

true rms, double insulation coil, smart, auto range

# FLEXIBLE CLAMP METER

Model : CMF-3200

ISO-9001, CE, IEC1010

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02-2389-0101



**Lutron**

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*The Art of Measurement*

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## FEATURE

* Meet IEC 1010, CAT III 1000 V safety requirement.
* 6000 counts A/D, high resolution.
* True RMS
* Double insulation coil.
* ACA, DCV, ACV, ohms, continuity. Capacitance, Diode.
* Smart function, Auto range.
* Smart operation, Build in 3 intelligent function : " V ", " Ω ", " A ".
* " V " function can select DCV, ACV automatically with auto range.
* " Ω " function can select the Resistance , Diode, Continuity beeper, Capacitance automatically with auto range.
* " ACA " 600A " & " 3000A " automatically.
* Data hold .
* Auto shut off is available to save battery life.
* 10 M ohm impedance for voltage circuit.
* Built-in overload protection for most ranges.
* LSI circuit provides high reliability and durability.
* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.

## GENERAL SPECIFICATION

Display	33.5 mm x18.7 mm, LCD display.
Measurement	DCV, ACV, ACA, Resistance,Capacitance, Diode, Continuity beeper.
A/D counts no.	6000 counts.
Smart function	* " V " function can select ACV, DCV automatically with auto range. * " Ω " function can select the Resistance,Diode, Continuity beeper,Capacitance automatically with auto range. * ACA " 600A ", " 3000A " automatically with auto range.
Data hold	To freeze the display reading on the LCD display.
Power On/Off management	Auto power of or manual power off.
Selection	Smart function or auto function .
Polarity	Automatic Switching, " - " indicates negative polarity.
Sampling time	Approx. 0.5 to 1 second.
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F)
Operating humidity	Max. 80% RH.
Power supply	DC 1.5 V battery ( UM-4, AAA ) x 2.
Power consumption	Approx. DC 16.1 mA.
Flexible cable length	300 mm.
Flexible Cable Diameter	8 mm.
Dimension	290 x138.3 x 26.5 mm ( 11.4x 5.4 x 1.0 inch ).
Weight	197 g/0.435 LB ( w.o battery ).
Accessories included	Operation manual...1 PC Test leads ( CATIII 1000 V )... 1 pair
Optional accessory	Soft carrying case

**ELECTRICAL SPECIFICATIONS (23± 5 °C)**

<b>AC Current * true rms</b>	
Range	600 A/3000 A
Resolution	0.1A /1 A

<b>AC Current * true rms</b>		
Accuracy	600 A Range	± ( 1% +8d ).
	3000 A Range	± ( 1% +10d ).
Linearity	± 0.2% of reading value from 10% to 100% of range value.	
Conductor position sensitivity	± 2% of reading value * The measured conductor distance from center > 25 mm (1" ) .	
External field influence	Increase ± 1.5% of range value max. * Recommend the distance between different " Flexibel current probe " should > 200 mm.	
Remark	* Accuracy is specified that the measured conductor's position is on the center of " Flexible current probe ". * ACA specification be tested on sine wave 50/60 Hz. * Measurement range : 0.1 A to 3000 A	

<b>DC Voltage</b>	
Range	6 V/60 V/600 V /1000 V
Resolution	0.001V /0.01V /0.1V/1 V
Accuracy	± ( 0.8% + 5d )
Input impedance	10 M ohm.
Over load protection	± 1000 DCV, 1000 ACV

<b>AC Voltage * true rms</b>	
Range	6 V/60 V/600 V/1000 V
Resolution	0.001 V /0.01 V /0.1 V/1 V
Accuracy	± ( 1% + 8d ) * Spec. are tested under 50/60 Hz.
Input impedance	10 M ohm.
Over load protection	± 1000 DCV, 1000 ACV
Smart function test	It must be > 300 mV AC.

<b>Diode</b>
Short/non conductance, good/defect test

<b>Capacitance</b>	
Range	6 nF/60 nF/600 nF/6 uF/60 uF/600 uF
Resolution	0.001nF/0.01nF/0.1 nF/0.001uF/0.01uF/0.1uF
Accuracy	± ( 3 % + 10d )
Over load protection	± 30 DCV, 30 ACV.
Remark	* Discharge capacitor before testing. * Smart function must be > 0.4 nF.

<b>OHMS</b>	
Range	600 Ω /6 KΩ /60 KΩ /600 KΩ /6 MΩ /60 MΩ
Resolution	0.1 Ω /0.001 KΩ /0.01 KΩ /0.1 KΩ /0.001 MΩ /0.01 MΩ
Accuracy	600 ohm : ± ( 1 % + 5d )    6K/60K/600K/6M/60M : ± ( 1.5 % + 5d )
Over load protection	± 350 DCV, 350 ACV.

Remark	60MΩ measurements must be operated in the automatic shift mode
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<b>Continuity Beeper</b>
Beeper will sound if measured resistance less than 20 ohm.

\* Appearance and specifications listed in this brochure are subject to change without notice.

CMF-3200+1511

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