M AC CURRENT TRANSDUCER

The CTC & CTD units provide a self-powered 5Vdc, 10Vdc,

or 1mAdc output, or a loop-powered 4-20mAdc output

proportional to window currents, or ranges up to 2000

Amperes at 50-400Hz. The dc output is proportional to

the average absolute value of the input and is calibrated

10Vdc

005C

010C

015C

020C

025C

030C

035C

040C

050C

10Vdc

050C

100C

150C

200C

300C

400C

500C

600C

800C

300CZ03

400CZ03

500CZ03

600CZ03

800CZ03

1000CZ03

2000CZ03

1000C

STANDARD OUTPUTS MODEL CTD-

STANDARD OUTPUTS MODEL CTC-

1mA

1mAdc

050A

100A

150A

200A

300A

400A

500A

600A

800A

300AZ03

400AZ03

500AZ03

600AZ03

800AZ03

1200CZ03 | 1200AZ03 | 1200E2Z03

1500CZ03 | 1500AZ03 | 1500E2Z03

1000A

DESCRIPTION

with the sine wave inputs.

5Vdc

005CX5

010CX5

015CX5

020CX5

025CX5

030CX5

035CX5

040CX5

050CX5

5Vdc

050CX5

100CX5

150CX5

200CX5

300CX5

400CX5

500CX5

600CX5

800CX5

300CX5Z03

400CX5Z03

500CX5Z03

600CX5Z03

800CX5Z03

1000CX5Z03

1200CX5Z03

1500CX5Z03

2000CX5Z03

1000CX5

INPUT

AC AMPS

0 - 5

0 - 10

0 - 15

0 - 20

0 - 25

0 - 30

0 - 35

0 - 40

0 - 50

INPUT

AC AMPS

0-50

0-100

0-150

0-200

0-300

0-300

0-400

0-400

0-500

0-500

0-600

0-600

0-800

0-800

0-1000

0-1000 0-1200

0-1500

0-2000

Output R

5Aac - 2000Aac RANGES **FEATURES**

Sen.

Dwg.

Α

Α

Α

A

Α

A

A

A

Α

Sen.

Dwg.

В

В

В

В

В

С

В

C

В

С

В

С

В

С

В

С

С

С

4 - 20mAdc*

005E2

010E2

015E2 020E2

025E2

030E2

035E2

040E2 050E2

4 - 20mAdc**

050E2

100E2

150E2

200E2

300E2

400E2

500E2

600E2

800E2

300E2Z03

400E2Z03

500E2Z03

600E2Z03

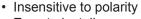
800E2Z03

1000E2

1000AZ03 1000E2Z03

|2000AZ03|2000E2Z03

5 YEAR WARRANTY



- Easy to install
- Accurate and reliable from 50-400Hz.

APPLICATIONS

 Designed for applications requiring accurate current measurements.

ORDERING INFORMATION

Example: 25 Amps AC Input with 4-20mA Loop-Powered Output. CTC - 025E2



Measuring Equipment 7N93



SPECIFICATIONS

INPUT

Current	See table
Frequency RangeCT0	C 50-60Hz
CTI	D 50-400Hz
Burden	0.15VA
Current Overload	1.3 X rating, continuous
	5 X rating for 10s/hr

DIELECTRIC TEST

Input/Output/Case1	800Vac
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INSTR. POWER	"CX5", "C", & 1mA	Self-powered
	"E2" Loop-powered	24Vdc, ±4Vdc

0

A

		=
UTPUT		
Response Time	e(to 90%)	Typical 300ms
	5A & 10A models	<750ms
Loading	"C", "CX5" models	>10MΩ
· ·	"A" models	0-10kΩ
	"E2" models	0-500Ω
CCURACY	Sen. Dwg. A (10A-50A)	±0.25% F.S.
	All other models	

All other models ±0.5% F.S. Includes linearity, set point and repeatability@60Hz

Temperature Effect (-20°C to +60°C)±1.0% Rdg.

5V, 10V & 1mA models are self-powered from measured line.
**4-20mA loop-powered models require an external 24Vdc power
supply. These models are not CE-Compliant.

24\/

(X2) (X1) Self-Powered Option

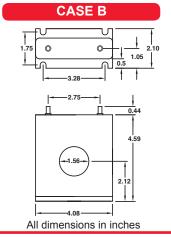
CONNECTIONS

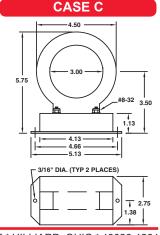
Loop-Powered Option E2

0.6" DIA

CASE A

Net Weight			
Case A	0.6 Lb.		
Case B	1 Lb.		
Case C	1.2 Lb.		





OHIO SEMITRONICS, IN

4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264 PHONE: (614) 777-1005 * FAX: (614) 777-4511 **WWW.OHIOSEMITRONICS.COM** * **1-800-537-6732**

INSTALLATION & OPERATING INSTRUCTIONS MODELS CTC- & CTD-

INSTALLATION INSTRUCTIONS

- 1. Installation should be performed by qualified electricians only!
- 2. Make sure electrical service is disconnected before making any electrical connections.
- 3. Branch circuit protection is required to be provided in accordance with the National and Local codes of the inspection authority.
- 4. Route wires as required and secure to terminals per connection diagram on this sheet and on the unit.
- Transducers are suitable for installation on 600Vac lines.
- 6. To prevent contact with live circuits, when installed on a bare bus bar, the transducer is required to be mounted in an enclosure that requires the use of a tool for access. When installed on an insulated cable this second enclosure is not required.

OPERATING INSTRUCTIONS

- 1. This unit is intended for indoor use at altitudes up to 2000 meters.
- 2. Transient overvoltages according to Installation Category (overvoltage category) II, pollution Degree 2.
- 3. If cleaning of the exterior surface is necessary, de-energize all services of supply (both measuring and instrument power circuits) and brush with a soft brush or blow off with low-pressure air. Use appropriate eye protection. Not suitable for hose-down cleaning.
- 4. Maximum relative humidity 80 percent for temperatures up to 31°C decreasing linearly to 50 percent relative humidity at 40°C.
- 5. Maximum operating temperature range is -20°C to 60°C.







UL approved for USA and Canada

Equipment approved as Double Insulated

Direct Current

WARRANTY STATEMENT

Ohio Semitronics Inc. warrants this unit to be free of defects in material and workmanship for a period of five years from date of shipment. This unit must not be used in any manner other than as specified in this document.