

## DIN RAIL / PANEL MOUNT, AVERAGE SENSING



CR6310      CR6311      CR6320

Single Element  
0 - 5 VDC, 0 - 10 VDC,  
4 - 20 mADC Outputs

The **CR6300** Series, Power Factor Transducers, are designed to sense the Phase Angle difference between AC Current and Voltage signals.

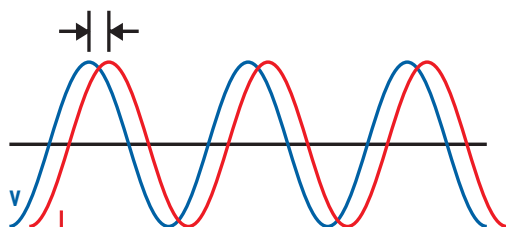
### Applications

Motor Loading  
Correct Power Factor  
Measure Timing

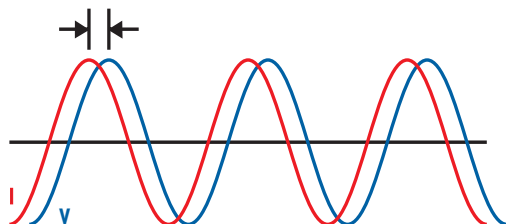
### Features

Bandwidth is 5 KHz  
Up to 500V Input on Voltage  
Up to 25A Input on Current  
Extend Ranges with External CT's & PT's  
Measure -90 to +90 Phase Difference  
0 - 5 VDC, 0 - 10 VDC or 4 - 20 mADC Outputs  
35mm DIN Rail or Panel Mount

### Regulatory Agencies



INDUCTIVE - CURRENT LAGGING VOLTAGE



CAPACITIVE - CURRENT LEADING VOLTAGE

Custom units can measure the phase angle difference between two AC Voltages or two AC currents are available. Contact factory for details.

### PART NUMBERS

<b>CR6310</b>	-		-		Single Element with 0 - 5 VDC Output
<b>CR6311</b>	-		-		Single Element with 0 - 10 VDC Output
<b>CR6320</b>	-		-		Single Element with 4 - 20 mADC Output

Add suffix for input range

**110** - 0-110 VAC  
**220** - 0-220 VAC  
**500** - 0-500 VAC \*  
other ranges available  
\* not UL recognized

**25** - 0-25 AAC  
other ranges available  
\* not UL recognized



Another HUNTINGTON ELECTRIC Company

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

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

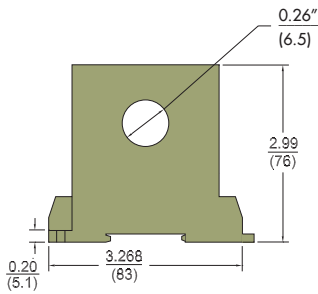
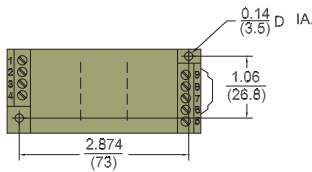
E-mail: [sales@crmagnetics.com](mailto:sales@crmagnetics.com)

# Power Factor Transducer

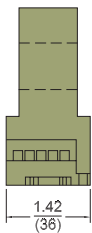
DIN RAIL / PANEL MOUNT, AVERAGE SENSING

## SPECIFICATIONS

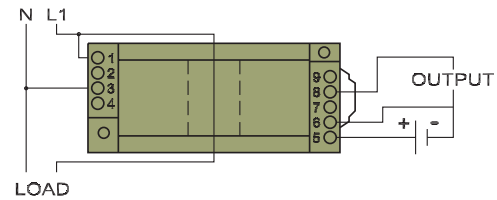
Basic Accuracy:.....	0.5%	Insulation Voltage:.....	2500 VDC
Thermal Drift:.....	500 PPM/°C	Altitude:.....	2000 meter max.
Operating Temperature:.....	0°C to +60°C	Output Load:.....	4-20 mADC -0 to 300 Ω
Installation Category:.....	CAT II		0-5 VDC - 2K Ω or Greater
Pollution Degree:.....	2	Cleaning:.....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



1 hole: 0.26(6.5) Dia. for CR6310, CR6311, CR6320 (shown)



## OUTLINE DRAWING

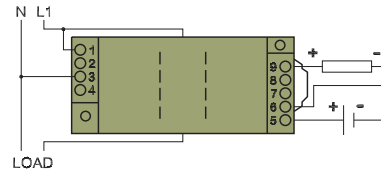


### CR6310

0 - 5 VDC Output

### CR6311

0 - 10 VDC Output



### CR6320

4 - 20 mADC Output

## CONNECTION DIAGRAM

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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Transducers