

# CURRENT TRANSDUCERS

## RMS CURRENT TRANSDUCER/TRANSFORMER

MODEL CTCR

### DESCRIPTION

The CTCR series of transducers provide a non-contact, loop powered, method of current measurement. The dc output is directly proportional to the true RMS value of ac window current. Measurement ranges of 1A to 100A are available.



### FEATURES

- $\pm 0.25\%$  accuracy ( $\pm 0.5\%$  on 1A model)
- True RMS measurement
- Non-contact
- Loop-powered
- Ease of installation

### SPECIFICATIONS

#### INPUT

Current Range ..... (See Table)  
 Over-Range w/o damage .... Continuous .. 1.3X Rating  
                             Transient..... 5X Rating  
 Frequency Range ..... 50-400Hz

#### OUTPUT

Type ..... 2-Wire ..... 4-20mAdc, loop powered  
 Scaling ..... 0-F.S. Input = 4-20mAdc Output  
 Loading..... 24Vdc Loop Power ..... 0-500 $\Omega$   
                     15Vdc Loop Power ..... 0-400 $\Omega$   
 Response ... to 90% ..... 250ms, Typical  
 Ripple .....  $\leq 1.0\%$  F.S. pk-pk

#### DIELECTRIC TEST

Conductor Through Window to Output ..... 2200Vac

#### INSTRUMENT POWER

Loop-Powered ..... Nominal ..... 24Vdc  
                     Range ..... 15-35Vdc

#### ACCURACY (setpoint, linearity, repeatability)

1A Model  
 50/60Hz ..... 10-100% F.S. ....  $\pm 0.5\%$  F.S.  
 All Other.....  $\pm 2\%$  F.S. Typical  
 5A-100A Models  
 50/60Hz ..... 10-100% F.S. ....  $\pm 0.25\%$  F.S.  
 All Other.....  $\pm 1\%$  F.S. Typical

#### TEMPERATURE

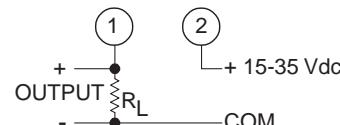
Operating..... Range..... -20°C to +60°C  
                     Effect .....  $\pm 1.0\%$  F. S.

#### PHYSICAL

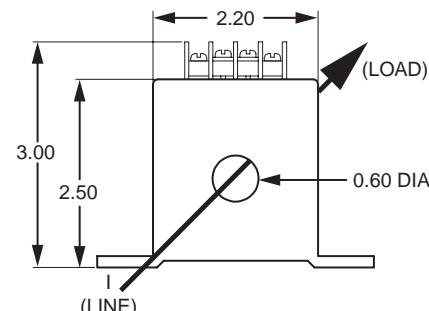
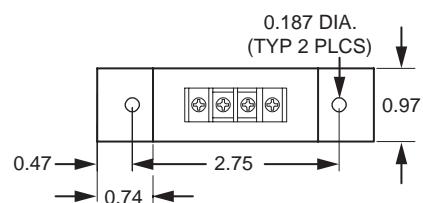
Termination ..... No. 6-32 Screw Terminals  
 Enclosure..... ABS, Black, UL94V-0  
 Weight ..... Approximately 0.2 Lb.

INPUT Aac	CATALOG NUMBER
	(4-20mAdc LOOP-POWERED)
0-1	CTCR-001E2
0-5	CTCR-005E2
0-10	CTCR-010E2
0-15	CTCR-015E2
0-20	CTCR-020E2
0-25	CTCR-025E2
0-30	CTCR-030E2
0-35	CTCR-035E2
0-40	CTCR-040E2
0-50	CTCR-050E2
0-100	CTCR-100E2

### CONNECTIONS



### DIMENSIONS



All Dimensions In Inches

**FLEX-CORE®**

Div. Morlan & Associates, Inc.

4970 Scioto Darby Rd. Hilliard, Ohio 43026

**WWW.FLEX-CORE.COM**

sales@flex-core.com

**PHONE** (614) 889-6152

**TECH. ASSISTANCE** (614) 876-8308

**FAX #** (614) 876-8538