Loop-Powered AC Current Transmitter

DIN RAIL / PANEL MOUNT, AVERAGE RMS

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

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

### PART NUMBERS

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<thead>
<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>CR4220(S)</td>
<td>Single element with 4 - 20 mADC output (split core design)</td>
</tr>
<tr>
<td>CR4260</td>
<td>Two element with 4 - 20 mADC output*</td>
</tr>
</tbody>
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*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

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

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**SPECIFICATIONS**

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

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.

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

**CONNECTION DIAGRAM**

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 *

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