# AC Current Sensors

## Models CS10, CS15

Campbell Scientific's CS10 and CS15 detect and measure the ac current along an electrical wire using the magnetic field that is generated by that current. The sensor is external to the wire jacket and has no direct electrical connection to the system. The sensors output a millivolt signal allowing them to be directly connected to our dataloggers.

Our CS10 uses CR Magnetic's CR8459 Current Transformer to measure the approximate current over a range of 0 to 200 Amps. The CS15 is a version of the CS10 optimized for use with the CR200-series dataloggers. It measures current in a monitored electrical circuit from 0 to 125 Amps.

Both the CS10 and CS15 are recommended for measurements that do not require high accuracy. Ideal applications include motor or generator load conditions, efficiency studies, intermittent fault detection, and rough submetering.

## Ordering Information

CS10-L CR Magnetics Current Transformer with user-specified lead length. Enter lead length, in feet, after the-L. Recommended length is 5 ft (1.6 m).

CS15-L CR Magnetics Current Transformer for CR200- series. Enter lead length, in feet, after the-L. Recommended length is 5 ft (1.6 m).

## Specifications


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|---|---|
| Measurement Range | |
| CS10: | 0 to 200 A |
| CS15: | 0 to 125 A |
| Frequency: | 50 and 60 Hz |
| Insulation Resistance: | 100 M ohm @ 500 Vdc |
| High Potential: | 2000 V |
| Rated Current | |
| CS10: | 200 A |
| CS15: | 125 A |
| Operating Temperature: | -25° to +55°C |
| Case Material: | Polypropylene resin |
| Construction: | Epoxy encapsulated |
| Accuracy w/10 ohm burden max. (resistive): | typically ±5% of actual value with provided multiplier |

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