

DC Current Transducer

DIN RAIL / PANEL MOUNT, RMS



Single Element - .79" Window
0.1 to 600 ADC Input Range



Single Element - 1.2" Window
20 to 600 ADC Input Range

The **CR5200** Series, DC Current Transducers are designed to provide a DC signal which is proportional to a DC sensed current. These devices are designed for direct current only, targeting them towards general and daily applications. The ranges 2 to 10 Amp utilize an advanced Magnetic Modulator technology and the ranges 20 amps and above utilize Hall Effect technology.

Applications

- Battery chargers and systems
- DC motor drives
- Power supply management
- Mobile applications

Features

- Closed loop sensing for accuracy
- 35mm DIN rail or panel mount
- Available with ± 5 VDC, ± 10 VDC or 4 - 20 mADC outputs
- Non-contact DC current sensing
- Connection diagram printed on case

Regulatory Agencies

- Constructed to meet UL 61010B-1
- Constructed to meet CAN/CSA-C22.2, No. 61010-1-2004
- Meets requirement of IEC 61010-1 and BS EN 61010-1

Transducers



Contact Factory for Custom ± 5 VDC, ± 10 VDC
or 4 - 20 mADC Output Options

All single phase current transducers are available in split
core design. Simply put an "S" at the end of the prefix*
I.E. CR5210S-30

PART NUMBERS			
CR5210(S)	▪		Single Element with ± 5 VDC output (split core design)
CR5211(S)	▪		Single Element with ± 10 VDC output (split core design)
CR5220(S)	▪		Single Element with 4 - 20 mADC output (split core design)
NOTE: DC Split Core Transducers Available in 20 Amps and Higher			
NOTE: CR5200 Series is available with 12V Power Supply. Use same application as 24V Power Supply.			
Example Part Number: CR5210-300-12V			

Add suffix for input range

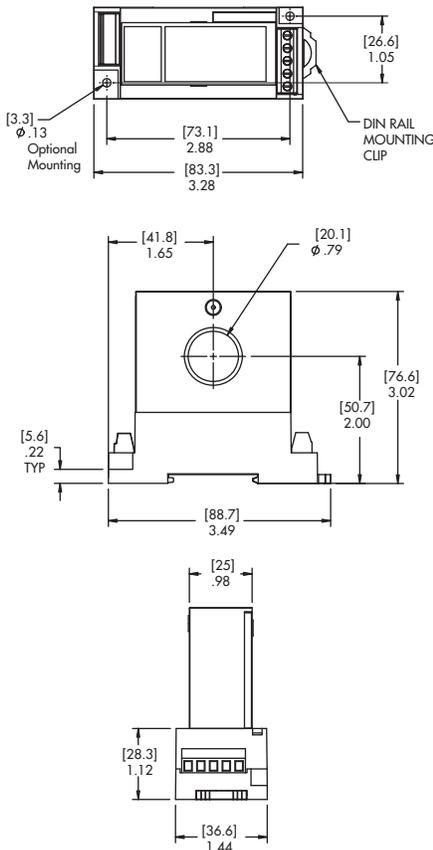
- 2** - 0-2 ADC
 - 5** - 0-5 ADC
 - 10** - 0-10 ADC
 - 20** - 0-20 ADC
 - 30** - 0-30 ADC
 - 50** - 0-50 ADC
 - 75** - 0-75 ADC
 - 100** - 0-100 ADC
 - 150** - 0-150 ADC
 - 300** - 0-300 ADC
- Ranges available up to and including 600 ADC

DC Current Transducer

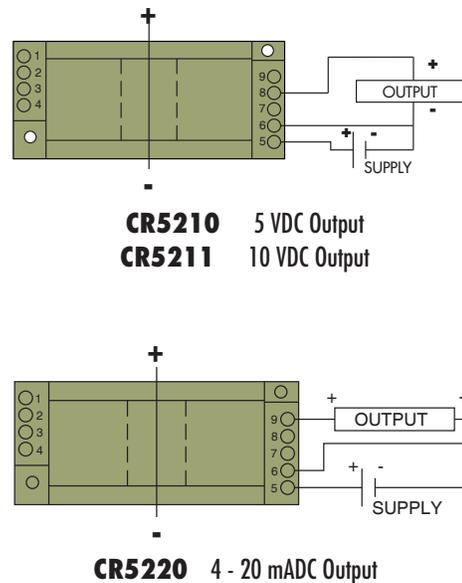
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SPECIFICATIONS

Basic Accuracy:.....	1.0 %	MTBF:.....	Greater than 100 K hours
Linearity:.....	10% to 100% FS	Output Load:.....	4-20 mADC - 0 to 300 Ω
Thermal Drift:.....	500 PPM/°C		0-5 VDC - 2K Ω or Greater
Operating Temperature:.....	0°C to +50°C	Relative Humidity:.....	5% to 95%, Non-Condensing
Installation Category:.....	CAT II	Supply Current:	
Vibration Tested To:.....	IEC 60068-2-6,1995	CR5210:.....	Typical 35mA Max 40mA
Pollution Degree:.....	2	CR5210S:.....	Typical 30mA Max 35mA
Response Time:	250 ms	CR5220:.....	Typical 60mA Max 100mA
Altitude:.....	2000 meter max.	CR5220S:.....	Typical 40mA Max 50mA
Insulation Voltage:.....	2500 VDC	Torque Specs.:.....	3.0 inch lbs. (0.4Nm)
Supply Voltage:.....	24 VDC ±10%	Weight:.....	0.5 lbs.
Frequency Range:.....	DC Only		
Cleaning:.....	Water-dampened cloth		



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.

Transducers