



**THE DATASHEET OF
CR6250-250-5**



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.

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

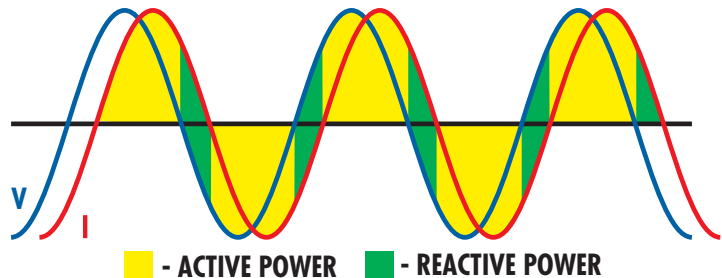
Energy Management
Motor Efficiency
Multi-point power sensing
Remote power sensing over long distances

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

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

AC Power Transducer

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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	-	-	-	2-Phase, 3-Wire, Active Power with 0 - 5 VDC Output
CR6231	-	-	-	2-Phase, 3-Wire, Reactive Power with 0 - 5 VDC Output
CR6240	-	-	-	2-Phase, 3-Wire, Active Power with 4 - 20 mADC Output
CR6241	-	-	-	2-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

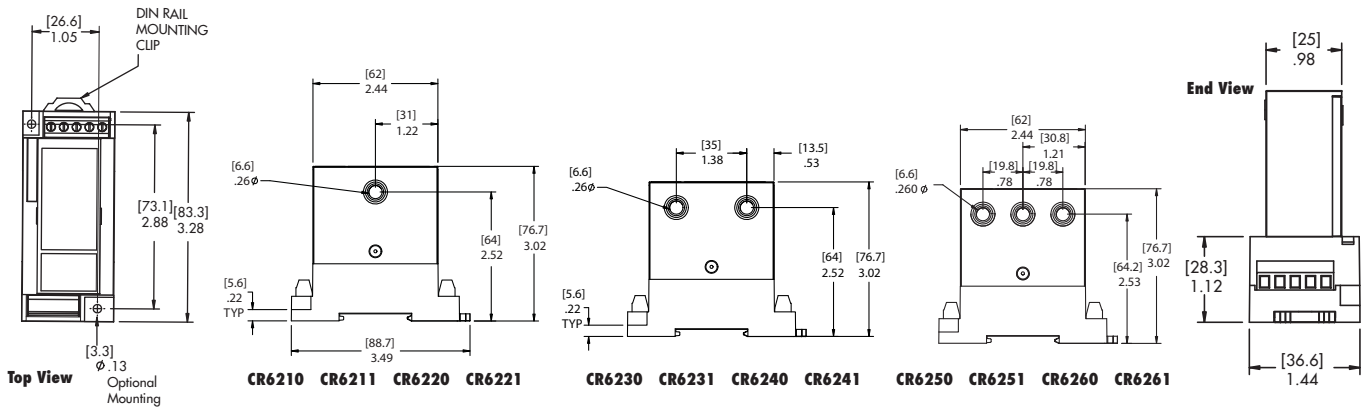
150	-	0-150 VAC
250	-	0-250 VAC
500	-	0-500 VAC *
Custom ranges available * not UL recognized		
5	-	0-5 AAC
25	-	0-25 AAC

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SPECIFICATIONS

Basic Accuracy:.....	0.5%	Cleaning:.....	Water-dampened cloth
Linearity:.....	10% to 100% FS	Relative Humidity:...	5% to 95%, Non-Condensing
Thermal Drift:.....	500 PPM/°C	Supply Current:	
Operating Temperature:.....	0°C to +60°C	CR6210:.....	Typical 35mA Max 45mA
Installation Category:.....	CAT II	CR6220:.....	Typical 75mA Max 110mA
Vibration Tested To:.....	IEC 60068-2-6,1995	CR6230:.....	Typical 50mA Max 70mA
Pollution Degree:.....	2	CR6240:.....	Typical 75mA Max 110mA
Response Time:.....	250 ms max. 0-90% FS	CR6250:.....	Typical 50mA Max 70mA
Supply Voltage:.....	24 VDC +/- 10%	CR6260:.....	Typical 75mA Max 120mA
MTBF:.....	Greater than 100 K hours	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Frequency Range:.....	50 Hz - 400 Hz, sine wave	Weight:.....	0.5 lbs.
Insulation Voltage:.....	2500 VDC		
Altitude:.....	2000 meter max. Output		
Load:.....	4-20 mADC -0 to 500 Ω 0-5 VDC - 2K Ω or Greater		

Transducers



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.



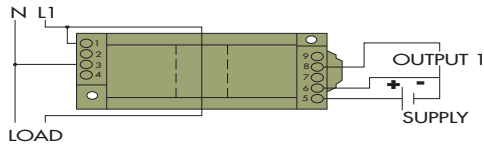
3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

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

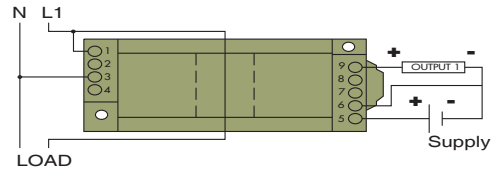
E-mail: sales@crmagnetics.com

AC Power Transducer

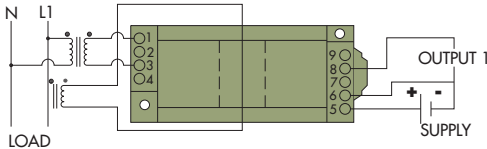
DIN RAIL / PANEL MOUNT, AVERAGE SENSING



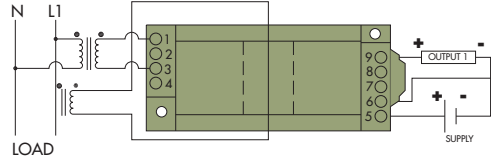
CR6210 CR6211
Single element, 0 - 5 VDC Output



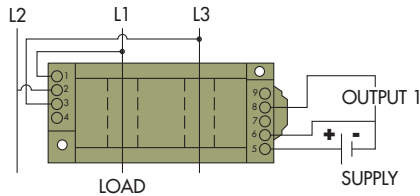
CR6220 CR6221
Single element, 4 - 20 mADC Output



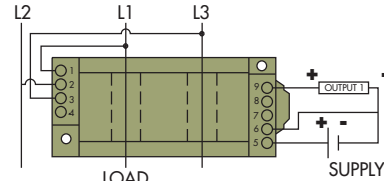
CR6210 CR6211
Single element, 0 - 5 VDC Output with external voltage transformers



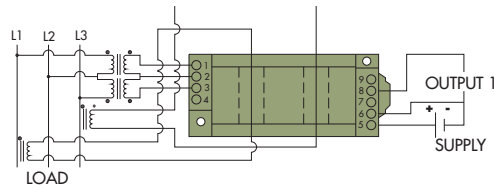
CR6220 CR6221
Single element, 4 - 20 mADC Output with external voltage transformers



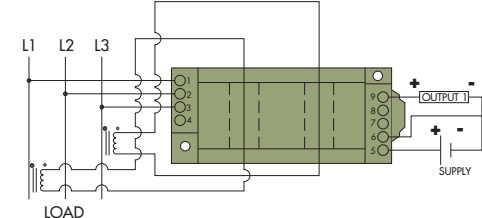
CR6230 CR6231
2 element - 3 Wire, 0 - 5 VDC Output



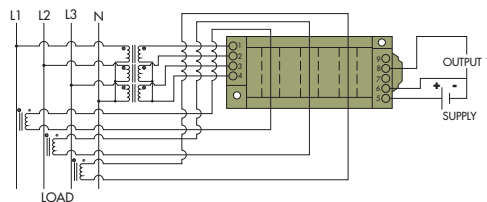
CR6240 CR6241
2 element - 3 Wire, 4 - 20 mADC output



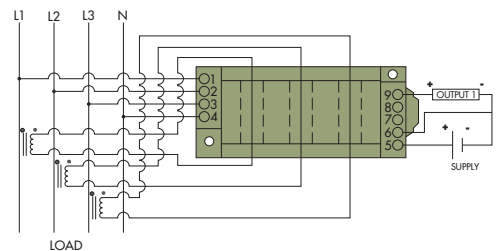
CR6230 CR6231
2 element - 3 Wire, 0 - 5 VDC Output shown with external voltage and current transformers



CR6240 CR6241
2 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

Transducers

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View CR6250-250-5 on WIN SOURCE](#)
-  [CR Magnetics Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management