



Loop-Powered AC Voltage Transmitter

4-20 mA DC LOOP POWERED, AVERAGE SENSING

The **CR4600** Series, Loop-Powered AC Voltage Transmitters are designed to provide a 4 - 20 mA DC output that is proportional to the average RMS AC voltage input. These devices are best suited for general applications, such as fixed frequency voltage supplies.



Regulatory Agencies

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

Features

- Monitor for over/under voltage
- Sense phase loss
- Power monitoring
- Multi-point instrumentation needs

Applications

- 35 DIN Rail or Panel Mount
- Outputs isolated from inputs
- One or two element
- Connection diagram printed on case

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

- Pricing: [pricing/4600.html](http://www.crmagnetics.com/pricing/4600.html)



CR4620

One Element Transmitter



CR4640

Two Element Transmitter

See page 35 for typical applications

Part Numbers

CR4620 - ☐ Single Element with 4 - 20 mA DC output
CR4640 - ☐ Two Element 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

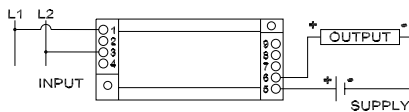
* not UL recognized

Loop-Powered AC Voltage Transmitter

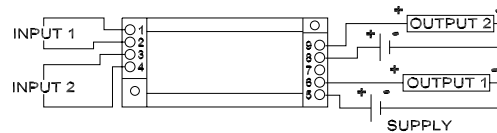
Specifications

Basic Accuracy:.....	0.5%	Power Source:.....	Loop Powered
Thermal Drift:.....	500 PPM/°C	Loop Voltage:.....	24 Vdc
Operating Temperature:.....	0°C to +60°C	Frequency Range:.....	20Hz - 5 KHz
Polution Degree:.....	2	Typical Load:.....	0 - 300 Ω @ 24 Vdc
Installation Catagory:.....	CAT II	Compliance Voltage:..	16 to 28 Vdc
Response Time:	250 ms	MTBF:.....	Greater than 100 K hours
Insulation Voltage:.....	2500 Vdc	Cleaning:.....	Water-dampened cloth
Altitude:.....	2000 meter max.	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Calibration:.....	Average Sensing, RMS Calibrated		

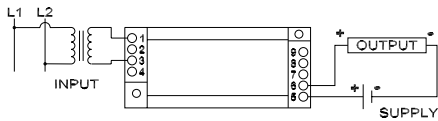
Connection Drawings



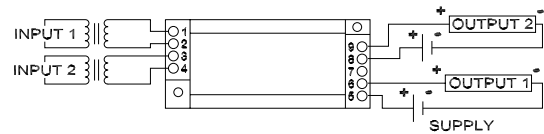
CR4620 One Element 4 - 20 mA DC Output



CR4640 Two Element, 4 - 20 mA DC Output



CR4620 One Element with
External Voltage Transformers * *



CR4640 Two Element with
External Voltage Transformers * *

* * USE CR MAGNETICS LOW AND MEDIUM VOLTAGE
POTENTIAL TRANSFORMERS

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

