



Average RMS AC Current Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS

The CR4400 Series, Average RMS Voltage Transducers and Transmitters are designed to provide a DC output proportional to the AC current input. These devices are best suited for general applications, such as fixed frequency voltage supplies.

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
- Connection diagram printed on case

Internet Resources <http://www.crmagnetics.com/>



CR4410 CR4420
One Element - .79" Window
0.5 to 150 Aac Range



CR4450 CR4460
Two Element - .26" Window
0.5 to 30 Aac Range



CR4470 CR4480
Three Element .26" window
0.5 to 30 Aac Range

Part Numbers

- CR4410** - Single element with 0 - 5 Vdc output
- CR4420** - Single element with 4 - 20 mA DC output
- CR4450** - Two element with 0 - 5 Vdc output *
- CR4460** - Two element with 4 to 20 mA DC output *
- CR4470** - Three element with 0 - 5 Vdc output *
- CR4480** - 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

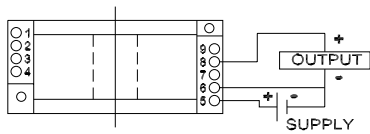
True RMS AC Current Transducer

Specifications

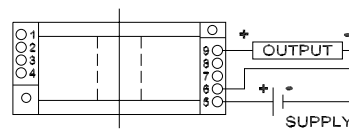
Basic Accuracy:..... 0.5%
 Calibration:..... Ave. RMS Sensing
 Thermal Drift:..... 500 PPM/°C
 Operating Temperature:..... 0°C to +60°C
 Installation Category:..... CAT II
 Pollution Degree:..... 2
 Insulation Voltage:..... 2500 Vdc
 Altitude:..... 2000 meter max.

Frequency Range:..... 20 Hz - 4 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

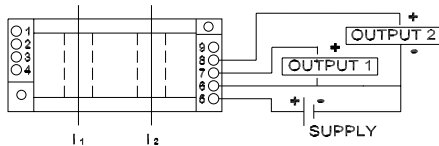
Connection Drawings



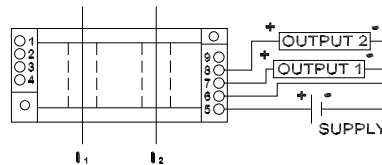
CR4410 One Element 0 - 5 Vdc Output



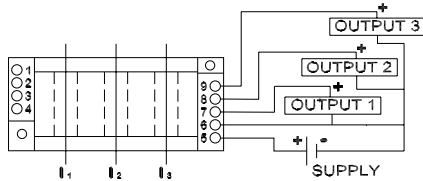
CR4420 One Element 4 - 20 mA DC Output



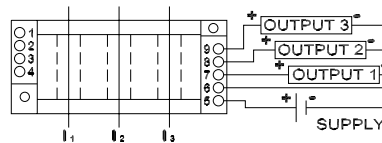
CR4450 Two Element 0 - 5 Vdc Output



CR4460 Two Element 4 - 20 mA DC Output



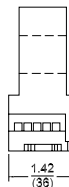
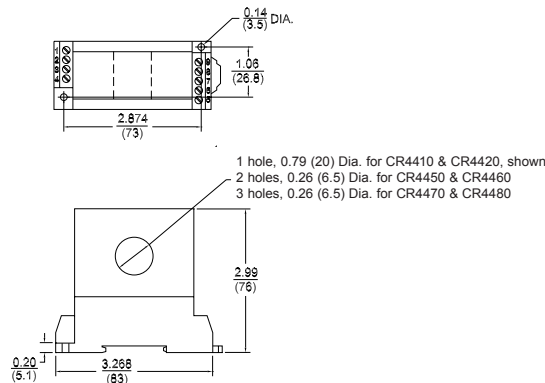
CR4470 Three Element 0 - 5 Vdc Output



CR4480 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)