



DT-3391

DIGITAL AC T-RMS CLAMP METER

The CEM DT-3391 Digital AC T-RMS Clamp meter is designed with ergonomic concepts, shaped to fit your hand and to access tight spots as well as wide bus bars. This is a rugged, heavy-duty clamp meter that measures AC Currents accurately irrespective of the type of waveform of current. It also can measure AC/DC Voltage, Resistance, Capacitance, Frequency, Duty Cycle and Temperature. It has Diode and Continuity Test as well.

The large backlit LCD makes it easy to use in dark areas. The Non Contact Voltage Detector shows the presence of live wires while taking measurements. The Data Hold and Relative measurement facilities add versatility to the meter making it useful for wide range of applications. The meter confirms to IEC 1010-1 (2001): EN61010-1 (2001) Overvoltage Category III 1000V and Category IV 600V, Pollution Degree 2.

FEATURES

- 3-3/4 Digits 3999 Counts Backlit LCD Display
- Has AC Voltage Measuring Bandwidth of 50 – 400Hz
- The AC Current measuring frequency is 50 – 60Hz
- Data Hold and Relative Measurement
- Low Battery and Over-Range Indication
- Auto Power Off after approx. 30 mins.
- Measures Capacitance up to 100uF
- Frequency measurement up to 10MHz
- Current Measurement up to 1000A AC T-RMS
- AC T-RMS/DC Voltage up to 600V
- Temperature measurement using K type Thermocouple
- Clamp Jaw Dia of 52mm
- 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 7000 ft
- 9V Battery Operated
- Size: 270 x 100 x 47 mm / Weight: 452g.
- Safety: IEC 61010-1, CAT IV 600V, CAT III 600V, CE

SPECIFICATIONS

Function	Range	Resolution	Accuracy
AC Current True RMS (50 to 60Hz)	40A	0.01A	± (2.2 % ± 12 Digits)
	400A	0.1A	± (2.5 % ± 5 Digits)
	1000A	1A	

Function	Range	Resolution	Accuracy
DC Voltage	400mV	0.1mV	± (0.8 % ± 2 Digits)
	4V	0.001V	± (1.5 % ± 2 Digits)
	40V	0.01V	
	400V	0.1V	
	600V	1V	± (2.0 % ± 4 Digits)

Input Protection: 1000V DC.

Function	Range	Resolution	Accuracy
AC Voltage True RMS (50Hz to 400Hz)	4V	0.001V	± (1.5 % ± 8 Digits)
	40V	0.01V	
	400V	0.1V	
	600V	1V	± (2.0 % ± 4 Digits)

Input Protection: 1000V AC RMS.

Function	Range	Resolution	Accuracy
Resistance	400Ω	0.1Ω	± (1.0 % ± 4 Digits)
	4 KΩ	0.001 KΩ	± (1.5 % ± 2 Digits)
	40 KΩ	0.01 KΩ	
	400 KΩ	0.1 KΩ	
	4 MΩ	1 KΩ	± (2.5 % ± 3 Digits)
40 MΩ	10 KΩ	± (3.5 % ± 5 Digits)	

Input Protection: 600V DC or 600V AC RMS

Function	Range	Resolution	Accuracy
Capacitance	40.00nF	10pF	± (5 % ± 30 Digits)
	400.0nF	0.1nF	± (3 % ± 5 Digits)
	4.000uF	1nF	
	40.00uF	10nF	
	100.0uF	0.1uF	± (5 % ± 5 Digits)

Input Protection: 600V DC or 600V AC RMS

Function	Range	Resolution	Accuracy
Frequency	9.999Hz	0.001Hz	± (1.5 % ± 5 Digits)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	1Hz	
	99.99kHz	10Hz	
	999.9kHz	100Hz	
	9.99MHz	10kHz	

Sensitivity: >5V RMS (5Hz to 10MHz)

Function	Range	Resolution	Accuracy
Duty Cycle	0.1% - 99.9%	0.1%	± (1.2 % ± 2 Digits)

Function	Range	Resolution	Accuracy
Temperature (type-K) (probe accuracy not included)	-20 to 760°C	1°C	± (3 % ± 5 Digits)
	-4 to 1400°C	1°F	

Input Protection: 600V DC or 600V 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 (150Ω)

Input Protection: 600V DC or 600V AC RMS.

INCLUDED ACCESSORIES

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