

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.



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



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 or 4-20 mA DC outputs
24 Vdc powered
Outputs isolated from inputs
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



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

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

* CR4411 Series not UL approved

☐ Add suffix for input range

50 - 0-50 VAC
150 - 0-150 VAC
250 - 0-250 VAC
500 - 0-500 VAC
other ranges available



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>

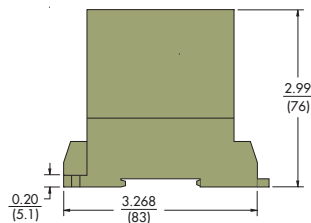
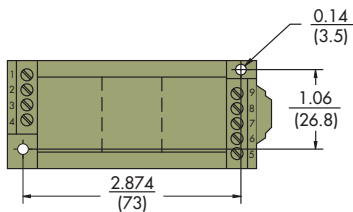
E-mail: sales@crmagnetics.com

Average RMS AC Voltage Transducer

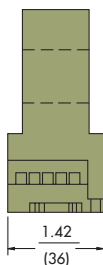
DIN RAIL / PANEL MOUNT, AVERAGE RMS

SPECIFICATIONS

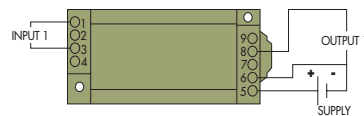
Basic Accuracy:.....	1.0 %	Output Load:.....0-5 VDC.....	2 K Ω or greater
Thermal Drift:.....	500 PPM/°C	4-20 mADC.....	0 - 300 Ω
Operating Temperature:.....	0°C to +50°C	Supply Current:	
Response Time:	250 ms. max.,0-90% FS	CR5210:.....	Typical 35mA Max 40mA
Insulation Voltage:.....	2500 VDC	CR5210S:.....	Typical 30mA Max 35mA
Supply Voltage:.....	24 VDC \pm 10%	CR5220:.....	Typical 60mA Max 100mA
Frequency Range:.....	50 Hz - 400 Hz	CR5220S:.....	Typical mA Max mA
MTBF:.....	Greater than 100 K hours	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
		Weight:.....	0.5 lbs.



Dimensions for All CR4800 Series (shown)



OUTLINE DRAWING



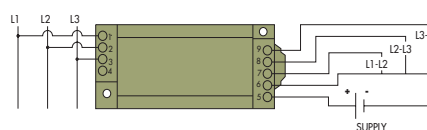
CR4810

Single Element - 0 - 5 VDC Output



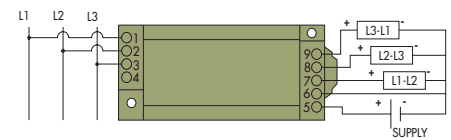
CR4820

Single Element - 4 - 20 mA DC Output



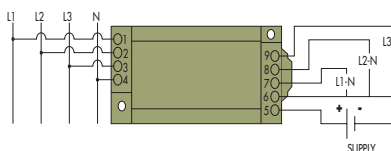
CR4850

3 Element, 3 Wire - 0 - 5 VDC Output



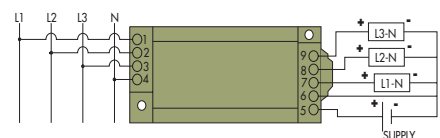
CR4860

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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