

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

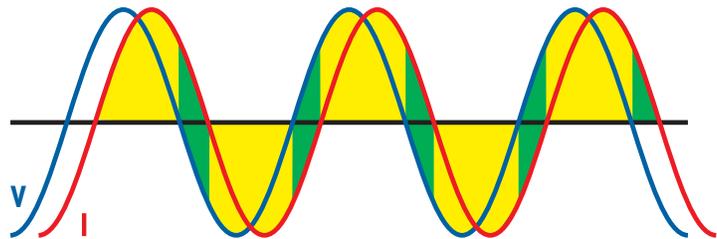
Energy Management
Motor Efficiency
Multi-point power sensing
Remote power sensing over long distances

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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Web: <http://www.crmagnetics.com>

C
Transducers

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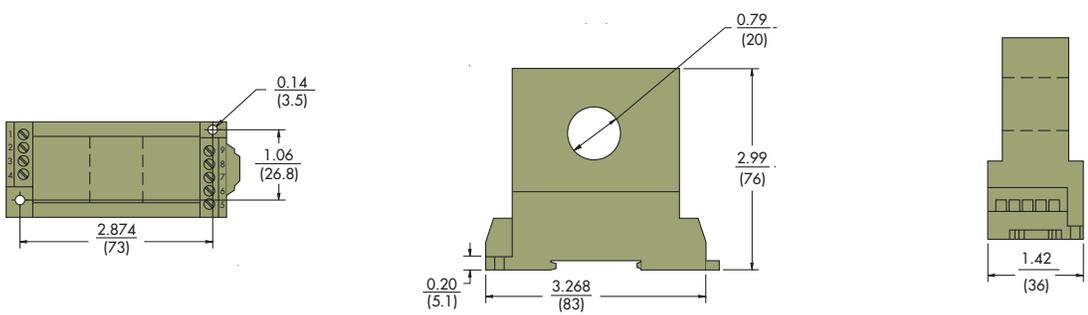
Add suffix for input range

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 *
other ranges available		
* not UL recognized		
5	-	0-5 AAC
20	-	0-20 AAC
50	-	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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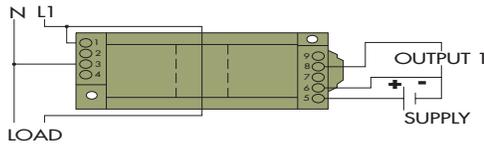
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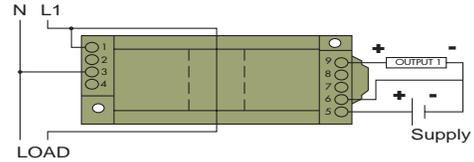
E-mail: sales@crmagnetics.com

AC Power Transducer

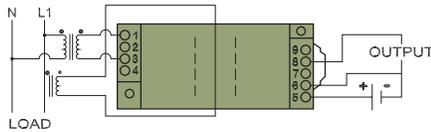
DIN RAIL / PANEL MOUNT, AVERAGE SENSING



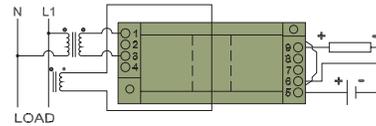
CR6210 CR6211
Single element, 0 - 5 VDC Output



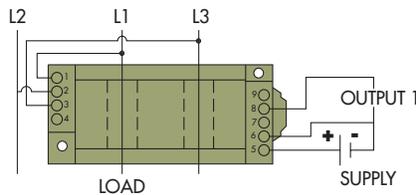
CR6220 CR6221
Single element, 4 - 20 mADC Output



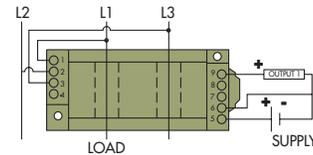
CR6210 CR6211
Single element, 0 - 5 VDC Output
with external voltage transformers



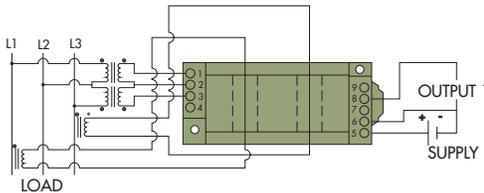
CR6220 CR6221
Single element, 4 - 20 mADC Output
with external voltage transformers



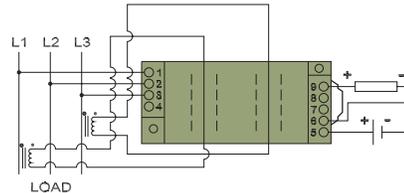
CR6230 CR6231
3 element - 3 Wire, 0 - 5 VDC Output



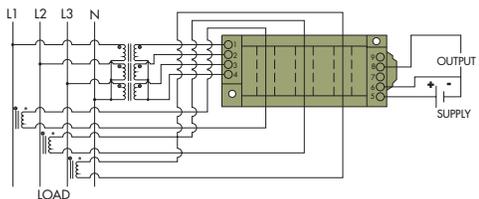
CR6240 CR6241
3 element - 3 Wire, 4 - 20 mADC output



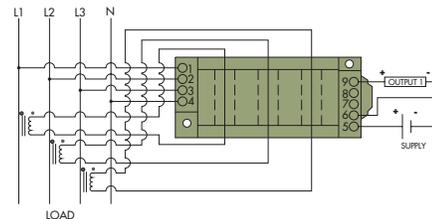
CR6230 CR6231
3 element - 3 Wire, 0 - 5 VDC Output
with external voltage and
current transformers



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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