

Loop-Powered AC Current Transmitter

DIN RAIL / PANEL MOUNT, AVERAGE RMS



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



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 high 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.



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

Loop-Powered AC Current Transmitter

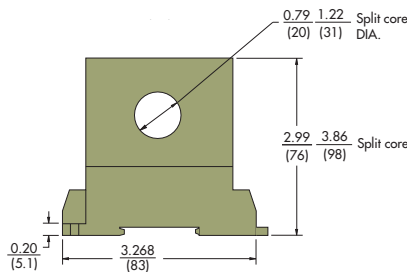
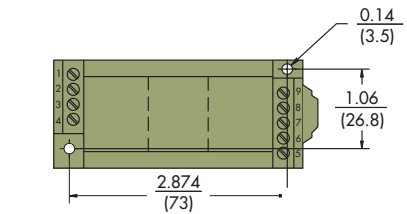
DIN RAIL / PANEL MOUNT, AVERAGE RMS

SPECIFICATIONS

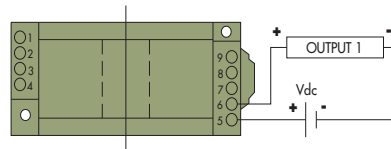
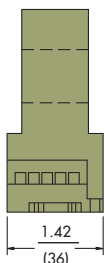
Basic Accuracy:.....	0.5%	MTBF:.....	Greater than 100 K
Linearity:.....	10% to 100% FS	HoursCleaning:.....	Water-dampened cloth
Thermal Drift:.....	500 PPM/°C	Output Load:.....	0 to 300 Ω
Operating Temperature:.....	0°C to +60°C	Response Time:.....	250 ms max., 0-90%FS
Installation Category:.....	CAT II	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Vibration Tested To:.....	IEC 60068-2-6, 1995		
Pollution Degree:.....	2		
Insulation Voltage:.....	2500 VDC	Supply Power:.....	Loop Voltage 24 Vdc
Altitude:.....	2000 meter max.	Compliance Voltage:.....	16 to 28 Vdc
Frequency Range:.....	20Hz - 4KHz	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Calibration:.....	Average Sensing, RMS Calibrated	Weight:.....	0.5 lbs.

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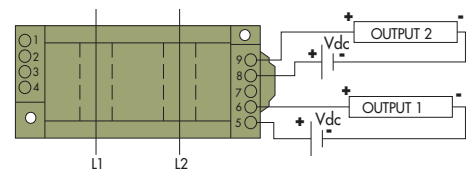
Transducers



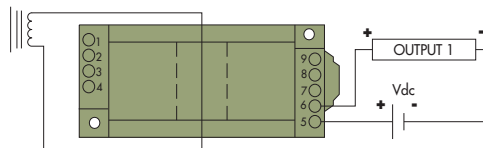
1 hole: 0.79(20) Dia. for CR4220 (shown)
2 holes: 0.26(6.5) Dia. for CR4260



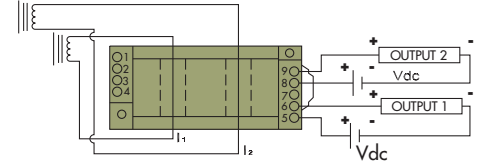
CR4220
One Element - 4 - 20 mADC Output



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.

OUTLINE DRAWING

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.