

200A AC Current Clamp-on MultiMeter Adaptor Model CA200

Introduction

Congratulations on your purchase of the Extech CA200 200 Amp AC Clamp-On MultiMeter Adaptor. With this clamp adaptor, an AC current can be safely measured by simply clamping around a single conductor. The adaptor outputs an AC mV signal that is proportional to the measured AC current. The DMM mV reading is equivalent to the value of the AC current. Careful use of this device will provide years of reliable service.

Specifications

Sensor type	Induction coil
Measurement Range	0 to 200 Amps AC
Adaptor Output	1mV AC output to DMM per 1A AC measurement
Frequency range	50/60Hz
Standards	CAT II 600V, CAT III 300V CE
Max output impedance	<1k Ω
Accuracy	$\pm (2.0\% + 0.5A) + (\text{accuracy of indicating device})$
Temperature coefficient	0.1 times the specified accuracy/ 1 $^{\circ}$ C (< 18 $^{\circ}$ C or > 28 $^{\circ}$ C)
Jaw size	0.62" (16mm)
Operating Conditions	(0 to 30 $^{\circ}$ C) 32 to 86 $^{\circ}$ F, < 90% RH (30 to 40 $^{\circ}$ C) 86 to 104 $^{\circ}$ F, <75% RH (40 to 50 $^{\circ}$ C) 104 to 122 $^{\circ}$ F, <45% RH
Dimensions/Weight	4.3 x 1.9 x 1.3" (111 x 50 x 33mm); 4.5 oz. (129g)

NOTE: Accuracy is specified for a period of one year for ambient conditions 18 $^{\circ}$ C to 28 $^{\circ}$ C (64 $^{\circ}$ F to 84 $^{\circ}$ F), < 80% RH.

Safety

Safety Symbols



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

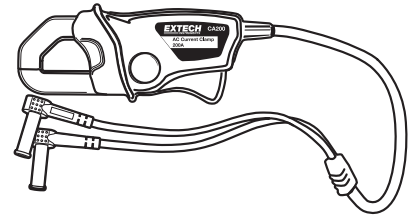


This symbol indicates that double insulation is used.

WARNING: This indicates that a potentially hazardous condition which, if not avoided, could result in death or serious injury.

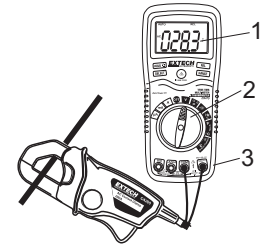
Safety Precautions

- WARNING:** Improper use of this meter can cause damage, shock, injury or death. Read and understand this manual before operating the meter.
- Inspect the condition of the test leads and the meter itself for any damage before operating the meter. Repair or replace any damage before use.
- Do not use on non-insulated conductors at voltages greater than 250VAC rms or DC.



AC Current Measurements

- Set the DMM to the **AC mV** range or to a low AC voltage range.
- Connect the RED test lead to the DMM '+' Voltage terminal and the BLACK lead to the '-' COM terminal.
- Press the Jaw Trigger to open the jaw and clamp around a single conductor.
- Read the current on the DMM display (1mV AC per 1A of AC current).

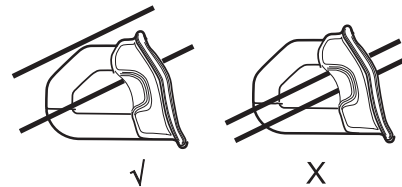


- Read mV
- Set to ACV
- Voltage Input

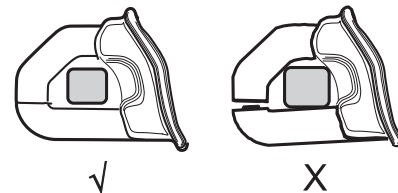
Note: Do not apply voltage to the clamp adaptor's test leads

Note: For small currents, use the RELATIVE function (if available) on the DMM with no wire clamped to zero the meter and improve accuracy.

Note: Clamp a single conductor only, do not clamp hot and neutral simultaneously.



Note: The clamp jaws must be fully closed for proper measurements. On large conductors or line splitters, make sure there is no gap between the upper and lower jaw.



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