Data Stream RS485 Digital Current Transducer



Single Element - .26" Window 1 to 25 AAC Input Range



Two Element - .26" Window 1 to 25 AAC Input Range



Three Element - .26" Window 1 to 25 AAC Input Range

The **CRD4100** Series Data Stream Digital Current Transducers are designed for applications where AC current waveforms are not purely sinusoidal. The digital technology is used to measure voltage, current, power frequency and energy in single and three phase designs. The data is streamed over an RS485 IEEE bus which enables multiple transducers to communicate thru a single master connection. These advanced sensors are ideal for entire plant or zone monitoring. Also, the communication alagorithm can be pre-ordered with ASCII based control or modified MODBUS based control.

Sensing

True RMS Current, Each Phase

Applications

Sub-Metering

Motor Loads

Uninterruptible Power Systems

Remote Monitoring

Load Shedding

Energy Management

Features

35mm DIN Rail or Panel Mount

Available with 0 - 5 VDC or 4 - 20 mADC outputs

24 VDC powered

Use with external current transformers

Highest precision available

Connection diagram printed on case

Regulatory Agencies



CR Magnetics has a wide selection of Current Potential Transformers to extend the range of any part. See Sections G & H for details.

PART NUMBERS

CRD4110 CRD4150

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Single Element, AC Digital Current RS 485 Transducer Two Element, AC Digital Current RS 485 Transducer

Three Element, AC Digital Current RS 485 Transducer

Add suffix for input range

1 - 0-1 AAC

5 - 0-5 AAC

15 • 0-15 AAC

25 - 0-25 AAC

E-mail: sales@crmagnetics.com

other ranges available

Note: Add an M at the end for MODBUS



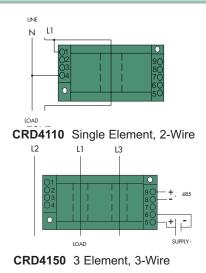
CR Magnetics, Inc. 3500 Scarlet Oak Blvd. St. Louis MO USA 63122 V: 636-343-8518 F: 636-343-5119

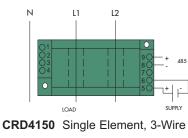
Web: http://www.crmagnetics.com

13

SPECIFICATIONS

Basic Accuracy:	0.5%	Output Load:20 mA DC - 0 to 300 Ω
Calibration:	True RMS Sensing	0-5 VDC - 2K Ω or Greater
Thermal Drift:5	500 PPM/°C	Response Time:250 ms. max. 0-90% FS
Operating Temperature:0	0°C to +60°C	Relative Humidity:80% for temperatures up to
Installation Category:C	CAT II	31°C and decreasing linearly to 50% at 40°C
Pollution Degree:2	2	Output Resolution:16 bit
Insulation Voltage:2	2500 VDC	Transducer fanout on common bus:64 max.
Altitude:20	000 meter max	Baud Rate 2:1200, 2400, 4800, 9600,19.7K .bps
Frequency Range:20	0 Hz - 5 KHz	A/D Conversion Type:4th order Delta Sigma
MTBF:G	Greater than 100K hours	Device Address 2:00 to FF
Cleaning:W	Vater-dampened cloth	Data Format:ASCII
Supply Voltage:24	4 VDC ±10%	Supply Current:Typical 30mA Max 30mA
Torque Specifications:3	.0 inch lbs (0.4Nm)	Weight:

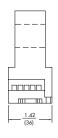


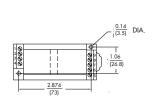


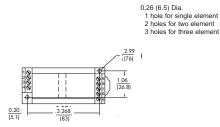
N L1 L2 L3

CRD4170 3 Element, 4-Wire

Connection Diagram







OUTLINE DRAWING



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