



**INSTRUCTION MANUAL**

**CA30**

**Clamp-On Adapter**



**1-800-547-5740 • Fax: (503) 643-6322**  
**www.ueiautomotive.com • email: info@ueitest.com**

## Introduction

The CA30 Clamp-On Adapter is designed to measure AC and DC current. It can be used with most digital multimeters having a 200mV and 2V AC/DC or 400mV AC/DC range.

### Features include

- Measure 0-40 amps and 0-400 amos AC or DC
- Low battery indication
- DC amp zero adjust knob

## Specifications

Measuring Ranges	
AC Amps	0-40A on 200mV or 400mV AC range
DC Amps	0-400A on 2V or 400mV AC range
Output	
AC Amps	1mV AC per 1A AC
DC Amps	1mV DC per 1A DC
Accuracy	
40A	±(1.5% of reading +2 least significant digits)
400A	±(1.5% of reading +4 least significant digits)
Operating Temperature	
+32°F to 122°F (0°C to 50°C)	

## Measuring AC Current

1. Observing the polarity markings on the CA30 connector, plug the test lead into the input jacks on your digital multimeter. The "-" on the CA30 connector plugs into the "COM" jack and the "+" plugs into the "V/Ω" jack on your multimeter.
2. Set your digital multimeter to one of the following ranges:
  - 200mV AC for measuring 0 to 40ACA
  - 2V AC for measuring 0 to 400ACA
  - 400mV AC for measuring 0 to 40 or 0 to 400ACA
3. Clamp the jaw of the CA30 around a single current carrying wire.

**NOTE:** Clamp around only one wire at a time. If the CA30 is clamped around two or more wires, it will not work properly.

4. Take the reading directly from the digital multimeter's display.

**NOTE:** 1mV = 1A

## Measuring DC Current

1. Observing the polarity markings on the CA30 connector, plug the test lead into the input jacks on your digital multimeter. The "-" on the CA30 connector plugs into the "COM" jack and the "+" plugs into the "V/W" jack on your multimeter.
2. Set your digital multimeter to one of the following ranges:
  - 200mV DC for measuring 0 to 40DCA
  - 2V DC for measuring 0 to 400DCA
  - 400mV DC for measuring 0 to 40 or 0 to 400DCA
3. Turn the CA30 to the 40 or 400 range. Turn the zero adjust knob on the CA30 until the display on the multimeter reads zero.
4. Clamp the jaw of the CA30 around a single current wire.

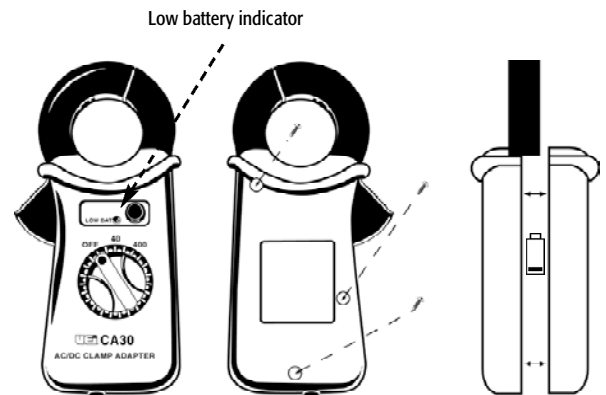
**NOTE:** Clamp around only one wire at a time. If the CA30 is clamped around two or more wires, it will not work properly.

5. Take the reading directly from the digital multimeter's display.

**NOTE:** 1mV = 1A

## Low Battery Indication

When the low battery indicator illuminates, replace the battery as soon as possible. A low battery can adversely affect readings.



## Low Battery Indication

1. Low or dead battery
2. Digital multimeter is not set on the correct range
3. Test lead is plugged into the correct input jacks on the multimeter



# CA30

## Clamp-On Adapter

### Limited Warranty

The CA30 is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

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This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

