

True RMS AC Voltage Transducer

DIN RAIL / PANEL MOUNT, TRUE RMS



CR4510 CR4511 CR4520

Single Element
50 to 500 VAC Input Range



CR4550 CR4560
CR4570 CR4580

Three Element
50 to 500 VAC Input Range

The **CR4500** Series, True RMS Voltage Transducers and Transmitters are designed for applications where AC voltage waveforms are not purely sinusoidal. More precise and accurate than other devices, these units are ideal in chopped wave and phase fired control systems.

Applications

Phase fired controlled devices
Quickly varying voltage supplies
Chopped waveform drivers
Harmonic voltages

Features

35mm DIN rail mount or panel mount
Available with 0-5 VDC or 4-20 mADC outputs
24 VDC powered
Highest precision available
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			
CR4510	-		Single element with 0 - 5 VDC output
CR4511	-		Single element with 0 - 10 VDC output
CR4520	-		Single element with 4 - 20 mADC output
CR4550	-		3-Phase 3-Wire with 0 to 5 VDC Output
CR4560	-		3-Phase 3-Wire with 4 - 20 mADC Output
CR4570	-		3-Phase 4-Wire with 0 to 5 VDC Output
CR4580	-		3-Phase 4-Wire with 4 - 20 mADC Output

Add suffix for input range

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

* UL Recognition Pending



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>

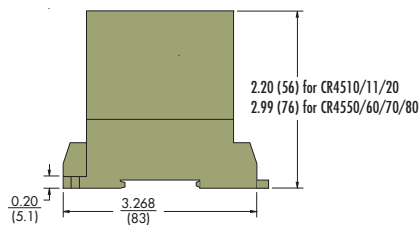
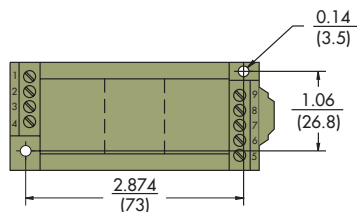
E-mail: sales@crmagnetics.com

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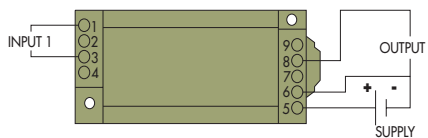
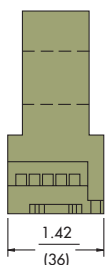
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SPECIFICATIONS

Basic Accuracy:.....	0.5%	MTBF:.....	Greater than 100 K hours
Calibration:.....	Average RMS Sensing	Output Load:.....	0-5 VDC - 2 K Ω or greater
Thermal Drift:.....	500 PPM/ $^{\circ}$ C		4-20 mADC - 0 to 300
Operating Temperature:.....	0 $^{\circ}$ C to +60 $^{\circ}$ C	Relative Humidity:.....	80% for temperatures up to 31 $^{\circ}$ C and decreasing linearly to 50% at 40 $^{\circ}$ C
Installation Category:.....	CAT II	Supply Current:	
Pollution Degree:.....	2	CR4510:.....	Typical 15mA Max 25mA
Response Time:	250 ms	CR4520:.....	Typical 25mA Max 40mA
Altitude:.....	2000 meter max.	CR4550/70:.....	Typical 20mA Max 60mA
Insulation Voltage:.....	2500 Vdc	CR4560/80:.....	Typical 55mA Max 110mA
Supply Voltage:.....	24 Vdc \pm 10%	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Frequency Range:.....	20 Hz - 5 KHz	Weight:.....	0.5 lbs.
Cleaning:.....	Water-dampened cloth		

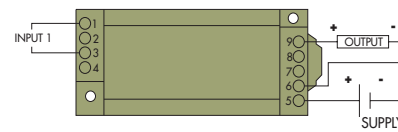


Dimensions for Models CR4550, CR4560, CR4570, CR4580 (shown)



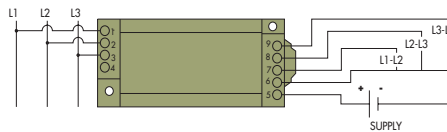
CR4510

Single Phase - 0 - 5 VDC Output



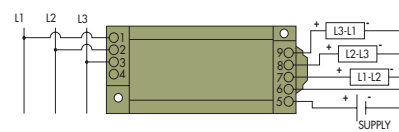
CR4520

Single Phase - 4 - 20 mADC Output



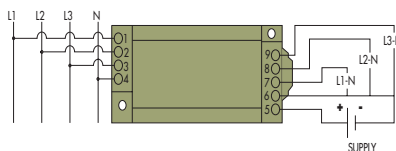
CR4550

3 Phase, 3 Wire - 0 - 5 VDC Output



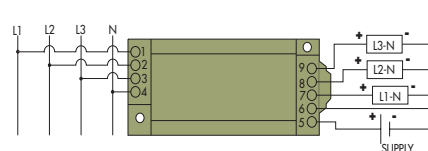
CR4560

3 Phase, 3 Wire - 4-20 mADC Output



CR4570

3 Phase, 4 Wire - 0 - 5 VDC Output



CR4580

3 Phase, 4 Wire - 4 - 20 mADC Output

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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