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 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







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 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.



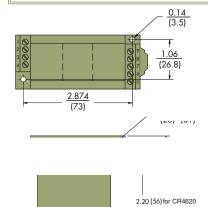
3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

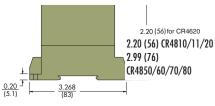
Web: http://www.crmagnetics.com 44 E-mail: sales@crmagnetics.com

DIN RAIL / PANEL MOUNT, AVERAGE RMS

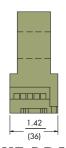
SPECIFICATIONS

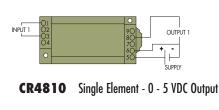
Basic Accuracy:	0.5%	Output Load:4-20 mADC - 0 to 300 Ω					
Linearity:	10% to 100% FS		0-5 VDC - 2K Ω c	r Greater			
Calibration:Average Sensing, RMS Calibrated Relative Humidity: 80% for temperature							
Thermal Drift:	500 PPM/°C		31°C and decreasing linearly				
Operating Temperature:	0°C to +60°C		to 50% at 40°C				
Installation Category:	CAT II	Supply Current:					
Vibration Tested To:	IEC 60068-2-6,1995	CR4810:	Typical 15mA	Max 30mA			
Pollution Degree:	2	CR4820:	Typical 23mA	Max 45mA			
Response Time:	250 ms	CR4850:	Typical 25mA	Max 110mA			
Altitude:	2000 meter max.	CR4860:	Typical 55mA	Max 110mA			
Insulation Voltage:	2500 Vdc	CR4870:	Typical 25mA	Max 110mA			
Supply Voltage:	24 Vdc ±10%	CR4880:	Typical 55mA	Max 110mA			
Frequency Range:	20 Hz - 400 Hz	Torque Specs.:	3.0 inch lbs. (0.4Nm)				
Cleaning:	Water-dampened cloth	Weight:	0.5 lbs.				
MTBF: Greater than 100 K hours							





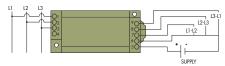
Dimensions for Models CR4850, 4860, 4870, 4880 (shown)

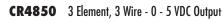






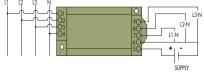
CR4820 Single Element - 4-20 mA DC Output

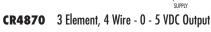






CR4860 3 Element, 3 Wire - 4-20 mA DC Output







CR4880 3 Element, 4 Wire - 4 - 20 mA DC Output

USE CR MAGNETICS LOW AND MEDIUM VOLTAGE POTENTIAL TRANSFORMERS (SECTION G)

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.



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

Web: http://www.crmagnetics.com 45 E-mail: sales@crmagnetics.com