# Average RMS AC Voltage Transducer

## DIN RAIL / PANEL MOUNT, AVERAGE RMS



Single Element 1.0 to 600 VAC Input Range



Three Element
1.0 to 600 VAC Input Range

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			

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

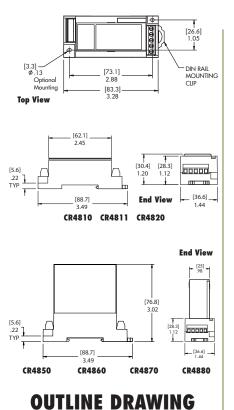
CR Magnetics has a wide selection of Potential Transformers to extend the range of any part. See Section G for details.

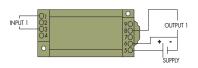
# Average RMS AC Voltage Transducer

## DIN RAIL / PANEL MOUNT, AVERAGE RMS

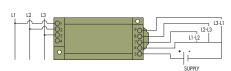
### **SPECIFICATIONS**

Basic Accuracy:	0.5%	Output Load:4-20 mADC - 0 to 300 $\Omega$			
Linearity:	10% to 100% FS	$0$ -5 VDC - 2K $\Omega$ or Greater			
Calibration:Average S	Sensing, RMS Calibrated	Relative Humidity: 5% to 95%, Non-Condensing			
Thermal Drift:	500 PPM/°C	Supply Current:			
Operating Temperature:	0°C to +60°C	CR4810:	Typical 15mA	Max 30mA	
Installation Category:	CAT II	CR4820:	Typical 23mA	Max 45mA	
Vibration Tested To:	IEC 60068-2-6,1995	CR4850:	Typical 25mA	Max 110mA	
Pollution Degree:	2	CR4860:	Typical 55mA	Max 110mA	
Response Time:	250 ms	CR4870:	Typical 25mA	Max 110mA	
Altitude:	2000 meter max.	CR4880:	Typical 55mA	Max 110mA	
Insulation Voltage:	2500 Vdc	Torque Specs.:	3.0 inch lbs. (0.4Nm)		
Supply Voltage:	24 Vdc ±10%	Weight:	0.5 lbs.		
Frequency Range:	50 Hz - 400 Hz				
Cleaning:	Water-dampened cloth				
MTBF:	Greater than 100 K hou	rs			





CR4810 Single Element - 0 - 5 VDC Output



CR4850 3 Element, 3 Wire - 0 - 5 VDC Output

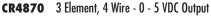


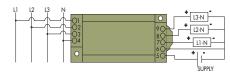
CR4820 Single Element - 4-20 mA DC Output



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







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

## **CONNECTION DIAGRAM**

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

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.

#### ISweek www.isweek.com