



# CR4810 Average RMS AC Voltage Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS

The **CR4800** Series, Average RMS Voltage Transducers and Transmitters are designed to provide a DC output proportional to the AC voltage input. These devices are best suited for general applications, such as fixed frequency voltage supplies.



**CR4810      CR4820**  
Single Phase

## Applications

- Monitor Motor Faults
- Monitor Heating Elements
- Monitor Lighting Elements
- Remote Voltage Sensing

## Features

- 35mm DIN rail mount or panel mount
- Available with 0-5 Vdc or 4-20 mA DC outputs
- 24 Vdc powered
- Outputs isolated from inputs
- Connection diagram printed on case



**CR4850      CR4860**  
**CR4870      CR4880**  
Three Phase

Where to Buy <http://WWW.JDGASTORE.COM>

## Part Numbers

- CR4810** -  Single Phase with 0 to 5 Vdc Output
- CR4820** -  Single Phase with 4 - 20 mA DC Output
- CR4850** -  3-Phase 3-Wire with 0 to 5 Vdc Output
- CR4860** -  3-Phase 3-Wire with 4 - 20 mA DC Output
- CR4870** -  3-Phase 4-Wire with 0 to 5 Vdc Output
- CR4880** -  3-Phase 4-Wire with 4 - 20 mA DC Output

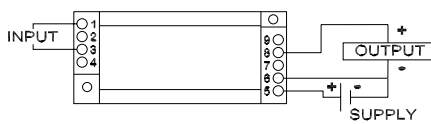
Add suffix for input range

- 50** - 0-50 Vac
- 150** - 0-150 Vac
- 250** - 0-250 Vac
- 500** - 0-500 Vac
- Other Ranges Available

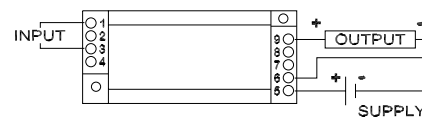
### Specifications

<p>Basic Accuracy:..... 0.5%</p> <p>Calibration:..... Average RMS sensing</p> <p>Thermal Drift:..... 500 PPM/°C</p> <p>Operating Temperature:..... 0°C to +60°C</p> <p>Installation Category:..... CAT II</p> <p>Polution Degree:..... 2</p> <p>Response Time: ..... 250 ms</p> <p>Altitude:..... 2000 meter max.</p> <p>Insulation Voltage:..... 2500 Vdc</p>	<p>Supply Voltage:.....24 Vdc ±10%</p> <p>Frequency Range:.....20 Hz - 5 KHz</p> <p>Cleaning:.....Water-dampened cloth</p> <p>MTBF:..... Greater than 100 K hours</p> <p>Output Load:.....0-5 Vdc - 2 K Ω or greater 4-20 mA dc - 0 to 300 Ω</p> <p>Relative Humidity:....80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C</p>
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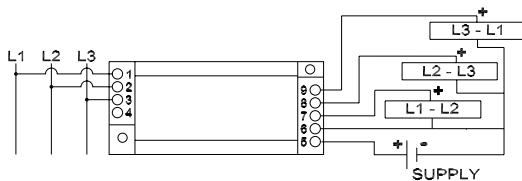
### Connection Drawings



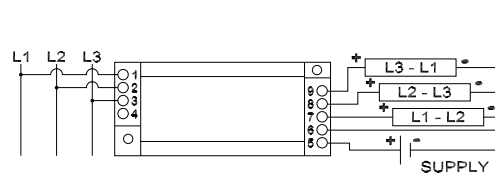
**CR4810**  
Single Phase - 0 - 5 Vdc Output



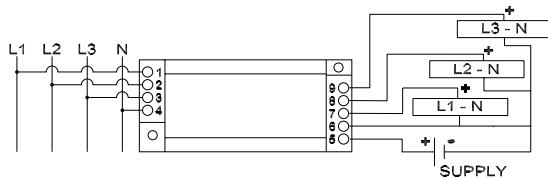
**CR4820**  
Single Phase - 4 - 20 mA DC Output



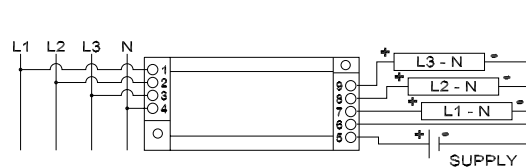
**CR4850**  
3 Phase, 3 Wire - 0 - 5 Vdc Output



**CR4860**  
3 Phase, 3 Wire - 4-20 mA DC Output

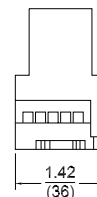
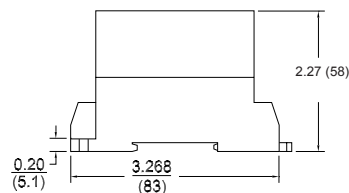
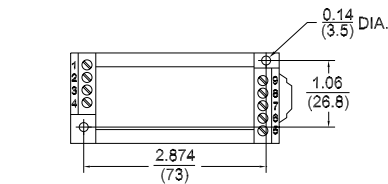


**CR4870**  
3 Phase, 4 Wire - 0 - 5 Vdc Output



**CR4880**  
3 Phase - 4 Wire - 4 - 20 mA DC Output

### Outline Drawing



inch (mm)