

AC/DC AUTOMOTIVE CLAMP METER

MODEL CM-04

Features

1. 10 mA high resolution on 40A DC/AC range
2. Temperature (°C or °F) and Capacitance.
3. One touch zero for DCA adjustment.
4. Auto-range for V, A, Ω, F, and temperature.
5. RPM (CM-04) for automotive application.
6. 23 mm diameter jaw.
7. Fast bargraph display (20 times/sec.) for transient observation.
8. Continuity and frequency measurements.
9. Max/Min and Data Hold functions.
10. 600V overload protection for ohm measurement.
11. Ideal for works in crowded switch box or cable areas.



Specifications(23°C ± 5°C)

DC Current:

Range	Resolution	Accuracy	Overload Protection
40A	10mA	±1.5%±2dgts	DC 400A
0-150A	100mA	±1.5%±2dgts	DC 400A
150-200A	100mA	±2.2%±2dgts	DC 400A

AC Current:

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 1KHz	
40A	10mA	±1.5% ±3dgts	±2.0% ±4dgts	AC 400A
0-150A	100mA	±1.5% ±3dgts	±2.0% ±4dgts	AC 400A
150-200A	100mA	±2.2% ±3dgts	±2.5% ±4dgts	AC 400A

DC Voltage: (Overload Protection: 600V)

Range	Resolution	Accuracy	Overload Protection
400mV	0.1 mV	±1.5%±3dgts	10MΩ
4V	1 mV	±1.5%±3dgts	5MΩ
40V	10 mV	±1.5%±3dgts	5MΩ
400V	100 mV	±1.5%±3dgts	5MΩ
600V	1V	±1.5%±3dgts	5MΩ

Continuity:

(open voltage 0.4V, Overload Protection AC 600V)

Range	Resolution	Accuracy	Beeping
40-400Ω	0.1Ω	±1.0%±2dgts	<40.0Ω(approx.)

AC Voltage:(Input Impedance: 5 MΩ)

Range	Resolution	Accuracy		Overload Protection
		50/60 Hz	40 - 1KHz	
0.01-4V	1mV	±1.5% ±5dgts	±2.0% ±5dgts	AC 800V
40V	10mV	±1.5% ±5dgts	±2.0% ±5dgts	AC 800V
400V	100mV	±1.5% ±5dgts	±2.0% ±5dgts	AC 800V
600V	1V	±1.5% ±5dgts	±2.0% ±5dgts	AC 800V

Resistance (Ω):(open voltage 0.4V)

Range	Resolution	Accuracy	Overload Protection
400Ω	0.1Ω	±1.5%±2dgts	AC 600V
4KΩ	1Ω	±1.5%±2dgts	AC 600V
40KΩ	10Ω	±1.5%±2dgts	AC 600V
400KΩ	100Ω	±1.5%±2dgts	AC 600V
4MΩ	1KΩ	±1.5%±2dgts	AC 600V
40MΩ	10KΩ	±1.5%±2dgts	AC 600V

Frequency

(CM-02, Auto, sensitivity selected by pressing RANGE Button):

Range (Hz)	Resolution (Hz)	Accuracy	Sensitivity	O.L Protection
100-100K	0.01 - 100 Hz	±0.5% ±2dgts	0.01/0.1/1V	AC 600V

RPM (CM-04 with Option RPM Adapter):

Range (RPM)	Resolution (RPM)	Accuracy	Overload Protection
0-9999	1	±0.5%±2dgts	AC 600V

TEMPERATURE


(K Type Thermal Couple with Adapter, °C or °F)

Range	Resolution	Accuracy	Overload Protection
-40 - 0 °C	0.1 °C	±2.0% ±2 °C	AC 600V
0 - 400 °C	0.1 °C	±0.5% ±2 °C	AC 600V
400 - 1000 °C	1 °C	±0.5% ±2 °C	AC 600V
-40 - 0 °F	0.1 °F	±2.0% ±4 °F	AC 600V
0 - 400 °F	0.1 °F	±0.5% ±4 °F	AC 600V
400 - 1800 °F	1 °F	±0.5% ±4 °F	AC 600V

CAPACITANCE:

Range	Resolution	Accuracy	Overload Protection
4nF	1pF	±5.0% ±0.2 nF	AC 600V
40nF	10pF	±5.0% ±0.2 nF	AC 600V
400nF	0.1nF	±3.0% ±0.2 nF	AC 600V
4μ	1nF	±3.0% ±0.002μF	AC 600V
40μF	10nF	±3.0% ±0.02μF	AC 600V

General Specification

Conductor Size:	23mm max. (approx.)
Battery Type:	two 1.5V SUM-3
Display:	3 3/4 LCD with 40 seg. Bargraph
Range Selection:	manual
Overload Indication:	left most digit blinks
Power Consumption:	10 mA (approx.)
Low battery Indication:	
Sampling Time:	2 times/sec.(display)
	20 times/sec. (bargraph)
Operating Temperature:	-10°C to 50°C
Operating Humidity:	less than 85% relative
Altitude:	up to 2000M
Storage Temperature:	-20°C to 60°C
Storage Humidity:	less than 75% relative
Dimension	183mm(L)x63.6mm (W) x 35.6mm (H)
	7.2" (L) x 2.5" (W) x 1.4" (H)
Weight:	190g (battery included)
Accessories:	Adapter
	(for Capacitance and K-type Thermal Couple)
	Carrying bag x 1
	Users manual x 1
	1.5V battery x 2
Option:	RPM adapter