

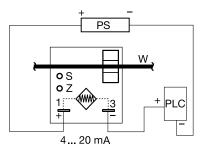
Current Transducers



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Wiring Diagram



PS = Power Supply Z = Zero Adjust S = Span Adjust W = Insulated Wire Carrying Monitored Current PLC = PLC Analog Input or Meter Input

Ordering Information

MODEL	CURRENT RANGE
TCSA5	0-5A
TCSA10	0-10A
TCSA20	0-20A
TCSA50	0-50A

If you don't find the part you need, call us for a custom product 800-843-8848

Description

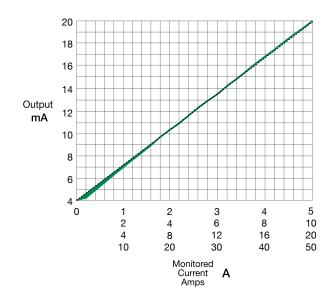
The TCSA Series is a loop-powered, linear output current transducer that provides an output that is directly proportional to the RMS AC current passing through the onboard toroid. The TCSA provides a 4 - 20mA output over a power supply range of 10 - 30VDC. Each unit is factory calibrated for monitoring in one of four ranges; 0-5, 0-10, 0-20, or 0-50A. The 0 - 5A range allows the use of external current transformers so loads up to 1200AC amps can be monitored.

Operation

The TCSA varies the effective resistance of its output in direct proportion to the current flowing in the monitored conductor. The unit is factory calibrated so that 0 amps provides a 4mA output and full span provides a 20mA output. Zero and span adjustments are provided for minor calibration adjustments in the field (if required).

Using an External Current Transformer (CT)

Select a 2VA, 0 to 5A output CT, rated for the current to be monitored. Select TCSA5. Pass one of the CT's secondary wire leads through the TCSA's toroid. Connect the CT's secondary leads together.



Features

- Monitors 0 50A in 4 ranges
- Loop powered from 10 to 30VDC
- Linear output from 4 20mA
- Zero & span adjustments
- Complete isolation between sensed current & control circuit

Protection Relays Current Monitoring Relays and Transducers



Accessories

TCSA SERIES



P1023-6 Mounting bracket

The 90° orientation of mounting slots makes installation/removal of modules quick and easy.



P1015-64 (AVVG 14/16)

Female Quick Connect These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

C103PM (AL) DIN Rail 35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.



P1023-20 DIN Rail Adapter

Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.

Specifications

Sensor

Туре

Monitored AC Current Ranges **4 Factory Calibrated Ranges Factory Calibration Maximum Allowable Current** Repeat Accuracy **Response Time** Burden **AC Line Frequency** 0 - 20A / 21 - 50A **Temperature Coefficient** Output **Type: Series Connection**

Range

Sensor Supply Voltage* **Momentary Voltage** Zero Adjust Span Adjust Adjustment Protection **Dielectric Breakdown Insulation Resistance** Polarity Mechanical Mounting Dimensions

Termination **Sensor Hole**

Environmental

Operating/Storage Temperature Humidity Weight

Toroid, through hole wiring, alternating current, monitored conductor must be properly insulated 0 - 50A

0 - 5A, 0 - 10A, 0 - 20A, or 0 - 50A ≤±2% of full scale Steady – 50A turns; Inrush – 300A turns for 10s ≤±0.25% of full scale under fixed conditions ≅ 300ms ≤ 0.5VA

20 - 100Hz / 30 - 100Hz ±0.05%/°C

Current directly proportional to monitored current 4 - 20mA 10 to 30VDC 40VDC for 1m ≅ 3.75 - 4.25mA 18mA - 22mA Mini-screw, 25-turn potentiometer

≥ 2000V RMS terminals to mounting surface \geq 100 M Ω Units are reverse polarity protected

Surface mount with one #10 (M5 x 0.8) screw **H** 50.8 mm (2.0"); **W** 50.8 mm (2.0"); **D** 44.5 mm (1.75") 0.25 in. (6.35 mm) male quick connect terminals 0.36 in. (9.14 mm) for up to #4 AWG (21.1 mm²) THHN wire

≈ 2.4 oz (68 g)

-30° to 60°C/-40° to 85°C 95% relative, non-condensing

*Minimum loop-power supply voltage equals the minimum sensor voltage 10VDC plus the voltage drop developed across all the other loop devices at 20mA.

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