

# DC Voltage Transducer

## DIN RAIL / PANEL MOUNT, RMS



Single Element  
.01 - 200 VDC Input Range

The **CR5300** Series, DC Voltage Transducers and Transmitters, are designed to provide an output DC signal that is proportional to the input DC voltage. These devices are especially suited for applications with a current shunt to monitor DC current.

### Applications

- Power Supply over/under sensing
- Battery chargers and systems
- Mobile applications
- Power sensing

### Features

- Output isolated from input
- 0 - 5 VDC or 4 - 20 mADC outputs
- 35mm DIN rail or panel mount
- 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



CR5310 with Resistor Application is shown below.



### PART NUMBERS

<b>CR5310</b>	-		Single Element with $\pm 5$ VDC output
<b>CR5311</b>	-		Single Element with $\pm 10$ VDC output
<b>CR5320</b>	-		Single Element with 4 - 20 mADC output

Add suffix for input range

- .01** - 0-0.01 VDC
  - .05** - 0-0.05 VDC
  - .1** - 0-0.1 VDC
  - 1** - 0-1 VDC
  - 5** - 0-5 VDC
  - 10** - 0-10 VDC
  - 50** - 0-50 VDC
  - 150** - 0-150 VDC
  - 200** - 0-200 VDC
- other ranges available

If you need a relay output, use a **CR3395**.  
See Section E for Details.



Another HUNTINGTON ELECTRIC Company

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

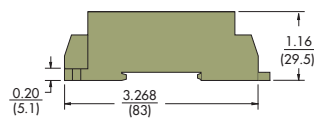
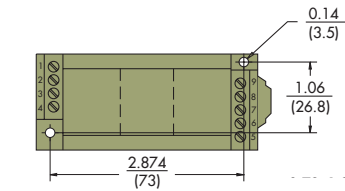
Web: <http://www.crmagnetics.com>

E-mail: [sales@crmagnetics.com](mailto:sales@crmagnetics.com)

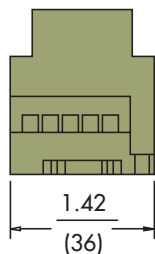
Transducers

### SPECIFICATIONS

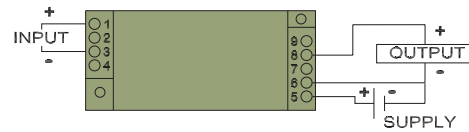
Basic Accuracy:.....	0.5 %	Supply Voltage:.....	24 VDC $\pm$ 10%
Calibration:.....	RMS Calibrated	Frequency Range:.....	DC only
Thermal Drift:.....	200 PPM/ $^{\circ}$ C	Output:.....	$\pm$ 5 VAC/DC
Operating Temperature:.....	0 $^{\circ}$ C to +60 $^{\circ}$ C	Output Load:.....	$\pm$ 5 or $\pm$ 10 VDC..... 2 K $\Omega$ or greater
Installation Category:.....	CAT II	4-20 mADC.....	0 - 300 $\Omega$
Pollution Degree:.....	2	Supply Current:	
Response Time:.....	250 ms. max., 0-90% FS	CR5310:.....	Typical 10mA Max 15mA
Altitude:.....	2000 Meters Max.	CR5320:.....	Typical 35mA Max 35mA
MTBF:.....	Greater than 100 K hours	Torque Specs:.....	3.0 inch lbs. (0.4Nm)
Insulation Voltage:.....	2500 VDC	Weight:.....	0.5 lbs.



Dimensions for All CR5300 Series (shown)



### OUTLINE DRAWING



**CR5310**

0 -  $\pm$ 5 VDC Output



**CR5320**

4 - 20 mADC Output

### 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.

