

SPECIAL FEATURES :

- DC 1000A / AC 800A Clamp-on + Full Multimeter ranges
- Versatile & Handy
- Fully Auto-ranging on all functions
- Backlight Display
- 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 - 2754A-T TRMS Sensing

17 FUNCTION 30 RANGES

GENERAL SPECIFICATIONS :

- * **Sensing** : AC TRMS Voltage & Current functions
- * **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 190µA
- * **Dimension** : Approx. 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-T

Accuracy is $\pm$ (% of reading digits + number of digits) or otherwise specified, at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ & less than 75% R.H.

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⁾
400.0A		
15Hz~40Hz	0.1 A	$\pm(2.0\%\text{rdg} + 5\text{dgts})$
40Hz~200Hz		$\pm(1.5\%\text{rdg} + 5\text{dgts})$
200Hz~400Hz @<50A ⁴⁾		$\pm(2.0\%\text{rdg} + 5\text{dgts})$
400Hz~1KHz @<50A ⁴⁾		
800A		
15Hz~40Hz	1 A	$\pm(2.0\%\text{rdg} + 5\text{dgts})$
40Hz~100Hz		$\pm(1.5\%\text{rdg} + 5\text{dgts})$
15Hz~60Hz		$\pm(5.0\%\text{rdg} + 30\text{dgts})$

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

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

4.0% + 5d

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	$\pm(1.5\%\text{rdg} + 4\text{dgts})$
1000A		
400A ~ 800A	1 A	$\pm(1.5\%\text{rdg} + 4\text{dgts})$
800A ~ 900A		$\pm(2.0\%\text{rdg} + 4\text{dgts})$
900A ~ 1000A		$\pm(5.0\%\text{rdg} + 30\text{dgts})$

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	$\pm(3.5\%\text{rdg} + 6\text{dgts})$
5.000 μF	1 nF	
50.00 μF	10 nF	
500.0 μF	100 nF	
3000 μF	1 μF	

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	$\pm(0.3\%\text{rdg} + 3\text{dgts})$
4.000 V	1 mV	$\pm(0.5\%\text{rdg} + 3\text{dgts})$
40.00 V	10 mV	$\pm(0.5\%\text{rdg} + 3\text{dgts})$
400.0 V	100 mV	$\pm(0.5\%\text{rdg} + 3\text{dgts})$
600 V	1 V	$\pm(1.0\%\text{rdg} + 4\text{dgts})$

NMRR: > 50dB @ 50Hz / 60Hz

CMRR: > 120dB @ DC, 50Hz / 60Hz, $R_s=1\text{K}\Omega$

Input Impedance : $10\text{M}\Omega$, 30pF nominal;

($1000\text{M}\Omega$ for 400.0mV range)

AC VOLTAGE

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

CMRR: > 60dB @ DC to 60Hz, $R_s = 1\text{K}\Omega$

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

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

¹⁾ Selection by RANGE button manually, & is specified from AC 60mV & up

RESISTANCE

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

Open Circuit Voltage : 0.4VDC typical

All Specifications are subject to change without prior notice



Sales Direct : +91-9867488006, 9867675093

Email : sales@kusam-meco.co.in

Web.: www.kusamelectrical.com