

# AC Power Transducer

## DIN RAIL / PANEL MOUNT, ACTIVE / REACTIVE



CR Magnetics has a wide selection of current and potential transformers to extend the range of any part. See Sections G & H for details.

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

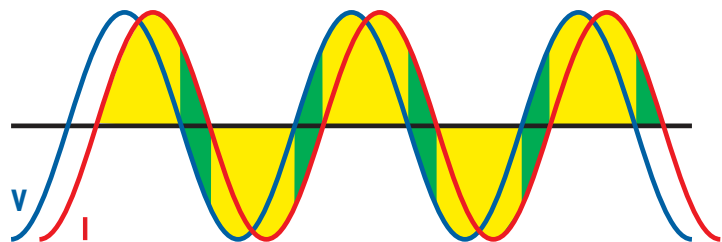
Energy Management  
Motor Efficiency  
Multi-point power sensing  
Remote power sensing over long distances

### 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 mA DC outputs  
Connection diagram printed on case

### Regulatory Agencies

Approved to UL3111-1, First Edition, Amendment 2  
Approved to CAN/CSA-C22.2, No. 1010.1-92  
Meets requirement of IEC 61010-1 and BS EN 61010-1



■ - ACTIVE POWER ■ - REACTIVE POWER

POWER TRANSDUCERS CAN BE ORDERED  
TO MEASURE ACTIVE OR REACTIVE POWER



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C  
Transducers

## DIN RAIL / PANEL MOUNT, ACTIVE / REACTIVE

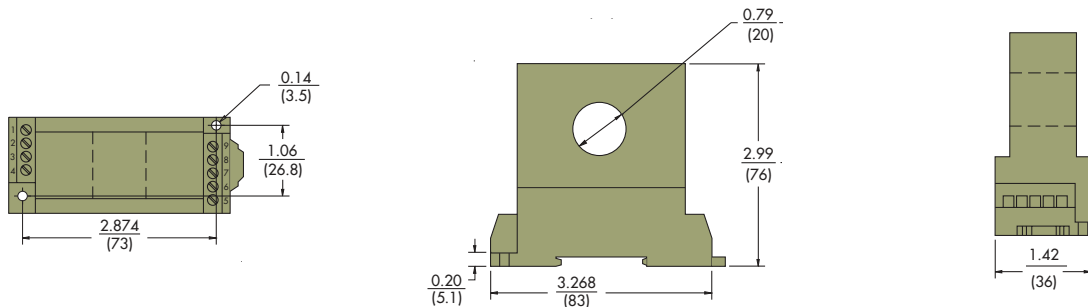
Add suffix for input range

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

<b>150</b>	-	0-150 VAC
<b>250</b>	-	0-250 VAC
<b>500</b>	-	0-500 VAC *
other ranges available		
* not UL recognized		
<b>5</b>	-	0-5 AAC
<b>20</b>	-	0-20 AAC
<b>50</b>	-	0-50 AAC

### SPECIFICATIONS

Basic Accuracy:.....	0.5%	Cleaning:.....	Water-dampened cloth
Thermal Drift:.....	500 PPM/°C	Relative Humidity:...	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Operating Temperature:.....	0°C to +60°C	Supply Current:	
Installation Category:.....	CAT II	CR6210:.....	Typical 35mA      Max 45mA
Pollution Degree:.....	2	CR6220:.....	Typical 75mA      Max 110mA
Response Time: .....	250 ms max. 0-90% FS	CR6230:.....	Typical 50mA      Max 70mA
Supply Voltage:.....	12 to 24 VDC	CR6240:.....	Typical 75mA      Max 110mA
MTBF:.....	Greater than 100 K hours	CR6250:.....	Typical 50mA      Max 70mA
Frequency Range:.....	50 Hz - 400 Hz, sine wave	CR6260:.....	Typical 75mA      Max 120mA
Insulation Voltage:.....	2500 VDC	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Altitude:.....	2000 meter max.	Weight:.....	0.5 lbs.
Output Load:.....	4-20 mADC -0 to 300 Ω 0-5 VDC - 2K Ω or Greater		



1 hole: 0.79(20) Dia. for CR6210, 6211, 6220 & 6221 (shown)  
 2 holes: 0.26(6.5) Dia. for CR6230, 6231, 6240, & 6241  
 3 holes: 0.26(6.5) Dia. for CR6250, 6251, 6260 & 6261

### 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.



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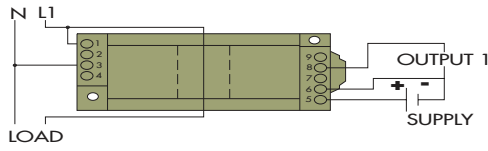
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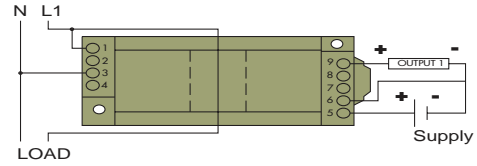
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# AC Power Transducer

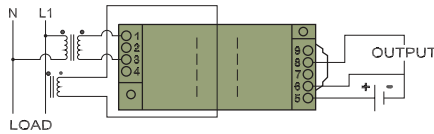
## DIN RAIL / PANEL MOUNT, AVERAGE SENSING



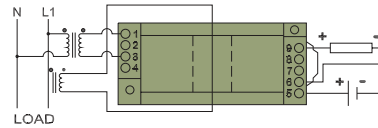
**CR6210 CR6211**  
Single element, 0 - 5 VDC Output



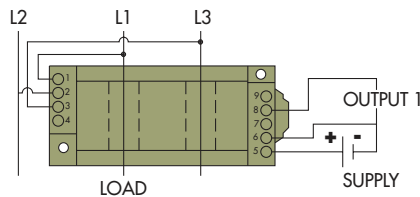
**CR6220 CR6221**  
Single element, 4 - 20 mADC Output



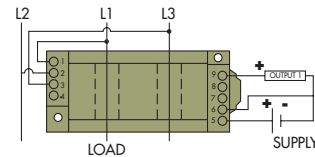
**CR6210 CR6211**  
Single element, 0 - 5 VDC Output  
with external voltage transformers



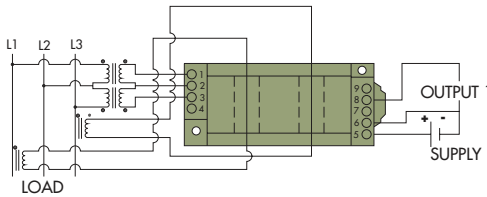
**CR6220 CR6221**  
Single element, 4 - 20 mADC Output  
with external voltage transformers



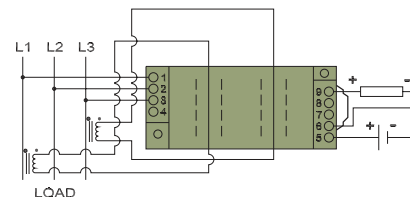
**CR6230 CR6231**  
3 element - 3 Wire, 0 - 5 VDC Output



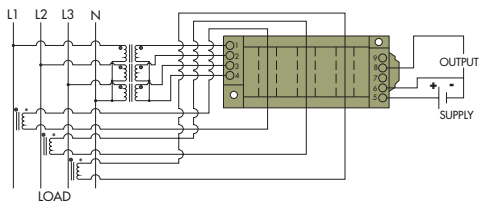
**CR6240 CR6241**  
3 element - 3 Wire, 4 - 20 mADC output



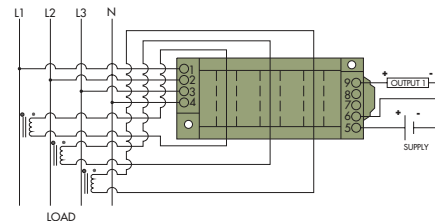
**CR6230 CR6231**  
3 element - 3 Wire, 0 - 5 VDC Output  
with external voltage and  
current transformers



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



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