



Low Cost Current Sensor

The **CR9500 Current Sensors** are low cost, self powered, AC current sensors that are calibrated to output 0-5 VDC when zero to full scale AC current flows through the window.

Ideal for those applications that require medium to large numbers of current level inputs to computers, PLCs, and displays. Care must be taken to choose high impedance input devices to insure linearity and accuracy due to the self-powered nature of the sensor.

Installation is a simple matter of running the current carrying conductor through the window, and clamping the sensor firm in place with a plastic wire tie (included). Wire leads can be connected through user supplied connectors or crimp style terminals.



CR9521

CR9550

CR9580

Specifications *

Accuracy: ± .5% Full Scale (FS)

Ripple:
1% Max

Signal Out:
0-5 Vdc

Output Load:
1.0 Megohm or greater for rated accuracy

Response Time:
250 ms. max. 10-90% FS

Calibration:
Average Sensing, RMS Calibrated

Max. Signal Out:
12 Vdc

Frequency: *
50 to 400 Hz

Insulation Class:
600 V

Operating Temperature:
-30 °C to +60 °C

Storage Temperature:
-55 °C to +85 °C

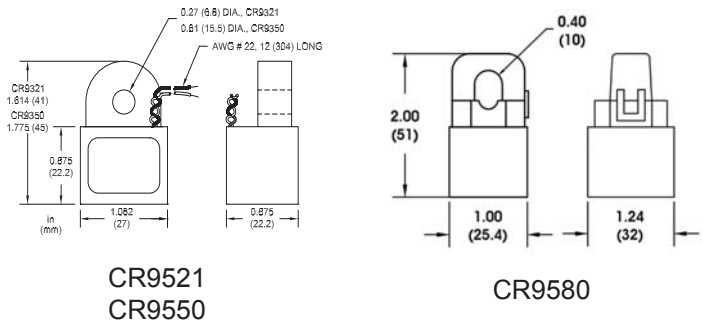
Shipping Weight:
.1 pounds (.05 Kg.)

* All specifications for operation at 60 Hz

Features

- Low cost
- Output overload protected
- Fully isolated
- Reverse output polarity protected
- Self-powered, requires no external power source
- 3 different ranges

Outline Drawings



Part Number

CR□□□□ - □□ CURRENT SENSOR

- 10 - 0-10 Aac
- 20 - 0-20 Aac
- 50 - 0-50 Aac

- 9521 - .27 Dia. window
- 9550 - .61 Dia. window
- 9580 - .40 window Split Core

Electrical Connections

White lead: Positive output (+)
Black lead: Negative output (-)

Internet Resources <http://www.crmagnetics.com/>

- Application Sheet: pdf/ancr4310.pdf, pdf/ancr4310-2.pdf
- External Current Transformers: cts.html
- Transducer Selection Guide: transducer.html