



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Average RMS AC Voltage Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS



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

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



Transducers

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

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E-mail: sales@crmagnetics.com

Average RMS AC Voltage Transducer

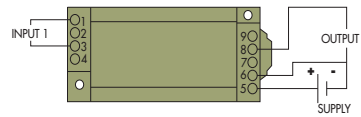
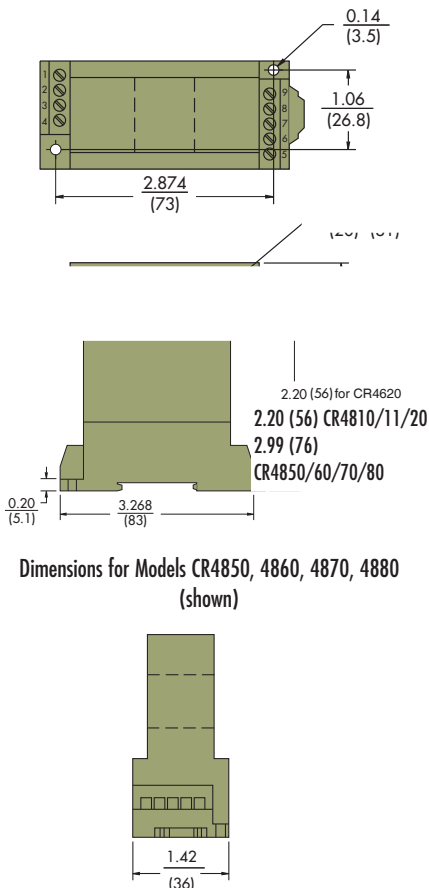
DIN RAIL / PANEL MOUNT, AVERAGE RMS

SPECIFICATIONS

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

C

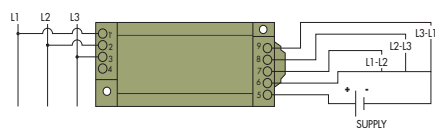
Transducers



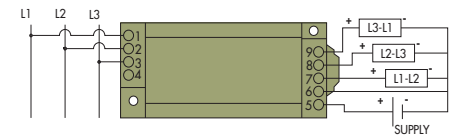
CR4810 Single Element - 0 - 5 VDC Output



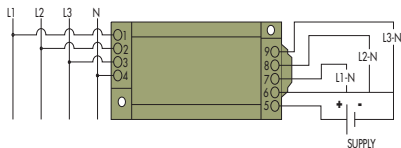
CR4820 Single Element - 4-20 mA DC Output



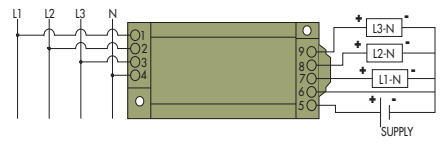
CR4850 3 Element, 3 Wire - 0 - 5 VDC Output



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

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.



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