





#### Overview

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 sensors output a millivolt signal allowing them to be directly connected to our dataloggers.

### **Benefits and Features**

- Ideal applications include motor or generator load conditions, efficiency studies, intermittent fault detection, and rough submetering
- Sensor is external to the wire jacket and has no direct electrical connection to the system

# **Ordering Information**

#### **AC Current Sensors**

**CS10-L** CR Magnetics Current Transformer with a user-specified cable length; enter the cable length (in feet) after the -L. Recommended cable length is 5 ft (1.6 m). Must choose a cable termination option (see below).

**CS15-L** CR Magnetics Current Transformer for CR200(X)-Series Dataloggers. Enter the cable length (in feet) after the -L. Recommended cable length is 5 ft (1.6 m). Must choose a cable termination option (see below).

#### **Cable Termination Options (choose one)**

- -PT Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
- **-PW** Cable terminates in connector for attachment to a prewired enclosure.

### **Model Descriptions**

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 CR200X-series and 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.

## **Specifications**

- Measurement Range CS10: 0.15 to 200 A CS15: 0.15 to 125 A
- Frequency: 50 and 60 Hz
- Insulation Resistance: 100 MΩ @ 500 Vdc
- High Potential: 2000 V
- Rated Current CS10: 200 A CS15: 125 A
- Accuracy with 10  $\Omega$  Maximum Burden (resistive): typically  $\pm 5\%$  of actual value with provided multiplier
- ▶ Operating Temperature Range: -25° to +55°
- Case Material: Polypropylene resin
- Construction: Epoxy encapsulated
- Outer Diameter: 4.8 cm (1.89 in)
- Inner Diameter: 1.9 cm (0.75 in)
- **)** Height: 1.7 cm (0.67 in)







