

Average RMS AC Current Transducer

DIN RAIL / PANEL MOUNT, AVERAGE RMS



CR4410 CR4411 CR4420

Single Element - .79" Window
0.5 to 150 AAC Input Range



CR4450 CR4460

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



CR4470 CR4480

Three Element - .26" Window
0.5 to 30 AAC Input Range

The **CR4400** Series, Current Transmitters produce a calibrated 4-20 mADC signal that is proportional to the average RMS input AC current. Designed for multi-point current sensing, these devices provide excellent features in a high value package. The output signal is generated from a user supplied 24 VDC power supply within the output current loop.

Applications

- Multi-point current sensing and control panels
- Monitor motor faults
- Monitor heating elements
- Monitor lighting elements

Features

- Low cost
- DIN rail or panel mount
- High Accuracy
- Interfaces with most commercially available instrumentation
- Connection diagram printed on case

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



All single phase current transducers are available in split core design.
Simply put an "S" at the end of the prefix
* **UL Recognition Pending**

□ Add suffix for input range

PART NUMBERS		
CR4410(S)	-	Single element with 0 - 5 VDC output (split core design)
CR4411(S)	-	Single element with 0 - 10 VDC output (split core design)*
CR4420(S)	-	Single element with 4 - 20 mADC output (split core design)
CR4450	-	Two element with 0 - 5 VDC output *
CR4460	-	Two element with 4 to 20 mADC output *
CR4470	-	Three element with 0 - 5 VDC output *
CR4480	-	Three element with 4 - 20 mADC output *
Two and three element transducers are available only in ranges of 0.5 to 30 AAC * CR4411 Series not UL approved		

- .5 - 0-.5 AAC*
 - 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
- other ranges available



Another HUNTINGTON ELECTRIC Company

CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

Web: <http://www.crmagnetics.com>

E-mail: sales@crmagnetics.com

Transducers

Average RMS AC Current Transducer

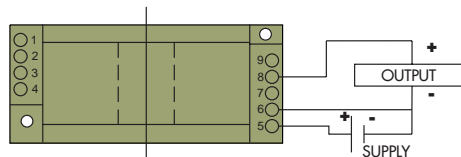
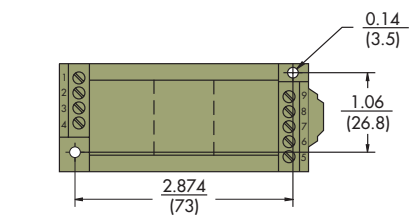
DIN RAIL / PANEL MOUNT, AVERAGE RMS

SPECIFICATIONS

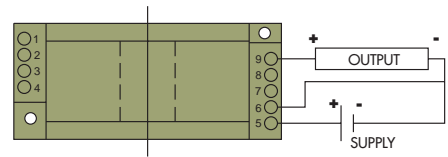
Basic Accuracy:.....	0.5%	Relative Humidity:.....	80% for temperatures up to 31°C and decreasing linearly to 50% at 40°C
Thermal Drift:.....	500 PPM/°C	Supply Voltage:.....	24 VDC ±10%
Operating Temperature:.....	0°C to +60°C	Supply Current:	
Installation Category:.....	CAT II	CR4410/11.....	Typical 20mA Max 40mA
Pollution Degree:.....	2	CR4420.....	Typical 25mA Max 45mA
Response Time:.....	250 ms	CR4450.....	Typical 20mA Max 75mA
MTBF:.....	Greater than 100 K hours	CR4460.....	Typical 40mA Max 90mA
Altitude:.....	2000 meter max.	CR4470.....	Typical 25mA Max 110mA
Calibration:.....	Average Sensing, RMS Calibrated	CR4480.....	Typical 55mA Max 120mA
Insulation Voltage:.....	2500 VDC	CR4410S.....	Typical ---mA Max ----mA
Power Source:.....	24 VDC	CR4420S.....	Typical ---mA Max ----mA
Frequency Range:.....	50Hz - 400Hz	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Output Load:.....	2K Ω or greater	Weight:.....	0.5 lbs.
Cleaning:.....	Water-dampened cloth		

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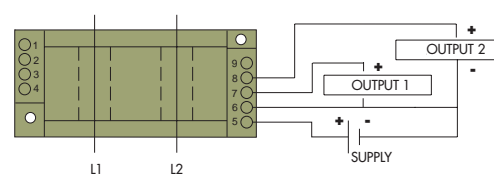
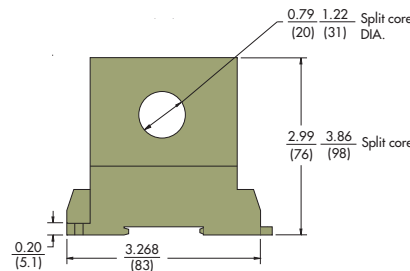
Transducers



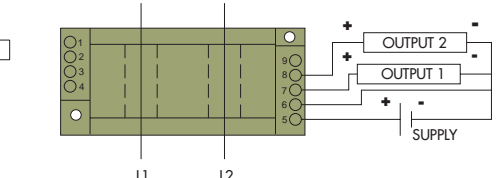
CR4410 One Element 0 - 5 VDC Output



CR4420 One Element 4 - 20 mADC Output

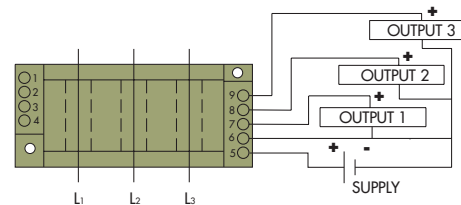
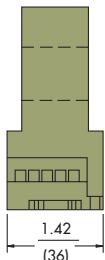


CR4450 Two Element 0 - 5 VDC Output

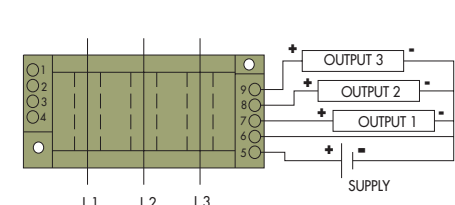


CR4460 Two Element 4 - 20 mADC Output

1 hole: 0.79(20) Dia. for CR4410 & 4420 (shown)
 2 holes: 0.26(6.5) Dia. for CR4450 & 4460
 3 holes: 0.26(6.5) Dia. for CR4470 & 4480



CR4470 Three Element 0 - 5 VDC Output



CR4480 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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