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
Outputs isolated from inputs

Connection diagram printed on case

Regulatory Agencies

Recognized to UL 61010B-1 Recognized to 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

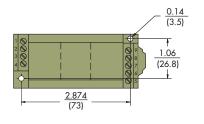
CR Magnetics has a wide selection of Potential Transformers to extend the range of any part. Contact factory for more information.

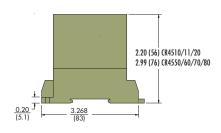


DIN RAIL / PANEL MOUNT, TRUE RMS

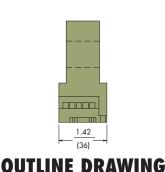
SPECIFICATIONS

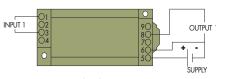
Basic Accuracy:	0.5%	MTBF: Greater than 100 K hours
Calibration:	True RMS Sensing	Output Load:0-5 VDC - 2 K Ω or greater
Thermal Drift:	500 PPM/°C	4-20 mADC - 0 to 300
Operating Temperature:	0°C to +60°C	Relative Humidity:80% for temperatures up to
Installation Category:	CAT II	31°C and decreasing linearly to 50% at 40°C
Pollution Degree:	2	Supply Current:
Response Time:	250 ms	CR4510:Typical 15mA Max 25mA
Altitude:	2000 meter max.	CR4520:Typical 25mA Max 40mA
Insulation Voltage:	2500 Vdc	CR4550/70:Typical 20mA Max 60mA
Supply Voltage:24 Vdc :	±10%	CR4560/80:Typical 55mA Max 110mA
Frequency Range:20 Hz - 9	5 KHz	Torque Specs.:
Cleaning:Water-da	ampened cloth	Weight:0.5 lbs.



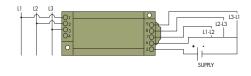


Dimensions for Models CR4550, CR4560, CR4570, CR4580 (shown)





CR4510 Single Phase - 0 - 5 VDC Output **CR4511** Single Phase - 0 - 10 VDC Output



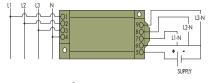
CR4550 3 Phase, 3 Wire - 0 - 5 VDC Output



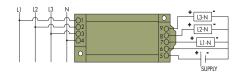
CR4520 Single Phase - 4 - 20 mADC Output



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

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.



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