



DT-339

DIGITAL AC T-RMS/DC LEAKAGE CURRENT CLAMP METER

This CEM AC T-RMS / DC Leakage Current clamp meter can measure AC/DC Current up to 1mA. The 5000 Counts backlit LCD Display provides higher resolution at greater range. The flashlight near the clamp jaw helps in accessing dark areas. The facility to measure capacitance, temperature and frequency makes it very useful for all maintenance purpose. The most reliable test tool for any shop floor engineer.

FEATURES

- 3-4/5 Digits 5000 Counts Backlit LCD with analogue Bargraph
- Built-in Flash light to access dark area
- 19mm jaw size makes it very useful for low current measurement
- MAX / MIN record and Relative Measurement
- Data Hold to free the display
- Auto Power Off facility after 30 mins
- Low Battery and Overload indication
- Measures from 1mA up to 80 A AC T-RMS / DC
- AC Current measuring bandwidth 50 to 60Hz
- AC T-RMS/DC Voltage measurement
- AC Voltage measuring Bandwidth 50 – 400Hz
- Resistance, Capacitance and Frequency Measurement
- Temperature measurement using K type Thermocouple
- 2 x 1.5V AAA Battery operated
- Operating Temperature: 5 to 40°C (41°F to 104°F)
- Storage Temperature: -20 to 60°C (-4°F to 140°F)
- Operating Humidity: Max 80% up to 31°C decreasing linearly to 50% at 40°C
- Storage Humidity < 80% RH
- Operating Altitude 3000 m
- 9V Battery Operated
- Size: 232 x 77 x 39 mm / Weight: 271g.
- Safety: CAT-III 600V, CE, IEC-61010-1

SPECIFICATIONS

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
AC True RMS Current	5000mA	1mA	$\pm 2.8\%$ of rdg ± 25 digits
	80.0A	100mA	$\pm 3\%$ of rdg ± 8 digits

Over rang protection : Maximum input 80A

Frequency Response : 50Hz to 60Hz True RMS

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
DC Current	5000mA	1mA	$\pm 2.8\%$ of rdg ± 30 digits
	80.0A	100mA	$\pm 3\%$ of rdg ± 8 digits

Over rang protection : Maximum input 80A

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
DC Voltage (Auto-ranging)	500.0mV	0.1mV	$\pm 0.8\%$ of rdg ± 5 digits
	5.000V	1mV	$\pm 1.0\%$ of rdg ± 3 digits
	50.00V	10mV	$\pm 1.0\%$ of rdg ± 3 digits
	500.0V	100mV	$\pm 1.0\%$ of rdg ± 3 digits
	600V	1V	$\pm 2\%$ of rdg ± 3 digits

Maximum Input : 600V dc

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
AC True RMS Voltage (Auto-ranging)	500.0mV	0.1mV	$\pm 1.0\%$ of rdg ± 15 digits
	5.000V	1mV	$\pm 1.5\%$ of rdg ± 5 digits
	50.00V	10mV	$\pm 1.5\%$ of rdg ± 5 digits
	500.0V	100mV	$\pm 1.5\%$ of rdg ± 5 digits
	600V	1V	$\pm 2\%$ of rdg ± 8 digits

AC Response : 50 Hz to 400Hz

Maximum Input : 600V AC RMS.

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
AC True RMS Voltage (Auto-ranging)	500.0 Ω	0.1 Ω	$\pm 1\%$ of rdg ± 4 digits
	5.000k Ω	1 Ω	$\pm 1.5\%$ of rdg ± 2 digits
	50.00k Ω	10 Ω	$\pm 1.5\%$ of rdg ± 2 digits
	500.0k Ω	100 Ω	$\pm 1.5\%$ of rdg ± 2 digits
	5.000M Ω	1k Ω	$\pm 2.5\%$ of rdg ± 5 digits
	50.00M Ω	10k Ω	$\pm 3.5\%$ of rdg ± 5 digits

Input Protection : 250V DC or 250V AC RMS.

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
Capacitance (Auto-ranging)	5.000nF	1pF	$\pm 5\%$ of rdg ± 30 digits
	50.00nF	10pF	$\pm 5\%$ of rdg ± 20 digits
	500.0nF	0.1nF	$\pm 3\%$ of rdg ± 5 digits
	5.000uF	1nF	$\pm 3\%$ of rdg ± 5 digits
	50.00uF	10 nF	$\pm 3\%$ of rdg ± 5 digits
	500.0uF	0.1uF	$\pm 5\%$ of rdg ± 5 digits

Input Protection : 250V DC or 250V AC RMS.

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
Frequency (Auto-ranging)	5.000Hz	0.001Hz	$\pm 1.2\%$ of rdg ± 3 digits
	50.00Hz	0.01Hz	$\pm 1.2\%$ of rdg ± 3 digits
	500.0Hz	0.1Hz	$\pm 1.2\%$ of rdg ± 3 digits
	5.000KHz	1Hz	$\pm 1.2\%$ of rdg ± 3 digits
	50.00KHz	10Hz	$\pm 1.2\%$ of rdg ± 3 digits
	500.0KHz	100Hz	$\pm 1.2\%$ of rdg ± 3 digits
	5.000MHz	1KHz	$\pm 1.2\%$ of rdg ± 3 digits
	10.00MHz	10KHz	$\pm 1.5\%$ of rdg ± 3 digits

Sensitivity : >15V RMS

Function	Range	Resolution	Accuracy (% of reading $\pm$ digits)
Temperature	-20°C~+760°C	0.1°C	$\pm 2\%$ of rdg $\pm 3^\circ\text{C}$
	-4°F~+1400°F	0.1°F	$\pm 2\%$ of rdg $\pm 3^\circ\text{F}$

Sensor : Type K Thermocouple

Input Protection : 250V DC or 250V AC RMS.

Function	Testing Condition	Reading
Diode	Forward DCA is approx. 1mA, open circuit Voltage MAX . 1.5V	Forward voltage drop of Diode
Continuity	Test current MAX. 1.5mA	Buzzer makes a long sound, While resistance is less than (50 Ω)

INCLUDED ACCESSORIES:

- Carrying Case
- Testing Leads
- Temperature Probe
- Instruction Manual
- Battery
- Test Report