

# DC Voltage Transducer

## DIN RAIL / PANEL MOUNT, RMS



Single Element  
1 - 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

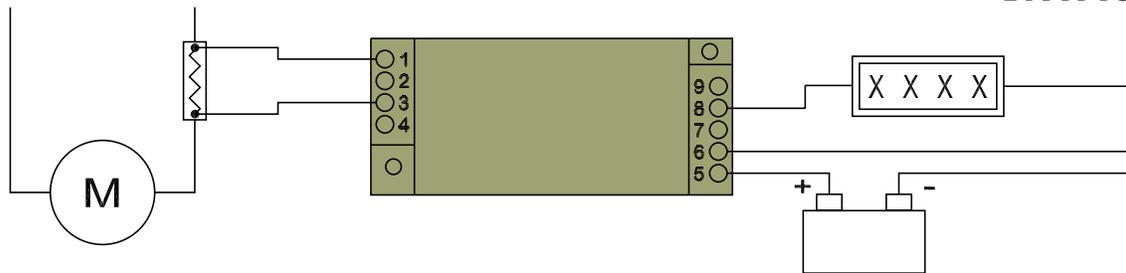
### Features

- Output isolated from input
- Available with 0-5 VDC, 0-10 VDC or 4 - 20 mADC outputs
- 35mm DIN rail or panel mount
- Connection diagram printed on case

### Regulatory Agencies

- Approved to 61010B-1
- Approved to CAN/CSA-C22.2, No. 1010.1-92
- Meets 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

- 1** - 0-1 VDC
- 5** - 0-5 VDC
- 10** - 0-10 VDC
- 50** - 0-50 VDC
- 150** - 0-150 VDC
- 200** - 0-200 VDC

Ranges available up to and including 600 VDC

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

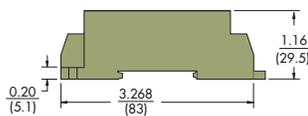
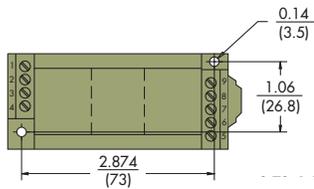
Web: <http://www.crmagnetics.com>

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

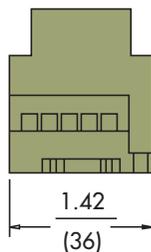
Transducers

### SPECIFICATIONS

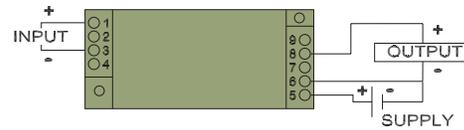
Basic Accuracy:.....	0.5 %	Supply Voltage:.....	24 VDC $\pm$ 10%
Calibration:.....	RMS Calibrated	Frequency Range:.....	DC only
Thermal Drift:.....	200 PPM/ $^{\circ}$ C	Output Load:..... $\pm$ 5 or $\pm$ 10 VDC.....	2 K $\Omega$ or greater
Operating Temperature:.....	0 $^{\circ}$ C to +60 $^{\circ}$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



Dimensions for All CR5300 Series (shown)

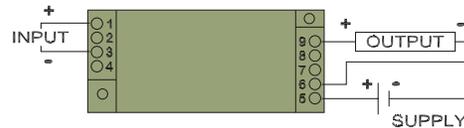


### OUTLINE DRAWING



**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.

