



## 1000A DC / 800A AC, 4000 COUNTS CLAMP-ON DMM

Model - 2754 A - AVERAGE SENSING 16 FUNCTION 30 RANGES  
2754 A-T - TRUE RMS SENSING 17 FUNCTION 30 RANGES

### 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

### 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 10 A (Model 2754A); typical 190 A (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 (1.2/50 s 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 <sup>1)2)</sup>
<b>400.0A</b>		
15Hz~40Hz	0.1 A	$\pm(2.0\%rdg + 5dgts^3)$
40Hz~200Hz		$\pm(1.5\%rdg + 5dgts)$
200Hz~400Hz @ <50A <sup>4)</sup>		$\pm(2.0\%rdg + 5dgts)$
400Hz~1KHz @ <50A <sup>4)</sup>		$\pm(2.0\%rdg + 5dgts)$
<b>800A</b>		
15Hz~40Hz	1 A	$\pm(2.0\%rdg + 5dgts^3)$
40Hz~100Hz		$\pm(1.5\%rdg + 5dgts)$
15Hz~60Hz		$\pm(5.0\%rdg + 30dgts)$

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

<sup>2)</sup> Model - 2754A-T True RMS

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

<sup>3)</sup> 4.0% + 5d (for Model - 2754A-T)

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

### DC CURRENT (CLAMP-ON)

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

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

<sup>2)</sup> Relative Zero mode is applied to offset the non-zero residual readings, if any.

### CAPACITANCE

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

<sup>1)</sup> Additional 50.00nF range accuracy is not specified.

<sup>2)</sup> Accuracies with film capacitor or better

<sup>3)</sup> 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

Input Impedance : 10M , 30pF nominal;

(1000M for 400.0mV range)

### AC VOLTAGE

Range	Resolution	Accuracy
<b>50Hz ~ 500Hz</b>		
400.0 mV <sup>1)</sup>	100 V	$\pm(4.0\%rdg + 4dgts)$
<b>50Hz ~ 60Hz</b>		
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	$\pm(1.0\%rdg + 4dgts)$
<b>60Hz ~ 500Hz</b>		
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	$\pm(1.5\%rdg + 4dgts)$
<b>50Hz ~ 500Hz</b>		
600 V	1 V	$\pm(2.0\%rdg + 4dgts)$

CMRR: > 60dB @ DC to 60Hz, Rs = 1K

Input Impedance : 10M , 30pF nominal

Model 2754A-T True RMS Crest Factor :

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

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

### RESISTANCE

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

Open Circuit Voltage : 0.4VDC typical

Authorized Distributor

**KUSAM-MECO**<sup>®</sup>  
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