRICAL SPECIFICATIONS : 2754A / 2754A-T

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

Model 2754A-T ACV & ACA clamp-on accuracies are specified from 5% to 100% of range or otherwise specified.

Maximum Crest Factor are as specified below, and with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth or non-sinusoidal waveform.

AC CURRENT (CLAMP-ON)

Range	Resolution	Accuracy ¹⁾²⁾
400.0A		
15Hz~40Hz	0.1 A	$\pm(2.0\%rdg + 5dgts^3)$
40Hz~200Hz		$\pm(1.5\%rdg + 5dgts)$
200Hz~400Hz @<50A ⁴⁾		$\pm(2.0\%rdg + 5dgts)$
400Hz~1KHz @<50A ⁴⁾		$\pm(2.0\%rdg + 5dgts)$
800A		
15Hz~40Hz	1 A	$\pm(2.0\%rdg + 5dgts^3)$
40Hz~100Hz		$\pm(1.5\%rdg + 5dgts)$
15Hz~60Hz		$\pm(5.0\%rdg + 30dgts)$

¹⁾ Induced error from adjacent current-carrying conductor : < 0.01A/A

²⁾ Model - 2754A-T True RMS

Crest Factor : < 1.6:1 at full scale & < 3.2:1 at half scale

³⁾ 4.0% + 5d (for Model - 2754A-T)

⁴⁾ Accuracy is specified at <50A in this frequency bandwidth due to limited calibrator output capability for testing

DC CURRENT (CLAMP-ON)

Range	Resolution	Accuracy ¹⁾²⁾
400.0A		
0A ~ 400A	0.1 A	$\pm(1.5\%rdg + 4dgts)$
1000A		
400A ~ 800A	1 A	$\pm(1.5\%rdg + 4dgts)$
800A ~ 900A		$\pm(2.0\%rdg + 4dgts)$
900A ~ 1000A		$\pm(5.0\%rdg + 30dgts)$

¹⁾ Induced error from adjacent current-carrying conductor : < 0.01A / A

²⁾ Relative Zero Δ mode is applied to offset the non-zero residual readings, if any.

CAPACITANCE

Range ¹⁾	Resolution	Accuracy ²⁾³⁾
500.0 nF	0.1 nF	$\pm(3.5\%rdg + 6dgts)$
5.000 μ F	1 nF	
50.00 μ F	10 nF	
500.0 μ F	100 nF	
3000 μ F	1 μ F	

¹⁾ Additional 50.00nF range accuracy is not specified.

²⁾ Accuracies with film capacitor or better

³⁾ 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

DIODE TESTER

Open Circuit Voltage	Test Current (Typical)
< 1.6 VDC	0.4mA

DC VOLTAGE

Range	Resolution	Accuracy
400.0 mV	0.1 mV	$\pm(0.3\%rdg + 3dgts)$
4.000 V	1 mV	$\pm(0.5\%rdg + 3dgts)$
40.00 V	10 mV	$\pm(0.5\%rdg + 3dgts)$
400.0 V	100 mV	$\pm(0.5\%rdg + 3dgts)$
600 V	1 V	$\pm(1.0\%rdg + 4dgts)$

NMRR: > 50dB @ 50Hz / 60Hz

CMRR: > 120dB @ DC, 50Hz / 60Hz, Rs=1K Ω

Input Impedance : 10M Ω , 30pF nominal;

(1000M Ω for 400.0mV range)

AC VOLTAGE

Range	Resolution	Accuracy
50Hz ~ 500Hz		
400.0 mV ¹⁾	100 μ V	$\pm(4.0\%rdg + 4dgts)$
50Hz ~ 60Hz		
4.000 V	1 mV	$\pm(1.0\%rdg + 4dgts)$
40.00 V	10 mV	$\pm(1.0\%rdg + 4dgts)$
400.0 V	100 mV	$\pm(1.0\%rdg + 4dgts)$
60Hz ~ 500Hz		
4.000 V	1 mV	$\pm(1.5\%rdg + 4dgts)$
40.00 V	10 mV	$\pm(1.5\%rdg + 4dgts)$
400.0 V	100 mV	$\pm(1.5\%rdg + 4dgts)$
50Hz ~ 500Hz		
600 V	1 V	$\pm(2.0\%rdg + 4dgts)$

CMRR: > 60dB @ DC to 60Hz, Rs = 1K Ω

Input Impedance : 10M Ω , 30pF nominal

Model 2754A-T True RMS Crest Factor :

<1.6 : 1 at full scale & < 3.2 : 1 at half scale

¹⁾ Selection by RANGE button manually, and is specified from AC 40mV, (AC 60mV for Model 2754A-T) & up

RESISTANCE

Range	Resolution	Accuracy
400.0 Ω	0.1 Ω	$\pm(0.8\%rdg + 6dgts)$
4.000 k Ω	1 Ω	$\pm(0.6\%rdg + 4dgts)$
40.00 k Ω	10 Ω	$\pm(0.6\%rdg + 4dgts)$
400.0 k Ω	100 Ω	$\pm(0.6\%rdg + 4dgts)$
4.000 M Ω	1 k Ω	$\pm(1.0\%rdg + 4dgts)$
40.00 M Ω	10 k Ω	$\pm(2.0\%rdg + 4dgts)$

Open Circuit Voltage : 0.4VDC typical

All Specifications are subject to change without prior notice



Email : sales@kusam-meco.co.in Web.: www.kusamelectrical.com