



# Average RMS AC Current Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS

The CR4400 Series, Average RMS Voltage Transducers and Transmitters are designed to provide a DC output proportional to the AC current input. These devices are best suited for general applications, such as fixed frequency voltage supplies.

## Applications

- Phase fired controlled heaters
- Quickly varying motor loads
- Chopped wave form drivers
- Harmonic currents

## Features

- 35mm DIN Rail or Panel Mount
- Available with 0 - 5 Vdc or 4 - 20 mA DC outputs
- 24 Vdc powered
- Use with external current transformers
- Connection diagram printed on case

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



**CR4410 CR4420**  
One Element - .79" Window  
0.5 to 150 Aac Range



**CR4450 CR4460**  
Two Element - .26" Window  
0.5 to 30 Aac Range



**CR4470 CR4480**  
Three Element .26" window  
0.5 to 30 Aac Range

## Part Numbers

- CR4410** -  Single element with 0 - 5 Vdc output
- CR4420** -  Single element with 4 - 20 mA DC output
- CR4450** -  Two element with 0 - 5 Vdc output \*
- CR4460** -  Two element with 4 to 20 mA DC output \*
- CR4470** -  Three element with 0 - 5 Vdc output \*
- CR4480** -  Three element with 4 - 20 mA DC output \*

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

Add suffix for input range

- |                        |                        |
|------------------------|------------------------|
| <b>.5</b> - 0-.5 Aac * | <b>40</b> - 0-40 Aac   |
| <b>5</b> - 0- 5 Aac *  | <b>50</b> - 0-50 Aac   |
| <b>10</b> - 0-10 Aac * | <b>75</b> - 0-75 Aac   |
| <b>15</b> - 0-15 Aac * | <b>100</b> - 0-100 Aac |
| <b>20</b> - 0-20 Aac * | <b>150</b> - 0-150 Aac |
| <b>25</b> - 0-25 Aac * |                        |
| <b>30</b> - 0-30 Aac * |                        |

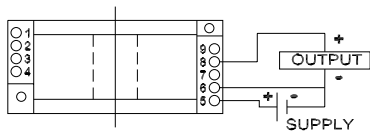
Other Ranges Available

# True RMS AC Current Transducer

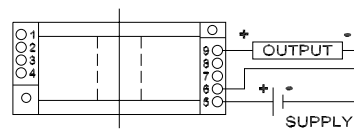
## Specifications

Basic Accuracy:.....	0.5%	Frequency Range:.....	20 Hz - 4 KHz
Calibration:.....	Ave. RMS Sensing	MTBF:.....	Greater than 100 K hours
Thermal Drift:.....	500 PPM/°C	Cleaning:.....	Water-dampened cloth
Operating Temperature:.....	0°C to +60°C	Supply Voltage:.....	24 Vdc ±10%
Installation Category:.....	CAT II	Output Load:.....	4-20 mA dc - 0 to 300 Ω
Pollution Degree:.....	2		0-5 Vdc - 2K Ω or Greater
Insulation Voltage:.....	2500 Vdc	Response Time:.....	250 ms max. 0-90% FS
Altitude:.....	2000 meter max.	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C

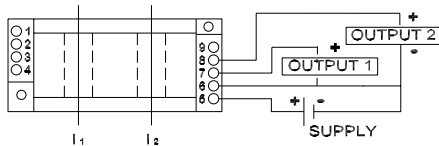
## Connection Drawings



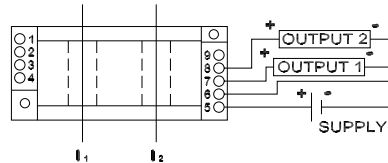
**CR4410** One Element 0 - 5 Vdc Output



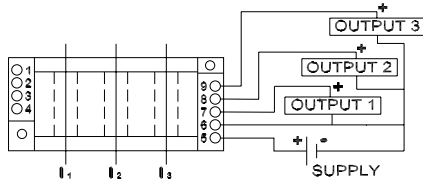
**CR4420** One Element 4 - 20 mA DC Output



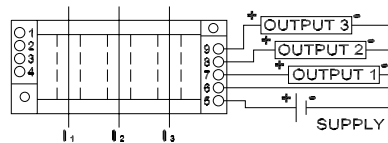
**CR4450** Two Element 0 - 5 Vdc Output



**CR4460** Two Element 4 - 20 mA DC Output



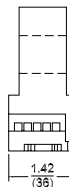
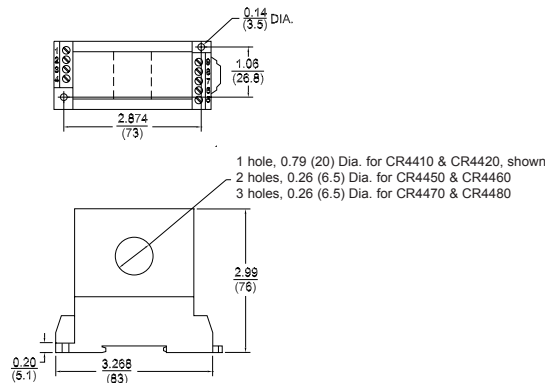
**CR4470** Three Element 0 - 5 Vdc Output



**CR4480** Three Element 4 - 20 mA DC Output

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



inch (mm)