

# CM-02 mini-HVAC Clamp Meter

## Electrical Specifications (23°C ±5°C)

### DC Current:

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

### AC Current:

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

### DC Voltage: (Overload Protection: 600V)

Range	Resolution	Accuracy	Input Impedance
400mV	0.1 mV	±1.5%±3dpts	10MΩ
4V	1 mV	±1.5%±3dpts	5MΩ
40V	10 mV	±1.5%±3dpts	5MΩ
400V	100 mV	±1.5%±3dpts	5MΩ
600V	1V	±1.5%±3dpts	5MΩ

### AC Voltage:

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

### Frequency:

(Auto range, sensitivity selected by pressing RANGE Button)

Range (Hz)	Resolution	Accuracy	Sensitivity	O.L Protection
100-10K	0.01-10Hz	±0.5%±2dpts	0.01/0.1/1V	AC 600V

### Audible Continuity:

(Open circuit voltage 0.4V, Overload Protection AC 600V)

Range	Resolution	Accuracy	Beeper
40-400Ω	0.1Ω	±1.0%±2dpts	<40Ω (approx.)

### Resistance (Ω): (Open circuit voltage 0.4V)

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

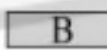
### Temperature: (K Type Thermal Couple with Adapter, °C or °F)

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: (Auto range & Manual)

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
4μF	1nF	±3.0%±0.02μF	AC 600V
40μF	10nF	±3.0%±0.02μF	AC 600V

### General Specifications:

Conductor Size:	23mm max. (approx.)
Battery Type:	two 1.5V SUM-3
Display:	3 3/4 Digits (4000 Counts)
Range Selection:	Auto and 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
Storage Temperature:	-20°C to 60°C
Storage Humidity:	less than 75% relative
Altitude:	up to 2000M
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) x 1 K-type Thermocouple x 1 Carrying bag x 1 Users manual x 1 1.5V battery x 2

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