

Average RMS AC Voltage Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS

The **CR4800** Series, Average RMS Voltage Transducers and Transmitters are designed to provide a DC output proportional to the AC voltage input. These devices are best suited for general applications, such as fixed frequency voltage supplies.



CR4810 CR4811 CR4820
Single Element
0 to 5 VDC Output or 4 - 20 mADC outputs



CR4850 CR4860 CR4870 CR4880
Three Element
0 to 5 VDC or 4 - 20 mADC outputs

Applications

- Monitor Motor Faults
- Monitor Heating Elements
- Monitor Lighting Elements
- Remote Voltage Sensing

Features

- 35mm DIN Rail or Panel Mount
- Available with 0-5 Vdc, 0-10Vdc or 4-20 mADC outputs
- 24 Vdc powered
- Outputs isolated from inputs
- Connection diagram printed on case

Regulatory Agencies

- Approved to UL 61010B-1
- Approved to CAN/CSA-C22.2, No. 61010-1-2004
- Meets requirement of IEC 61010-1 and BS EN 61010-1



CR Magnetics has a wide selection of Potential Transformers to extend the range of any part. See Section H for details.

Add suffix for input range

PART NUMBERS			
CR4810	-		Single Element with 0 - 5 VDC output
CR4811	-		Single Element with 0 - 10 VDC output*
CR4820	-		Single Element with 4 - 20 mADC output
CR4850	-		3-Element 3-Wire with 0 to 5 VDC Output
CR4860	-		3-Element 3-Wire with 4 - 20 mADC Output
CR4870	-		3-Element 4-Wire with 0 to 5 VDC Output
CR4880	-		3-Element 4-Wire with 4 - 20 mADC Output
* CR4811 Series not UL approved			

- 50** - 0-50 VAC
 - 150** - 0-150 VAC
 - 250** - 0-250 VAC
 - 500** - 0-500 VAC
- Ranges available up to and including 600 VAC



Another HUNTINGTON ELECTRIC Company

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Transducers

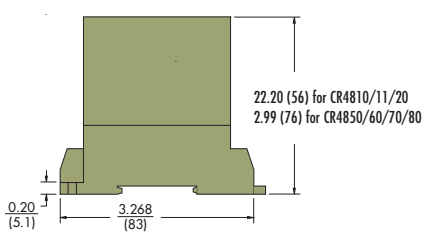
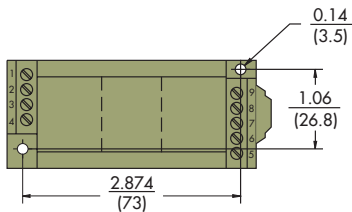
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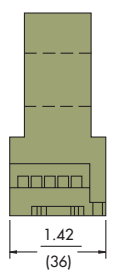
SPECIFICATIONS

Basic Accuracy:.....	0.5%	Output Load:.....0-5 VDC.....	2 K Ω or greater
Calibration:.....Average Sensing, RMS Calibrated		4-20 mADC.....	0 - 300 Ω
Thermal Drift:.....	500 PPM/ $^{\circ}$ C	Relative Humidity:.....80% for temperatures up to	
Operating Temperature:.....	0 $^{\circ}$ C to +60 $^{\circ}$ C	31 $^{\circ}$ C and decreasing linearly to 50% at 40 $^{\circ}$ C	
Installation Category:.....	CAT II	Supply Current:	
Pollution Degree:.....	2	CR4810:.....Typical 15mA	Max 30mA
Response Time:	250 ms	CR4820:.....Typical 23mA	Max 45mA
Altitude:.....	2000 meter max.	CR4850:.....Typical 25mA	Max 110mA
Insulation Voltage:.....	2500 Vdc	CR4860:.....Typical 55mA	Max 110mA
Supply Voltage:.....24 Vdc \pm 10%		CR4870:.....Typical 25mA	Max 110mA
Frequency Range:.....20 Hz - 5 KHz		CR4880:.....Typical 55mA	Max 110mA
Cleaning:.....Water-dampened cloth		Torque Specs:.....	3.0 inch lbs. (0.4Nm)
MTBF:.....	Greater than 100 K hours	Weight:.....	0.5 lbs.

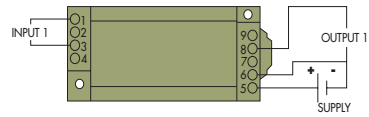
C Transducers



Dimensions for Models CR4810, 4811, 4820, 4850, 4860, 4870, 4880 (shown)



OUTLINE DRAWING



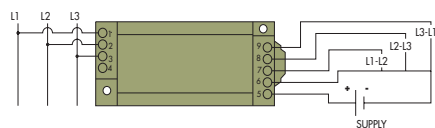
CR4810

Single Element - 0 - 5 VDC Output



CR4820

Single Element - 4 - 20 mA DC Output



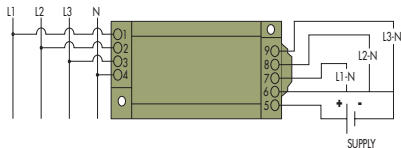
CR4850

3 Element, 3 Wire - 0 - 5 VDC Output



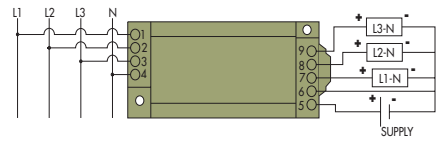
CR4860

3 Element, 3 Wire - 4-20 mA DC Output



CR4870

3 Element, 4 Wire - 0 - 5 VDC Output



CR4880

3 Element, 4 Wire - 4 - 20 mA DC 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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