

User's Manual for 88CP9 Amp Klamp



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OPERATING INSTRUCTIONS FOR 88CP9 AMP KLAMP

Thank you for purchasing the 88CP9, a smaller sized, convenient to use AC Current Clamp-On Adapter for the Victor 88E Multimeter. The 88CP9 is a 200Amp AC Clamp-on Adapter using the voltage output of the adapter and the standard meter inputs of a multimeter. It can also be used with power harmonics, oscilloscopes, or other voltage measurement devices.

Using the Amp Klamp Safely

Warning

To prevent electric shock, fire and personal injury, carefully read all safety information before attempting to operate the current Clamp and follow these procedures.

- Do not use the clamp on circuits rated higher than 600V in Installation Category II. Use caution when clamping around un-insulated conductors or bus bars.
- Do not use a Klamp that is cracked, damaged, or has a defective cable. Such Klamps should be made inoperative by taping the Klamp shut to prevent operation and disposed of.
- Check the magnetic mating surfaces of the Klamp jaws; these should be free of dust, dirt, rust, and other foreign matter.
- Keep your fingers off the Klamp jaws.
- Keep your fingers behind the safety barrier as shown in **Figure 1**.

General Specifications:

Output Impedance	<1k Ω
AC Bandwidth	40 to 400Hz
Jaw opening	½ inch or 16 mm
Operating conditions	32°F to 86°F (0°C to 30°C) 90%RH; 86°F to 104°F (30°C to 40°C) 75% RH; 104°F to 122°F (40°C to 50°C) 45% RH
Storage conditions	-22°F to 140°F (-30°C to 60°C); <90% Relative Humidity
Altitude	Operate at less than 9800 feet or 3000 meters
Weight	4.5 ounces
Dimensions	4.25" x 1.9" x 1.25" (H x W x D)
Standards	IEC1010-1 (1995); EN61010-1 (1995) Category II 600V, Category III 300V. CE

Range Specifications

Function	Range	Output	Sensitivity	Accuracy (of reading)
AC Current (50/60Hz)	0 to 200A	1mV/A	1A/mV AC	$\pm 2.0\% \pm 0.5A$

Using the Amp Klamp

To use the Amp Klamp, follow these instructions:

1. Connect the test leads of the Klamp probe to the terminals of the 88E Multimeter.
Insert the black test lead to "COM" terminal and the red test lead to "V/ Ω /Hz" terminal.
2. Turn the selector knob on the 88E multimeter to the mV (millivolt) range.
3. Hit to select AC push **SELECT** button on 88E.

4. Position the Klamp jaw perpendicular to and centered around the conductor to be measured.
5. Read the measured value from the 88E LCD display.

Example for using multimeter with the CP09 AC Current Clamp-on Adapter

Current Clamp Sensitivity = 1mV/A. Multimeter displays 100.0mV.

Actual current – display value / sensitivity Current Clamp = 100.0mV/1mV/A=100.0A

EXAMPLE:

When measuring AC current to transformer in a 24Vac circuit, multimeter reads 0.03 mV, actual reading is 0.03 Amps.

When measuring input to typical small powerburner PSC motor, multimeter reads 1.30 mV, actual reading is 1.3 amps.



Figure 1

Description of Amp Klamp 88CP9

1. Current sensing jaw.
2. Klamp trigger (to open).
3. Safety barrier.
4. Voltage output lead.

Safety Information



This symbol, adjacent to another symbol or terminal, indicates the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present



This symbol denotes Double Insulation