

# CS10 and CS15

## AC Current Sensors

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.

The CS10 is compatible with our CR800, CR850, CR1000, CR3000, CR510, CR10(X), and CR23X dataloggers. It uses CR Magnetic's CR8459 Current Transformer to measure the approximate current over a range of 0.15 A to 200 A.

The CS15 was developed specifically for our CR200-series dataloggers. It is a modified version of the CS10 that measures the approximate current over a range of 0.15 A to 125 A.

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

Model	Description
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. Has user-specified lead length. Enter lead length, in feet, after the-L. Recommended length is 5 ft (1.6 m).
-PW	Optional connector for pre-wired enclosures.



### Specifications

#### Measurement Range

CS10: 0.15 to 200 A

CS15: 0.15 to 125 A

**Frequency:** 50 Hz 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  $\pm 5\%$  of actual value with provided multiplier

