

# Loop-Powered AC Current Transmitter

## DIN RAIL / PANEL MOUNT, AVERAGE RMS



CR4220

Single Element - .79" Window  
0.5 to 50 AAC Input Range



CR4260

Two Element - .26" Window  
0.5 to 30 AAC Input Range

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

### 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

### Regulatory Agencies

- Recognized to meet UL 61010B-1
- Constructed to meet CAN/CSA-C22.2, No. 61010-1-2004
- Meets requirement of IEC 61010-1 and BS EN 61010-1

C  
Transducers

CR Magnetics has a wide selection of current transformers to extend the range of any part. Contact factory for more information.



**E199795**



All single phase current transducers are available in split core design. Simply put an "S" at the end of the prefix\*

I.E. CR4220S-10

\* **Not UL Recognized**

### PART NUMBERS

|           |   |  |
|-----------|---|--|
| CR4220(S) | - | Single element with 4 - 20 mADC output (split core design) |
| CR4260    | - | Two element with 4 - 20 mADC output*                       |

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

Add suffix for input range

- 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

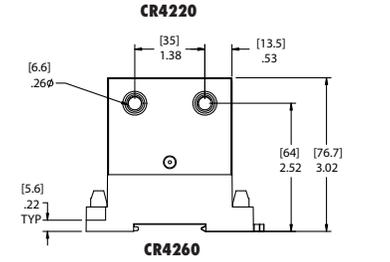
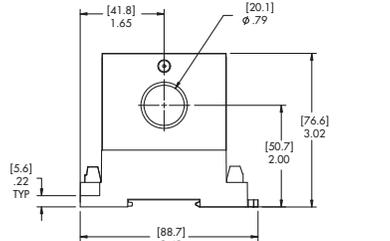
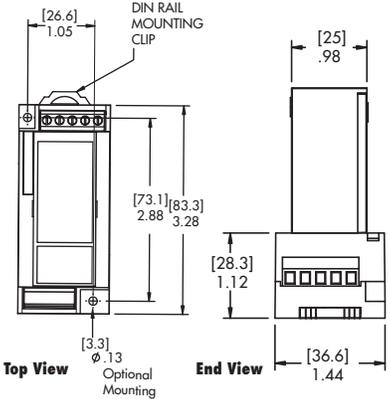
Ranges available up to and including 600 AAC

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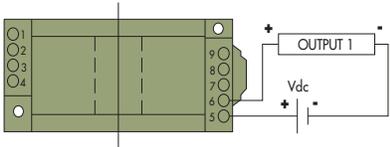
DIN RAIL / PANEL MOUNT, AVERAGE RMS

## SPECIFICATIONS

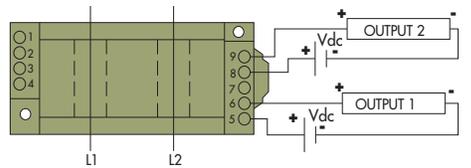
|                             |                                 |                          |                           |
|-----------------------------|---------------------------------|--------------------------|---------------------------|
| Basic Accuracy:.....        | 0.5%                            | MTBF:.....               | Greater than 100 K        |
| Linearity:.....             | 10% to 100% FS                  | HoursCleaning:.....      | Water-dampened cloth      |
| Thermal Drift:.....         | 500 PPM/°C                      | Output Load:.....        | 0 to 300 Ω                |
| Operating Temperature:..... | 0°C to +60°C                    | Response Time:.....      | 250 ms max., 0-90%FS      |
| Installation Category:..... | CAT II                          | Relative Humidity:.....  | 5% to 95%, Non-Condensing |
| Vibration Tested To:.....   | IEC 60068-2-6,1995              | Supply Power:.....       | Loop Voltage 24 Vdc       |
| Pollution Degree:.....      | 2                               | Compliance Voltage:..... | 16 to 28 Vdc              |
| Insulation Voltage:.....    | 2500 VDC                        | Torque Specs:.....       | 3.0 inch lbs. (0.4Nm)     |
| Altitude:.....              | 2000 meter max.                 | Weight:.....             | 0.5 lbs.                  |
| Frequency Range:.....       | 50Hz - 400 Hz                   |                          |                           |
| Calibration:.....           | Average Sensing, RMS Calibrated |                          |                           |



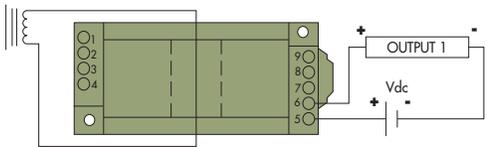
## OUTLINE DRAWING



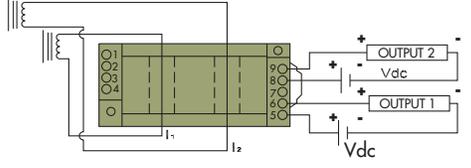
**CR4220**  
One Element - 4 - 20 mADC Output



**CR4260**  
Two Element 4 - 20 mADC Output



**CR4220**  
One Element with external  
current transformer \*



**CR4260**  
Two Element with external  
current transformer \*

\*Request CR Magnetics Low & Medium Voltage Current Transformers Catalog.

## CONNECTION DIAGRAM

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.



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Transducers