DIN RAIL / PANEL MOUNT, AVERAGE RMS



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



Three Element
0 to 5 VDC or 4 - 20 mADC outputs

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.

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

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







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 UI Recognized				

50 - 0-50 VAC 150 - 0-150 VAC 250 - 0-250 VAC 500 - 0-500 VAC

Ranges available up to and including 600 VAC

* UL Recognized up to 300 Vac

CR Magnetics has a wide selection of Potential Transformersto extend the range of any part. See Section G for details.



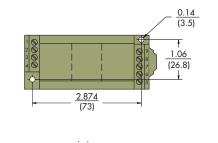
CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

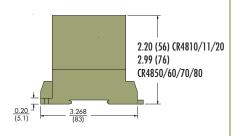
Web: http://www.crmagnetics.com

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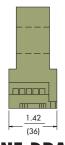
SPECIFICATIONS

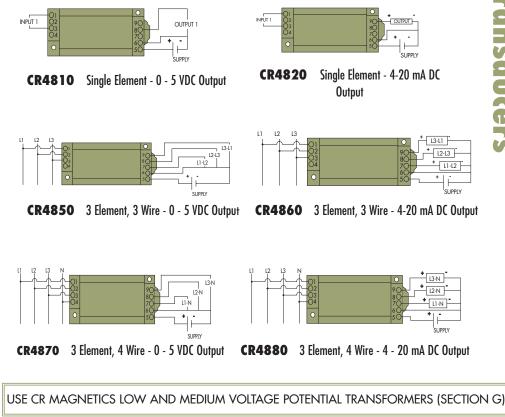
Basic Accuracy: 0.5%	Output Load:0-5 VDC
Calibration:Average Sensing, RMS Calibrated	4-20 mADC 0 - $300~\Omega$
Thermal Drift: 500 PPM/°C	Relative Humidity:80% for temperatures up to
Operating Temperature: 0°C to +60°C	31°C and decreasing linearly to 50% at 40°C
Installation Category: CAT II	Supply Current:
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:	CR4860:Typical 55mA Max 110mA
Supply Voltage:24 Vdc ±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.





Dimensions for Models CR4850, 4860, 4870, 4880 (shown)





OUTLINE DRAWING

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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