

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

An ISO 9001:2008 Company

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 : 3³/₄ 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 ± (% of reading digits + number of digits) or otherwise specified, at 23°C ± 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		±(2.0%rdg + 5dgts ³⁾)
40Hz~200Hz	0.1 A	±(1.5%rdg + 5dgts)
200Hz~400Hz @<50A4)	0.1 A	$\pm(1.5\%10g + 50g(s))$
400Hz~1KHz @<50A4)		±(2.0%rdg + 5dgts)
800A		
15Hz~40Hz		±(2.0%rdg + 5dgts ³⁾)
40Hz~100Hz	1 A	±(1.5%rdg + 5dgts)
15Hz~60Hz		±(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	±(1.5%rdg + 4dgts)
1000A		
400A ~ 800A		±(1.5%rdg + 4dgts)
800A ~ 900A	1 A	\pm (2.0%rdg + 4dgts)
900A ~ 1000A		±(5.0%rdg + 30dgts)

¹⁾Induced error from adjacent current- carrying conductor : < 0.01A / A ²⁾ Relative Zero 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	
5.000 F	1 nF	
50.00 F	10 nF	±(3.5%rdg + 6dgts)
500.0 F	100 nF	
3000 F	1 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	±(0.3%rdg + 3dgts)
4.000 V	1 mV	±(0.5%rdg + 3dgts)
40.00 V	10 mV	±(0.5%rdg + 3dgts)
400.0 V	100 mV	±(0.5%rdg + 3dgts)
600 V	1 V	±(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
50Hz ~ 500Hz		
400.0 mV ¹⁾	100 V	±(4.0%rdg + 4dgts)
50Hz ~ 60Hz		
4.000 V	1 mV	±(1.0%rdg + 4dgts)
40.00 V	10 mV	±(1.0%rdg + 4dgts)
400.0 V	100 mV	±(1.0%rdg + 4dgts)
60Hz ~ 500Hz		
4.000 V	1 mV	±(1.5%rdg + 4dgts)
40.00 V	10 mV	±(1.5%rdg + 4dgts)
400.0 V	100 mV	±(1.5%rdg + 4dgts)

50Hz ~ 500Hz

600 V $\pm (2.0\%$ rdg + 4dgts) 1 V

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

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

RESISTANCE

$\pm (0.8\% rdg + 6dgts)$ $\pm (0.6\% rdg + 4dgts)$
±(0.6%rdg + 4dgts)
$\pm (0.6\%$ rdg + 4dgts)
±(0.6%rdg + 4dgts)
±(1.0%rdg + 4dgts)
±(2.0%rdg + 4dgts)

Open Circuit Voltage : 0.4VDC typical

All Specifications are subject to change without prior notice



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KUSAM-MECO[®] USE TRUE RMS WHEN MEASURING An ISO 9001:2008 Company AC WAVEFORMS

The waveforms on today's AC power lines are anything but clean. Electronic equipment such as office computers, with their switching power supplies, produce harmonics that distort power-line waveforms. These distortions make measuring AC voltage inaccurate when you use an averaging DMM.

Average voltage measurements work fine when the signal you're measuring is a pure sine wave, but errors mount as the waveform distorts. By using true RMS measurements, however, you can measure the equivalent heating effect that a voltage produces, including the heating effects of harmonics. Table 1 shows the difference between measurements taken on averaging DMMs & those taken on true RMS DMMs. In each case, the measured signal's peak-to-peak value is 2V. Therefore, the peak value is 1V.

For a 1-V peak sine wave, the average & RMS values are both 0.707V. But when the input signal is no longer a sine wave, differences between the RMS values & the average readig values occur. Those errors are most prominent when you are measuring square waves & pulse waveforms, which are rich in harmonics.

Table 1. Average vers	sus true RN	/IS comparis	on of typica	I waveforms.
Waveform	Actual Pk-Pk	True RMS Reading	Average Reading	Reading Error
Sine Wave	2.000	0.707	0.707	0%
Triangle Wave	2.000	0.577	0.555	-3.8%
Square Wave	2.000	1.000	1.111	+11.1%
Pulse (25% duty Cycle)	2.000	0.433	0.416	-3.8%
Pulse (12.5% duty Cycle)	2.000	0.331	0.243	-26.5%
Pulse (6.25% duty Cycle)	2.000	0.242	0.130	-46.2%

One limitation to making true RMS measurements is crest factor, and you should consider crest factor when making AC measurements. Crest factor is the ratio of a waveform's peak ("crest") voltage to its RMS voltage. Table 2 shows the crest factors for ideal waveforms.

Table 2. Crest factors of ty	pical waveforms.
Waveform	Crest Factor
DC	1.000
Square Wave	1.000
Sine Wave	1.414
Triangle Wave	1.732
Pulse (25% duty Cycle)	1.732
Pulse (12.5% duty Cycle)	2.646
Pulse (6.25% duty Cycle)	3.873

A DMM's specifications should tell you the maximum crest factor that the meter can handle while maintaining its measurement accuracy. True RMS meters can handle higher crest factors when a waveform's RMS voltage is in the middle of the meter's range setting. Typically, a DMM may tolerate a crest factor of 3 near the top of its scale but it might handle a crest factor of 5 that's in the middle of the range. Therefore, if you're measuring waveforms with high crest factors (greater than 3), you should adjust the DMM so the measured voltage is closest to the center of the measurement range.

Another limitation of true RMS is speed. If you're measuring relatively clean sine waves, then you can save time & money by using as averaging DMM. True RMS meters cost more than averaging meters and can take longer to produce measurements, especially when measuring millivolt-level AC signals. At those low levels, true RMS meters can take several seconds to stabilize a reading. Averaging meters won't leave you waiting.

LIST OF PRODUCTS

- * Digital Multimeter
- * Digital AC & AC/DC Clampmeter
- * AC Clamp Adaptor
- * AC/DC Current Adaptor
- * Transistorised Electronic Analog & Digital Insulation Resistance Testers
- * Digital Sound Level Meter & Sound Level Calibrator
- * Digital contact & Non-contact Type Tachometer
- * Digital Non-contact (infrared) Thermometer
- * Thermo Hygrometer
- * Thermo Anemometer
- * Wood Moisture Meter
- * Distance Meter
- * Digital Hand Held Temperature Indicators
- * Digital Lux Meter
- * Network Cable Tester
- * Power Factor Regulator
- * Maximum Demand Controller/Digital Power Meter

KUSAM-MECO

17, Bharat Industrial Estate, T. J. Road, Sewree (W), Mumbai-400015. INDIA Sales Direct: 24156638 Tel.:(022)2412 4540, 2418 1649 Fax:(022)2414 9659 E-mail : kusam_meco@vsnl.net, Website : www.kusamelectrical.com www.kusam-meco.co.in

KUSAM-MECO

CLAMP-ON MULTIMETER 2754A 2754A-T(TRUE RMS)

OPERATION MANUAL

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WARRANTY

Each "KUSAM-MECO" product is warranted to be free from defects in material and workmanship under normal use & services.

The warranty period is one year (12 months) and begins from the date of despatch of goods. In case any defect occurs in functioning of the instrument, under proper use, within the guarantee period, the same will be rectified by us free of charges, provided the to and fro freight charges are borne by you.

This warranty does not apply for damaged IC's, burnt PCB's fuses, disposable batteries, carrying case, test leads, or to any product which in KUSAM-MECO's opinion, has been misused, altered, neglected, contaminated or damaged by accident or abnormal conditions of operation or handling.

Any dealer/customer wanting to avail postwarranty calibration services should forward the meters to Mumbai at their cost & risk along with calibration charges. The meters so received will be calibrated and sent back.

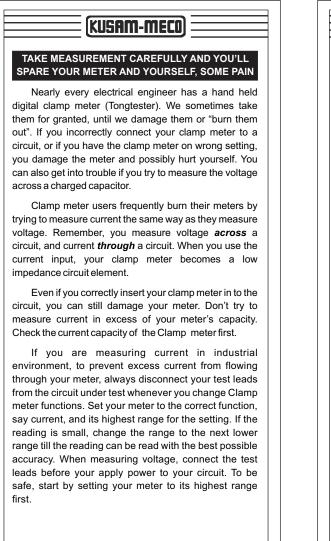
This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose or use. KUSAM-MECO will not be liable for any special, indirect, incidental or consequential damages.

All transaction are subject to Mumbai Jurisdition.

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G-17, Bharat Industrial Estate, T.J.Road, Sewree (W), Mumbai - 400015. (INDIA) Sales Direct : 24156638 Tel : 91-22-2412 4540, 2418 1649 Fax : 91-22-2414 9659 Email : kusam_meco@vsnl.net Website : www.kusamelectrical.com Www.kusam-meco.co.in





(KUSAM-MECO) ACCURACY RESULT RANGE Capacitance 500 nF ± 3.5% + 6d ± 3.5% + 6d 5 μF μF ± 3.5% + 6d 50 500 μF ± 3.5% + 6d ± 3.5% + 6d 3000 μF Diode Test Continuity Test TESTED BY 20

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	MUMBAI	
]	EST CERTIFICA	TE
CLAM	P-ON MULT	METER
MODEL:2754 DATE :	IA/2754A-T SR. NO.	:) BY :
RANGE	ACCURACY	RESULT
DC Current (C		
400 A	1.5% + 4d	
800 A	1.5% + 4d	
900 A	2.0% + 4d	
1000 A	5.0% + 30d	
AC Current (C	,	
400 A 600 A	$\pm 2.0\% + 5d$ $\pm 2.0\% + 5d$	
800 A	$\pm 2.0\% + 50$ $\pm 5.0\% + 30d$	
	± 5.0% + 300	
DC Voltage	10.00/ 1.04	
400 mV 4 V	$\pm 0.3\% + 3d$	
4 V 40 V	$\pm 0.5\% + 3d$ $\pm 0.5\% + 3d$	
40 V 400 V		
400 V 600 V	± 0.5% + 3d	
	± 1.0% + 4d	
AC Voltage	1400/141	
400 mV	$\pm 4.0\% + 4d$	
4 V 40 V	± 1.0% + 4d	
	± 1.0% + 4d	
400 V	± 1.0% + 4d	
600 V Resistance	± 2.0% + 4d	
<u>400 Ω</u>	$\pm 0.8\% + 6d$	
<u>4 kΩ</u>	$\pm 0.6\% + 4d$	
40 kΩ	$\pm 0.6\% + 4d$	
400 kΩ	$\pm 0.6\% + 4d$	
4 M 40 MQ	± 1.0% + 4d	
ZLI IV/()	± 2.0% + 4d	

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(KUSAM-MECO) (KUSAM-MECO) = 1) SAFETY **BATTERY REPLACEMENT** This manual contains information and warnings that The meter uses standard 1.5V AAA Size battery X 2, must be followed for operating the instrument safely or 1.5V AAA size alkaline battery X 2. and maintaining the instrument in a safe operating Loosen the 2 captive screws form the battery cover condition. If the instrument is used in a manner not case. Lift the battery cover case. Replace the specified by the manufacturer, the protection provided batteries. Replace battery cover case. Re-fasten the by the instrument may be impaired. screws. The meter meets the requirements for double insulation to IEC61010-2-032(2002), EN61010-2-032(2002), UL61010B-2-032(2003): Category III 600 Volts AC and DC. PER IEC61010 OVERVOLTAGE INSTALLATION CATEGORY OVERVOLTAGE CATEGORY II Equipment of OVERVOLTAGE CATEGORY II is energy-consuming equipment to be supplied from the fixed installation. Note-Examples include household, office, and laboratory appliances. OVERVOLTAGE CATEGORY III Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations. Note - Examples include switches in the fixed installation and some equipment for industrial use with permanent connection to the fixed installation. OVERVOLTAGE CATEGORY IV Equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installation. Note - Examples include electricity meters and primary over-current

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protection equipment.

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MAINTENANCE

To avoid electrical shock, disconnect the meter from any circuit, remove the test leads from the input jacks and turn OFF the meter before opening the case. Do not operate with open case.

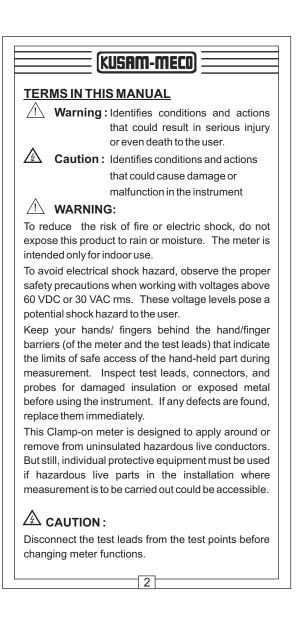
Trouble Shooting

If the instrument fails to operate, check batteries and test leads etc., and replace as necessary. Double check operating procedure as described in this user's manual.

If the instrument voltage-resistance input terminal has subjected to high voltage transient (caused by lighting or switching surge to the system) by accident or abnormal conditions of operation, the series fusible resistors will be blown off (become high impedance) like fuses to protect the user and the instrument. Most measuring functions through this terminal will then be open circuit. The series fusible resistors and the spark gaps should then be replaced by qualified technician. Refer to the Warranty section for obtaining warranty and repairing service.

Cleaning and storage

Periodically wipe the case with a damp cloth and mild detergent; do not use abrasives or solvents. If the meter is not to be used for periods of longer than 60 days, remove the batteries and store it separately.



	(KUSAM-MECO)
NTERN	ATIONAL ELECTRICAL SYMBOLS
\mathbb{A}	Caution ! Refer to the explanation in this Manual
Æ	Caution ! Risk of electric shock
<u> </u>	Earth (Ground)
	Double Insulation or Reinforced insultation
	Fuse
\sim	ACAlternating Current.
	DCDirect Current
4	Application around and removal from hazardous live conductors is permitted

(KUSAM-MECO) = **RELATIVE ZERO** \triangle **MODE** Relative Zero riangle mode allows the user to offset the meter consecutive measurements with the displaying reading as the reference value. The display will now show readings relative to the stored reference value. That is, display= reading - stored value. Press the \triangle button momentarily to toggle to the relative zero mode. The annunciator " \triangle " turns on. The meter also enters manual ranging mode where available. The annunciator "AUTO" turns off. MANUAL OR AUTO-RANGING Press the RANGE button momentarily to select manual -ranging mode, and the meter will remain in the range it was in, the LCD annunciator "AUTO" turns off. Press the button momentarily again to step through the ranges. Press and hold the button for 1 second or more to resume auto-ranging mode. Display Backlight (available in 2754A-T only) Press the SELECT button for 1 second or more to toggle the display backlight on and off.

AUTO POWER OFF (APO)

When the meter is on, the Auto Power Off (APO) feature will switch the meter to sleep mode automatically after approximately 30 minutes of no slide-switch nor push button operations to extend battery life. To wake up the meter from APO, press any push-buttons momentarily or set the slide-switch to the OFF position and then slide back on again. Always set the slide-switch to the OFF position manually when the meter is not in use.

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(Defective). An OL indicates an open diode (defective). Reverse the test leads connections (reverse biased) across the diode. The digital display shows OL if the diode is good. Any other readings indicate the diode is resistive or shorted (defective).

⊣⊢ CAPACITANCE FUNCTION

Inputs are made through the test leads terminals. Slide-switch on defaults at Ω . Press **SELECT** button momentarily 3 times to select $\neg \vdash$ Capacitance function. Relative zero \triangle mode can be used to zero out the parasitic capacitance of the leads and the internal protection circuitry of the meter when measuring low capacitance in the order of Pico Farad (pF).

CAUTION

Discharge capacitors before making any measurement. Large value capacitors should be discharged through an appropriate resistance load.

HOLD

The Hold feature freezes the display for later viewing. Press the **HOLD** button momentarily to toggle to the Hold feature. The annunciator "H" turns on.

MAX

The max feature compares and displays the measured maximum value as fast as 30ms with autoranging capability. It allows the meter to capture inrush currents in current functions. Press and hold the **MAX** button for 1 second or more to toggle to the max feature. The annunciators **"MAX"** and **"** " turn on.

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SPECIFICATIONS

GENERAL SPECIFICATIONS:

Display : 3³/₄ digits 4000 counts LCD display(s)

Update Rate : 3 per second nominal Polarity : Automatic

Low Battery : Below approx. 2.4V

Operating Temperature : 0°C to 40°C

Relative Humidity : Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C

Altitude : Operating below 2000m

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

Sensing : Average sensing for Model 2754A; True RMS for Model 2754A-T

Safety : Meets IEC61010-2-032(2002), EN61010-2-032(2002), UL61010B-2-032(2003)

Category III 600 Volts AC & DC.

Transient protection : 6.5kV (1.2/50µS surge)

Pollution degree : 2

E.M.C.: Meets EN61326(1997, 1998/A1), EN61000-4-2(1995), and EN61000-4-3(1996)

In an RF field of 3V/m:

Capacitance function is not specified

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Other function ranges :

Total Accuracy = Specified Accuracy + 45 digits

Performance above 3V/m is not specified

Overload Protections:

Clamp-on jaws : DC 1000A or AC 800A rms continuous + & COM terminals (all functions): 600VDC/VAC rms

Power Supply : Standard 1.5V AAA size battery X 2; or 1.5V AAA size alkaline battery X 2

Power Consumption : typical 11mA for ACA/DCA and 2.9mA for other functions

APO Timing : Idle for 30 minutes

APO Consumption : typical 10 μ A for Model 2754A & 190 μ A for Model 2754A-T

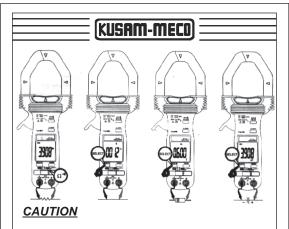
Dimension : 227(L) X 78(W) X 40(H)mm

Weight: 290gm approx

Jaw opening & Conductor diameter : 50mm max

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Accessories : Test lead pair, batteries installed, manual & soft carrying case.



Using Resistance, Continuity or Diode function in a live circuit will produce false results and may damage the instrument. In many cases the suspected component must be disconnected from the circuit to obtain an accurate measurement reading.

$\Omega \ \underline{\textbf{RESISTANCE AND}} \circledast \underline{\textbf{CONTINUITY}} \\ \underline{\textbf{FUNCTIONS}}$

Inputs are made through the test leads terminals. Slide-switch on defaults at Ω . Press **SELECT** button momentarily to select \Im) Continuity function which is convenient for checking wiring connections and operation of switches. A continuous beep tone indicates a complete wire.

→ <u>DIODE TEST FUNCTION</u>

Inputs are made through the test leads terminals. Slide-switch on defaults at Ω . Press **SELECT** button momentarily 2 times to select \rightarrow Diode test function. Normal forward voltage drop (forward biased) for a good silicon diode is between 0.400V to 0.900V. A reading higher than that indicates a leaky diode (defective). Azero reading indicates a shorted diode

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CAUTION

(Application and removal of the Clamp-on meter)

Press the jaw trigger and clamp the jaws around only one single conductor of a circuit for load current measurement. Make sure the jaws are completely closed, or else it will introduce measurement errors. Enclosing more than one conductor of a circuit will result in differential current (like identifying leakage current) measurement. Locate the conductor(s) at the jaws center as much as possible to get the best measuring accuracy. The jaw arrow-mark indicates current flow direction on DCA positive readings. For removal, press the jaw trigger and remove the jaws from the conductor(s).

Note : In DCA measurements, hysteresis of the jaws (after measuring high DC currents) may introduce non-zero residual readings. Relative Zero \triangle mode should be used to offset the residual readings, if any, so as to get more accurate measurements. Adjacent current-carrying devices such as transformers, motors and conductor wires will affect measurement accuracy. Keep the jaws away from them as much as possible to minimize influence.

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ELECTRICAL SPECIFICATIONS

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

True RMS 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 for non-sinusoidal waveofrms.

DC VOLTAGE

Range	Accuracy	Resolution
400.0 mV	0.3% + 3d	0.1 mV
4.000 V		0.001 V
40.00 V	0.5% + 3d	0.01 V
400.0 V		0.1 V
600 V	1.0% + 4d	1 V

NMRR : >50dB @ 50/60Hz **CMRR** : >120dB @ DC 50/60Hz, Rs =1kΩ **Input Impedance** : 10MΩ, 30pF nominal (1000MΩ for 400.0mV range)

AC VOLTAGE

Range	Accuracy	Resolution
50Hz ~ 500	Hz	
400.0mV ¹⁾	4.0% + 4d	0.1 mV
50Hz ~ 60H	Z	
4.000V		0.001 V
40.00V	1.0% + 4d	0.01 V
400.0V		0.1 V

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AC VOLTA	GE	
Range	Accuracy	Resolution
60Hz ~ 50)Hz	
4.000V		0.001 V
40.00V	1.5% + 4d	0.01 V
400.0V		0.1 V
50Hz ~ 50)Hz	
600V	2.0% + 4d	1 V

CMRR : >60dB @DC to 60Hz, Rs =1k Ω **Input Impedance** : 10M Ω , 30pF nominal True RMS Model 2754A-T 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 True RMS) and up.

OHMS

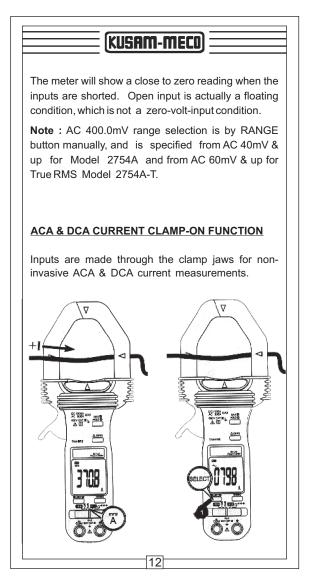
Range	Accuracy	Resolution
400.0 Ω	0.8% + 6d	0.1 Ω
4.000 ΚΩ		1 Ω
40.00 KΩ	0.6% + 4d	10 Ω
400.0 KΩ		100 Ω
4.000 MΩ	1.0% + 4d	1 ΚΩ
40.00 MΩ	2.0% + 4d	10 KΩ

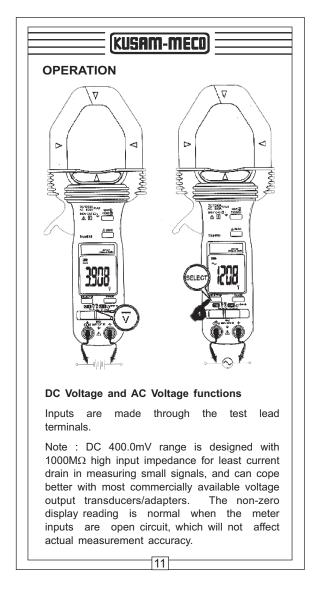
Open Circuit Voltage : 0.4VDC typical

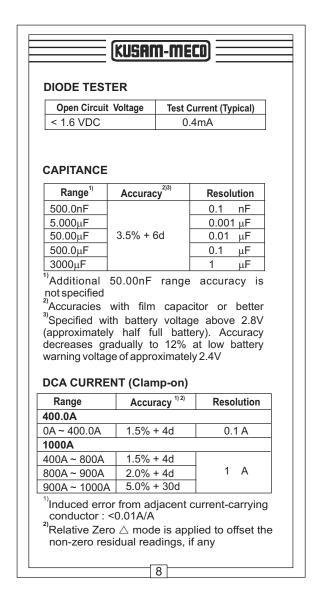
Audible Continuity Tester

Open Circuit Voltage : 0.4VDC typical Range : 400.0Ω ; Accuracy : 1.5% + 6d Audible threshold : between 10Ω and 120Ω .









Range	Accuracy ^{1) 2)}	Resolution
400.0A		
15Hz~40Hz	$2.0\% + 5d^{3}$	_
40Hz~200Hz	1.5% + 5d	1 A
200Hz~400Hz @<50A ^{₄)}	1.5% + 5d	
400Hz~1kHz @<50A ^{₄)}	2.0% + 5d	
800A		
15Hz~40Hz @400A~600A	2.0% + 5d ³⁾	
40Hz~100Hz @400A~600A	1.5% + 4d	1 A
15Hz~60Hz @600A~800A	5.0% + 30d	
1.6:1 at full 4.0% + 5d for Accuracy is sp	del 2754A-T Cre scale & < 3.2:1 True RMS Mode ecified at <50A to limited calibr	at half scale el 2754A-T in this freque

