

## DIN RAIL / PANEL MOUNT, ACTIVE / REACTIVE



CR Magnetics has a wide selection of Current and Potential Transformers to extend the range of any part.

The **CR6200** Series, Power Transducers and Transmitters are designed to provide a controlled output that is proportional to the average power. These devices are specifically targeted to provide an efficient solution to most power sensing needs. Units are designed for operation in systems with sinusoidal voltage and current wave forms.

### Applications

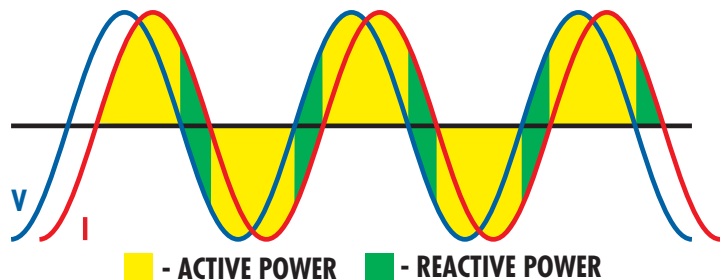
Energy Management  
Motor Efficiency  
Multi-point power sensing  
Remote power sensing over long distances

### Features

35mm DIN Rail or Panel Mount  
Ranges available for any power sensing need  
Active and Reactive power sensing  
0 - 5 VDC and 4 - 20 mADC outputs  
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



POWER TRANSDUCERS CAN BE ORDERED  
TO MEASURE ACTIVE OR REACTIVE POWER

## DIN RAIL / PANEL MOUNT, ACTIVE / REACTIVE

Add suffix for input range

| PART NUMBERS |   |   |   |   |                                                         |
|--------------|---|---|---|---|---------------------------------------------------------|
| CR6210       | - | - | - | - | 1 Phase, Active Power with 0 - 5 VDC Output             |
| CR6211       | - | - | - | - | 1 Phase, Reactive Power with 0 - 5 VDC Output           |
| CR6220       | - | - | - | - | 1 Phase, Active Power with 4 - 20 mADC Output           |
| CR6221       | - | - | - | - | 1 Phase, Reactive Power with 4 - 20 mADC Output         |
| CR6230       | - | - | - | - | 3-Phase, 3-Wire, Active Power with 0 - 5 VDC Output     |
| CR6231       | - | - | - | - | 3-Phase, 3-Wire, Reactive Power with 0 - 5 VDC Output   |
| CR6240       | - | - | - | - | 3-Phase, 3-Wire, Active Power with 4 - 20 mADC Output   |
| CR6241       | - | - | - | - | 3-Phase, 3-Wire, Reactive Power with 4 - 20 mADC Output |
| CR6250       | - | - | - | - | 3-Phase, 4-Wire, Active Power with 0 - 5 VDC Output     |
| CR6251       | - | - | - | - | 3-Phase, 4-Wire, Reactive Power with 0 - 5 VDC Output   |
| CR6260       | - | - | - | - | 3-Phase, 4-Wire, Active Power with 4 - 20 mADC Output   |
| CR6261       | - | - | - | - | 3-Phase, 4-Wire, Reactive Power with 4 - 20 mADC Output |

150 - 0-150 VAC  
250 - 0-250 VAC  
500 - 0-500 VAC \*

Custom ranges available  
\* not UL recognized

5 - 0-5 AAC  
25 - 0-25 AAC

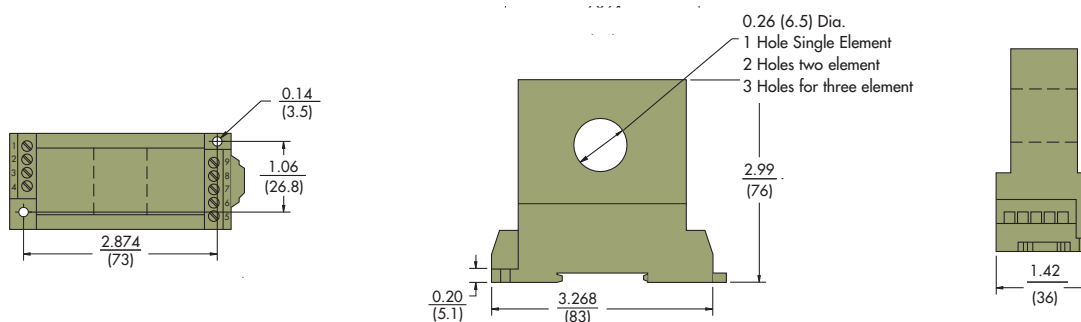
CR Magnetics has a wide selection of current and potential transformers to extend the range of any part.

## SPECIFICATIONS

Basic Accuracy:..... 0.5%  
Linearity:..... 10% to 100% FS  
Thermal Drift:..... 500 PPM/°C  
Operating Temperature:..... 0°C to +60°C  
Installation Category:..... CAT II  
Vibration Tested To:..... IEC 60068-2-6,1995  
Pollution Degree:..... 2  
Response Time: ..... 250 ms max. 0-90% FS  
Supply Voltage:..... 12 to 24 VDC  
MTBF:..... Greater than 100 K hours  
Frequency Range:..... 50 Hz - 400 Hz, sine wave  
Insulation Voltage:..... 2500 VDC  
Altitude:..... 2000 meter max. Output  
Load:..... 4-20 mADC -0 to 300 Ω  
0-5 VDC - 2K Ω or Greater

Cleaning:..... Water-dampened cloth  
Relative Humidity:.... 80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C

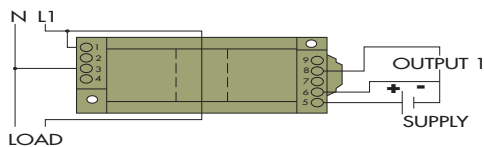
Supply Current:  
CR6210:..... Typical 35mA Max 45mA  
CR6220:..... Typical 75mA Max 110mA  
CR6230:..... Typical 50mA Max 70mA  
CR6240:..... Typical 75mA Max 110mA  
CR6250:..... Typical 50mA Max 70mA  
CR6260:..... Typical 75mA Max 120mA  
Torque Specs:..... 3.0 inch lbs. (0.4Nm)  
Weight:..... 0.5 lbs.



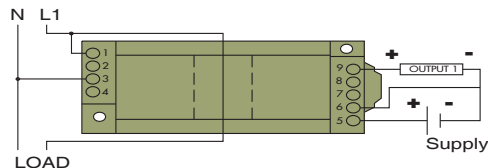
## OUTLINE DRAWING

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.

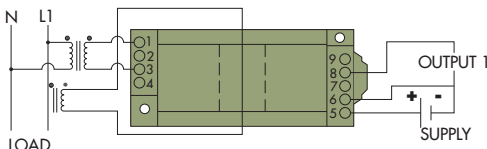
## DIN RAIL / PANEL MOUNT, AVERAGE SENSING



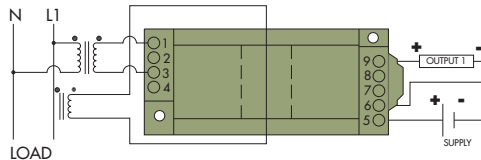
**CR6210 CR6211**  
Single element, 0 - 10 VDC Output



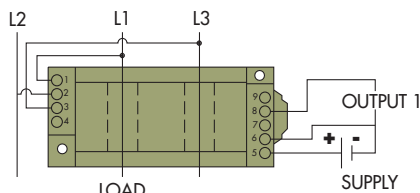
**CR6220 CR6221**  
Single element, 4 - 20 mADC Output



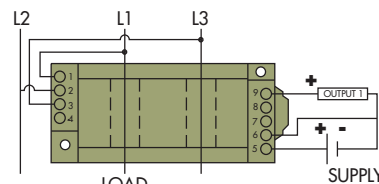
**CR6210 CR6211**  
Single element, 0 - 5 VDC Output  
with external voltage transformers



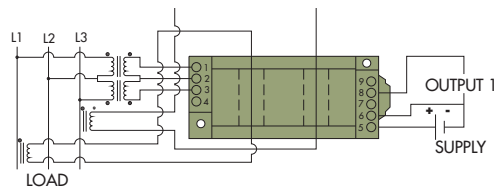
**CR6220 CR6221**  
Single element, 4 - 20 mADC Output  
with external voltage transformers



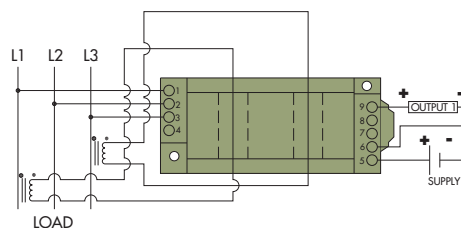
**CR6230 CR6231**  
3 element - 3 Wire, 0 - 5 VDC Output



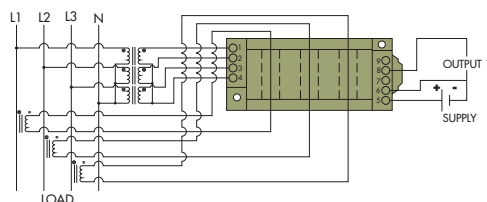
**CR6240 CR6241**  
3 element - 3 Wire, 4 - 20 mADC output



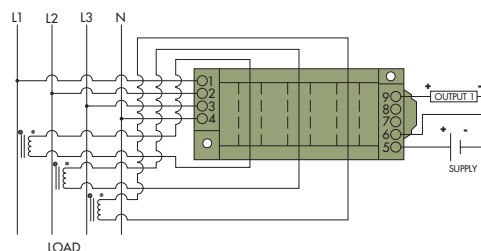
**CR6230 CR6231**  
3 element - 3 Wire, 0 - 5 VDC Output  
shown with external voltage and current transformers



**CR6240 CR6241**  
3 element - 3 Wire, 4 - 20 mADC Output  
shown with external current transformer



**CR6250 CR6251**  
3 element - 4 Wire, 0 - 5 VDC Output  
shown with external voltage and current transformers



**CR6260 CR6261**  
3 element - 4 Wire, 4 - 20 mADC Output  
shown with external current transformers

## CONNECTION DIAGRAMS