

Power Factor Transducer

DIN RAIL / PANEL MOUNT, AVERAGE SENSING



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

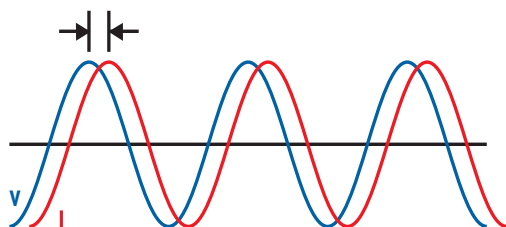
- Motor Loading
- Correct Power Factor
- Measure Timing

Features

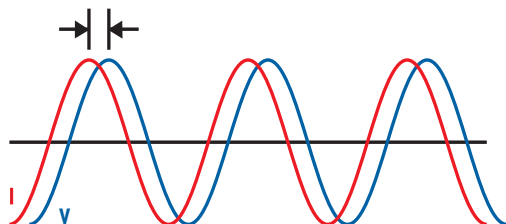
- Bandwidth is 5 KHz
- Up to 500V Input on Voltage
- Up to 25A Input on Current
- Extend Ranges with External CT's & PT's
- Measure -90 to +90 Phase Difference
- Available with 0-5 VDC, 0-10 VDC or 4-20 mADC Outputs
- 35mm DIN Rail or Panel Mount

Regulatory Agencies

- Constructed 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



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

CR6310	-		-		Single Element with 0 - 5 VDC Output
CR6311	-		-		Single Element with 0 - 10 VDC Output
CR6320	-		-		Single Element with 4 - 20 mADC Output

Add suffix for input range

- 110** - 0-110 VAC
 - 220** - 0-220 VAC
 - 500** - 0-500 VAC *
- Ranges available up to and including 600 VAC

25 | 0-25 AAC

Use a 5 amp CT to extend the range of this product line

Transducers

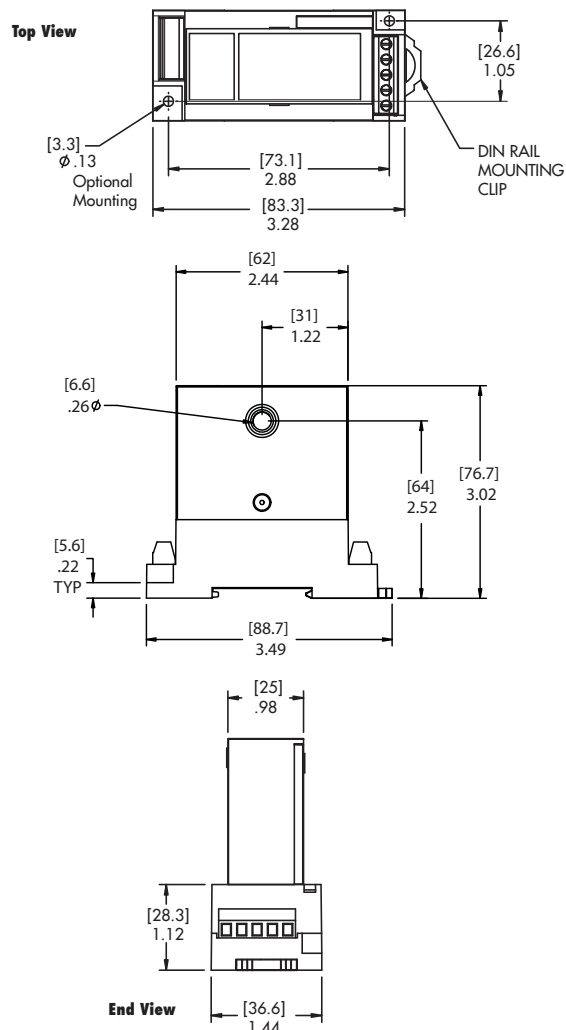
Power Factor Transducer

DIN RAIL / PANEL MOUNT, AVERAGE SENSING

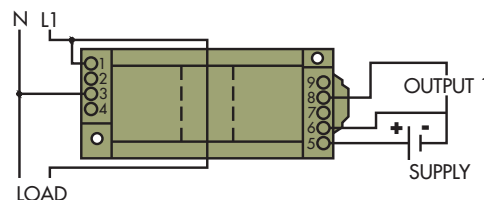
SPECIFICATIONS

Basic Accuracy:.....	0.5%	Insulation Voltage:.....	2500 VDC
Linearity:.....	10% to 100% FS	Altitude:.....	2000 meter max.
Thermal Drift:.....	500 PPM/°C	Output Load:.....	4-20 mADC -0 to 300 Ω
Operating Temperature:.....	0°C to +60°C		0-5 VDC - 2K Ω or Greater
Installation Category:.....	CAT II	Cleaning:.....	Water-dampened cloth
Vibration Tested To:.....	IEC 60068-2-6,1995	Relative Humidity:...	5% to 95%, Non-Condensing
Pollution Degree:.....	2	Torque Specs.:.....	3.0 inch lbs. (0.4Nm)
Response Time:	250 ms max. 0-90% FS	Weight:.....	0.5 lbs.
Supply Voltage:.....	12 to 24 VDC		
MTBF:.....	Greater than 100 K hours		
Frequency Range:.....	50 Hz - 400 Hz, sine wave		

Transducers

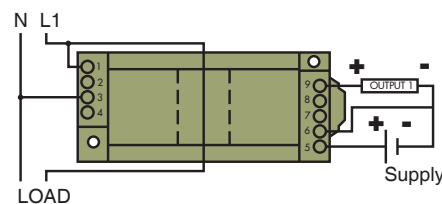


OUTLINE DRAWING



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.