DIN RAIL / PANEL MOUNT, TRUE RMS



Single Element - 0.79" Window
0.1 to 600 AAC Input Range



Two Element - 0 .26" Window
0.1 to 30 AAC Input Range



Three Element - 0.26" Window
0.1 to 30 AAC Input Range

The **CR4100** Series True RMS Current Transducers and Transmitters are designed for applications where AC current waveforms are not purely sinusoidal. More precise and accurate than other transducers, these devices are ideal in chopped wave and phase fired control systems.

Applications

Phase fired controlled heaters
Quickly varying motor loads
Chopped wave form drivers
Harmonic currents

Features

35mm DIN Rail or Panel Mount
Available with 0-5 VDC, 0-10 VDC, 4-20 mADC output
24 VDC powered
Use with external current transformers
Highest precision available
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

CE RoHS 2002/95/EC c UL us

E199795

Use a 5 Amp Secondary Current Transformer to extend the ranges of all CR Magnetics Current Transducers



All single phase current transducers are available in split core design. Simply put an "S" at the end of the prefix*
I.E. CR4110S-10
* **Not UL Recognized**

PART NUMBERS			
CR4110(S)	-		Single element with 0 - 5 VDC output (split core design)
CR4111(S)	-		Single element with 0 - 10 VDC output (split core design)
CR4120(S)	-		Single element with 4 - 20 mADC output (split core design)
CR4150	-		Two element with 0 - 5 VDC output **
CR4160	-		Two element with 4 to 20 mADC output **
CR4170	-		Three element with 0 - 5 VDC output **
CR4180	-		Three element with 4 - 20 mADC output **
*Two and three element transducers are available only in ranges of 0.1 to 30 AAC			

[ ] Add suffix for input range

5	-	0- 5 AAC **
10	-	0-10 AAC **
15	-	0-15 AAC **
20	-	0-20 AAC **
25	-	0-25 AAC **
30	-	0-30 AAC **
40	-	0-40 AAC
50	-	0-50 AAC
75	-	0-75 AAC
100	-	0-100 AAC
150	-	0-150 AAC

Ranges available up to and including 600 AAC

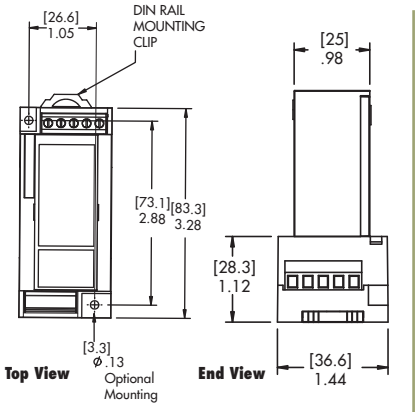
DIN RAIL / PANEL MOUNT, TRUE RMS

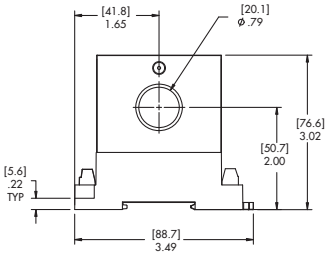
SPECIFICATIONS

Basic Accuracy:..... 0.5%
Linearity:..... 10% to 100% FS
Calibration:..... True RMS Sensing
Thermal Drift:..... 500 PPM/°C
Operating Temperature:..... 0°C to +60°C
Installation Category:..... CAT II
Pollution Degree:..... 2
Insulation Voltage:..... 2500 VDC
Vibration Tested To:.....IEC 60068-2-6,1995
Altitude:..... 2000 meter max.
Frequency Range:..... 20 Hz - 5 KHz
MTBF:..... Greater than 100 K hours
Cleaning:..... Water-dampened cloth
Supply Voltage:..... 24 VDC ± 10%
Output Load:..... 4-20 mADC - 0 to 300 Ω
0-5 VDC - 2K Ω or Greater

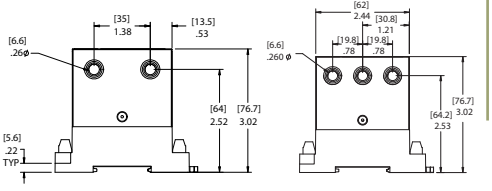
Response Time:..... 250 ms max. 0-90%
FS Relative Humidity:.....5% to 95%, Non-Condensing
Torque Specs.:..... 3.0 inch lbs. (0.4Nm)
Weight:.....0.5 lbs.
Supply Current:

CR4110/11.....	Typical 15mA	Max 25mA
CR4120.....	Typical 25mA	Max 40mA
CR4150.....	Typical 25mA	Max 75mA
CR4160.....	Typical 40mA	Max 70mA
CR4170.....	Typical 20mA	Max 60mA
CR4180.....	Typical 55mA	Max 110mA
CR4110S.....	Typical 15mA	Max 25mA
CR4120S.....	Typical 25mA	Max 40mA

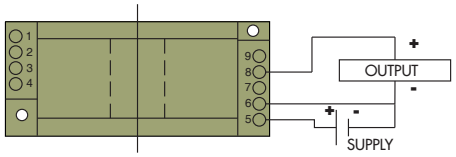




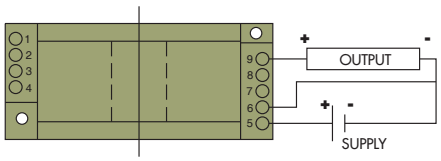
CR4110 CR4120 CR4111



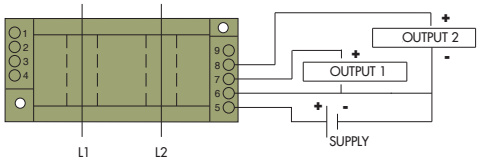
CR4150 CR4160 CR4170 CR4180



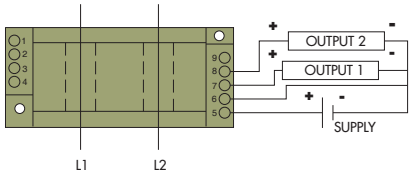
CR4110 One Element 0 - 5 VDC Output
CR4111 One Element 0 - 10 VDC Output



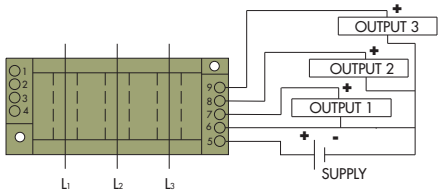
CR4120 One Element 4 - 20 mADC Output



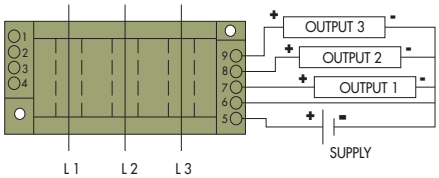
CR4150 Two Element 0 - 5 VDC Output



CR4160 Two Element 4 - 20 mADC Output



CR4170 Three Element 0 - 5 VDC Output



CR4180 Three Element 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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