



Loop-Powered AC Current Transmitter

DIN RAIL / PANEL MOUNT, AVERAGE SENSING

The **CR4200** Series, Current Transmitters produce a calibrated 4-20 mA DC signal that is proportional to the average RMS input AC current. Designed for multi-point current sensing, these devices provide excellent features in a high value package. The output signal is generated from a user supplied 24 Vdc power supply within the output current loop.



CR4220

One Element - .79" Window
0.5 to 50 Aac Range



CR4260

Two Element - .26" Window
0.5 to 30 Aac Range

Regulatory Agencies

- Approved to UL3111-1, First Edition, Amendment 2
- Approved to CAN/CSA-C22.2, No. 1010.1-92
- Meets requirement of IEC 61010-1 and BS EN 61010-1

Applications

- Multi-point current sensing and control panels
- Remote current sensing
- Monitor motor faults
- Monitor heating elements
- Monitor lighting elements

Features

- Relatively low cost
- 35mm DIN rail or panel mount
- High Accuracy
- Easy wiring
- Interfaces with most commercially available instrumentation
- Connection diagram printed on case

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

- Pricing: [pricing/4200.html](http://www.crmagnetics.com/pricing/4200.html)

See page 34 for typical applications

Part Numbers

CR4220 - Single element with 4 to 20 mA DC output
CR4260 - Two element with 4 to 20 mA DC output *

* Two element transducers are available only in ranges of 0.5 to 30 Aac

Add suffix for input range

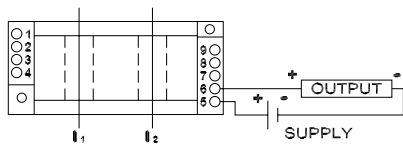
.5 - 0-.5 Aac *
5 - 0- 5 Aac *
10 - 0-10 Aac *
15 - 0-15 Aac *
20 - 0-20 Aac *
25 - 0-25 Aac *
30 - 0-30 Aac *
40 - 0-40 Aac
50 - 0-50 Aac
 Other Ranges Available

Loop-Powered AC Current Transmitter

Specifications

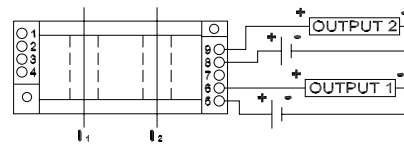
Basic Accuracy:.....	0.5%	Insulation Voltage:.....	2500 Vdc
Thermal Drift:.....	500 PPM/°C	Loop Voltage:.....	24 Vdc
Operating Temperature:.....	0°C to +60°C	Frequency Range:.....	20Hz- 4 KHz
Installation Catagory:.....	CAT II	Compliance Voltage:...	16 to 28 Vdc
Polution Degree:.....	2	Typical Load:.....	0 To 300 Ω @ 24 Vdc
MTBF:.....	Greater than 100 K hours	Cleaning:.....	Water-dampened cloth
Altitude:.....	2000 meter max.	Response Time:.....	250 ms max., 0-90% FS
Response Time:.....	250 ms max., 0-90% FS	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Calibration:.....	Average Sensing, RMS Calibrated		

Connection Drawings



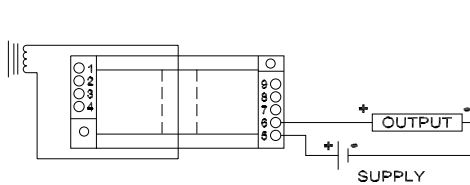
CR4220

One Element - 4 - 20 mA DC Output



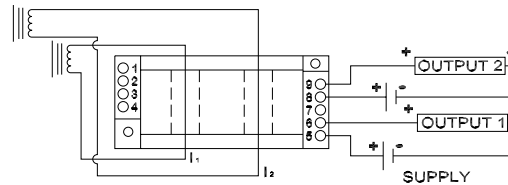
CR4260

Two Element 4 - 20 mA DC Output



CR4220

One Element with external current transformer *



CR4260

Two Element with external current transformer *

* REQUEST CR MAGNETICS LOW AND MEDIUM VOLTAGE CURRENT TRANSFORMER CATALOG

Note: The building installation must have a switch or circuit-breaker that is in close proximity and within easy reach of the operator. The switch or circuit breaker shall be marked as the disconnecting device for the equipment.

Outline Drawing

