AC CURRENT SENSOR with 0 to 5V output

- **Output 0 to 5 VDC**
- **Simple clamp on design**
- **Install while power on**
- **Top mounted terminals**

Model SC100 SERIES

Our split core current transducers convert a monitored AC current to a proportional DC voltage of 0 to 5 Volts.

Applications:

They are used to monitor motors, pumps, conveyors, machine tools and any electrical load where an analogue representation is required over a range of currents. All models are CSA approved and UL listed.

Description:

The SC100 comprises a current transformer, range selector, rectifier-filter and scaling circuit. Each sensor has three basic user selectable ranges. The 0-5 VDC output is available on two 6-32 screw terminals.

TECHNICAL DATA

Size: Units are 2.5"H x 2.6"W x 1.2"D with an integral mounting base 3.5" long and mounting centres of 3". The through hole is 0.85" square for up to #4/0 cable.

Operating temperature: -55C to +65C.

Case: ABS (Meets UL flammability rating 94V-0)

Accuracy: +/-1% of full scale when loaded with 1 megaohm.

Repeatability: +/-1% full scale

Frequency: Calibrated for 50-60 Hz and within +/-2% from 20-100 Hz.

Response time: 100 msec (10 to 90%)

Ripple: Less than 10 millivolts

Electrical Specifications:

Model	Range	Jumper Amps	Max Cont Amps	Max 6 sec ON 15 sec OFF	Max 1 sec ON 15 sec OFF
SC100-1	1 to 10 2 to 20 5 to 50	None Mid High	80 110 175	125 150 215	250 300 400
SC100-2	10/100 15/150 20/200	None Mid High	200 300 400	300 450 500	600 800 1000

ORDERING DATA

Model SC100-1 for ranges of 1 to 10, 2 to 20 and 5 to 50 amps full scale.

Model SC100-2 for ranges of 10 to 100, 15 to 150 and 20 to 200 amps full scale. Output is zero VDC between 0 amps and beginning of range and then proportional to input.

CURRENT

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