CR4120 True RMS AC Current Transducer

SINGLE ELEMENT / DIN RAIL / PANEL MOUNT

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.

c UL us
E199795

CR4110 **CR4120**
One Element - .79” Window
0.5 to 150 Aac Range

CR4150 **CR4160**
Two Element - .26” Window
0.5 to 30 Aac Range

CR4170 **CR4180**
Three Element .26” window
0.5 to 30 Aac Range

Regulatory Agencies

Approved to UL3111-1, First Editon, Ammendment 2
Approved to CAN/CSA-C22.2, No. 1010.1-92
Meets requirement of IEC 61010-1 and BS EN 61010-1

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 or 4 - 20 mA DC outputs
- 24 Vdc powered
- Use with external current transformers
- Highest precision available
- Connection diagram printed on case

- Pricing: pricing/4100.html
- Application Sheets: pdf/ancr4310.pdf, pdf/ancr4310-2.pdf, pdf/ancr4320.pdf

See page 34 for typical applications

Part Numbers

CR4110 - ❑ Single element with 0 - 5 Vdc output
CR4120 - ❑ Single element with 4 - 20 mA DC output
CR4150 - ❑ Two element with 0 - 5 Vdc output *
CR4160 - ❑ Two element with 4 to 20 mA DC output *
CR4170 - ❑ Three element with 0 - 5 Vdc output *
CR4180 - ❑ Three element with 4 - 20 mA DC output *

* Two and three element transducers are available only in ranges of 0.5 to 30 Aac

❑ Add suffix for input range

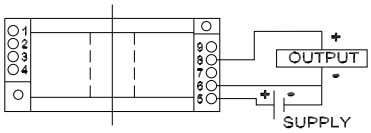
.5	-	0-.5 Aac *	**40**	-	0-40 Aac
5	-	0- 5 Aac *	**50**	-	0-50 Aac
10	-	0-10 Aac *	**75**	-	0-75 Aac
15	-	0-15 Aac *	**100**	-	0-100 Aac
20	-	0-20 Aac *	**150**	-	0-150 Aac
25	-	0-25 Aac *			
30	-	0-30 Aac *			

Other Ranges Available

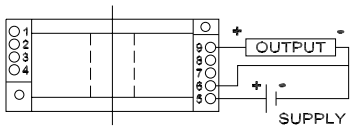
Specifications

Basic Accuracy:	0.5%
Calibration:	True RMS Sensing
Thermal Drift:	500 PPM/°C
Operating Temperature:	0°C to +60°C
Installation Catagory:	CAT II
Polution Degree:	2
Insulation Voltage:	2500 Vdc
Altitude:	2000
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 mA dc - 0 to 300 Ω 0-5 Vdc - 2K Ω or Greater
Response Time:	250 ms max. 0-90% FS
Relative Humidity:	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C

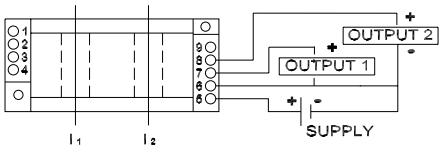
Connection Drawings



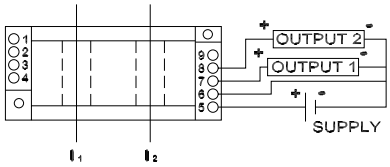
CR4110 One Element 0 - 5 Vdc Output



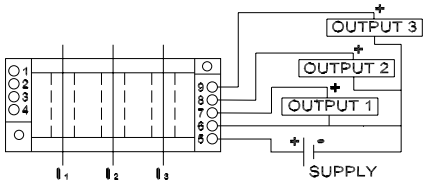
CR4120 One Element 4 - 20 mA DC Output



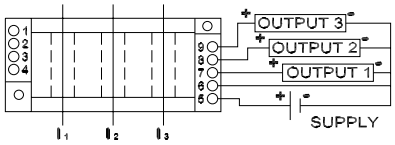
CR4150 Two Element 0 - 5 Vdc Output



CR4160 Two Element 4 - 20 mA DC Output



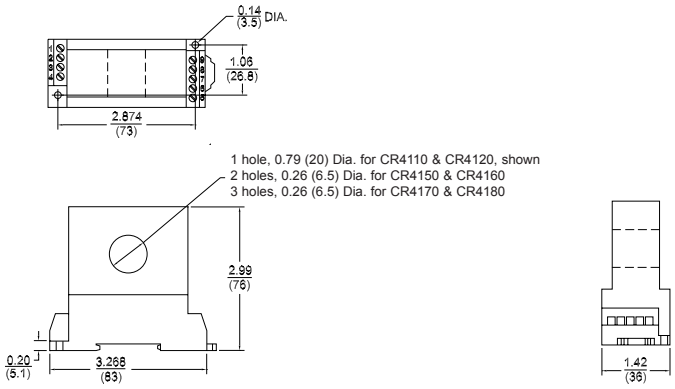
CR4170 Three Element 0 - 5 Vdc Output



CR4180 Three Element 4 - 20 mA DC 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.

Outline Drawing



inch (mm)