DIN RAIL / PANEL MOUNT, TRUE RMS



Single Element 50 to 500 VAC Input Range



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, 0-10VDC or 4-20 mADC output 24 VDC powered Highest precision available

Highest precision available
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						
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			

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. Contact factory for more information.



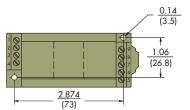
3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

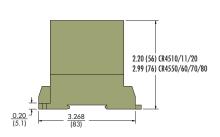
Web: http://www.crmagnetics.com 40 E-mail: sales@crmagnetics.com

DIN RAIL / PANEL MOUNT, TRUE RMS

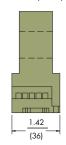
SPECIFICATIONS

Basic Accuracy:	0.5%	MTBF:	Greater than 100) K hours
Linearity:	10% to 100% FS	Output Load:	4-20 mADC - 0 t	ο 300 Ω
Calibration:	True RMS Sensing		0-5 VDC - 2K Ω	or Greater
Thermal Drift:	500 PPM/°C	Relative Humidity:	. 80% for tempera	tures up to
Operating Temperature:	0°C to +60°C		31°C and decre	asing linearly to
Installation Category:	CAT II		50% at 40°C	
Vibration Tested To:	IEC 60068-2-6,1995	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 ±10%	Torque Specs.:	3.0 inch lbs. (0.4	·Nm)
Frequency Range:	20 Hz - 5 KHz	Weight:	. 0.5 lbs.	
Cleaning:	Water-dampened cloth			

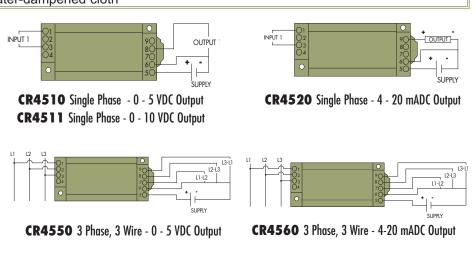




Dimensions for Models CR4550, CR4560, CR4570, CR4580 (shown)







(SECTION G) CONNECTION DIAGRAM

USE CR MAGNETICS LOW AND MEDIUM VOLTAGE POTENTIAL TRANSFORMERS

CR4580 3 Phase, 4 Wire - 4 - 20 mADC Output

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.

CR4570 3 Phase, 4 Wire - 0 - 5 VDC Output



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