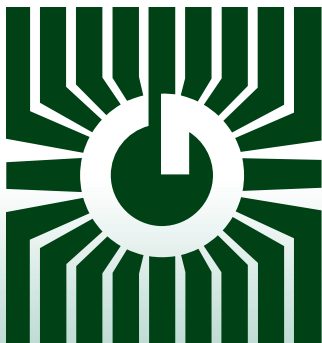


# GREYSTONE

ACCURACY BY DESIGN



## SPLIT CORE CURRENT SENSOR SC Series



### Precision Power control/sensing

#### FEATURES:

- Split Core
- Current and Voltage Output Models
- Self-powered and Loop-powered Models
- Up to 200 amps Input Current
- Small Compact Size

*Peace of mind  
through reliable  
power monitoring*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

# AC CURRENT SENSORS

## SC65X Series

### DESCRIPTION:

The SC65X Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output an analog signal to represent the load current. The SC650/651 require no external power as they are totally powered by induction from the AC line being monitored. The SC652 is loop-powered. The sensors are typically used to monitor motor operation and can be used to determine motor failure, belt loss, machine feed rates or tool wear.

### SPECIFICATION:

Measurement Range:.....	0-10, 20, 50, 100, 200 Amps (Model Specific)
Maximum Input Current:.....	100 Amps for 10/20/50 Amp models 200 Amps for 100 Amp model 250 Amps for 200 Amp model
Accuracy:.....	± 1% FSO (5-100% of range)
Signal Output:.....	SC650 - 0-5 Vdc SC651 - 0-10 Vdc SC652 - 4-20 mA
Sensor Power:.....	SC650/651 - Self-powered SC652 - 15 to 30 Vdc - Loop -powered
Insulation Class:.....	600 Vac, insulated conductors
Frequency:.....	50/60 Hz
Response Time:.....	200 mS Typical, 0-90 % (SC652 250 mS)
Output Load:.....	SC650/651 - 1 MΩ typical SC652 - 250 Ω typical - >600 Ω Max. @ 24Vdc
Loading Error:.....	SC650/651 - add 0.5% error with 100KΩ
Operating Temperature:.....	-15 to 50 °C (5 to 122 °F)
Operating Humidity:.....	5 to 90% RH non-condensing
Terminal Block:.....	14 to 22 AWG
Dimensions:.....	76 x 79 x 24.9 mm (3.0 x 3.1 x 0.98 in)
Sensor Aperture:.....	20.3 mm (0.8 in)
Enclosure Material:.....	ABS/PC, UL94 V-0
Agency Approvals:.....	cULus Listed

### FEATURES:

- No field adjustment necessary factory calibrated
- Average measurement is equivalent to True RMS for pure sine waves for the SC-652 series
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- Solid, reliable mounting method

### PRODUCT ORDERING INFORMATION

MODEL	Output Signal
SC650	0-5 Vdc, Self-powered
SC651	0-10 Vdc, Self-powered
SC652	4-20 mA, Loop-powered

CODE	Input Range
10	0-10 Amps (Not available on SC-651)
20	0-20 Amps
50	0-50 Amps
100	0-100 Amps
200	0-200 Amps

SC650	100	Current Sensor, 0-5 Vdc Output, 0-100 Amp Input
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

# AC CURRENT SENSORS

## SC675 Series

### DESCRIPTION:

The SC675 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output an analog signal to represent the load current. The SC675 is loop-powered and requires a 15 to 30 Vdc to power the device

The SC675 series features true RMS current measurement and are suitable to measure complex waveforms such as those found in VFD controlled loads. They are also suitable for accurate measurement of phase angled controlled or time proportional SCR controlled load current. The SC675 Series contain a precision RMS-to-DC converter circuit which will measure load current accurately for complex, distorted or noisy waveforms as opposed to "average reading" devices that will only measure pure sine waveforms accurately.

### SPECIFICATION:

Measurement Range:.....	See Ordering Information below
Maximum Input Current:.....	See Ordering Information below
Accuracy:.....	± 1% FSO
Signal Output:.....	4-20 mA
Sensor Power:.....	15 to 30 Vdc (Loop -powered)
Insulation Class:.....	600 Vac, insulated conductors
Frequency:.....	20-400 Hz
Response Time:.....	500 mS Typical, 0-90 %
Output Load:.....	250 Ω Typical
Maximum Load:.....	>600 Ω Max. @ 24 Vdc
Operating Temperature:.....	-15 to 50 °C (5 to 122 °F)
Operating Humidity:.....	5 to 90% RH non-condensing
Terminal Block:.....	14 to 22 AWG
Dimensions:.....	76 x 79 x 24.9 mm (3.0 x 3.1 x 0.98 in)
Sensor Aperture:.....	20.3 mm (0.8 in)
Enclosure Material:.....	ABS/PC, UL94 V-0
Agency Approvals:.....	cULus Listed

### FEATURES:

- Zero and Span Potentiometers
- True RMS for pure sine waves
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- Solid, reliable mounting method

### PRODUCT ORDERING INFORMATION

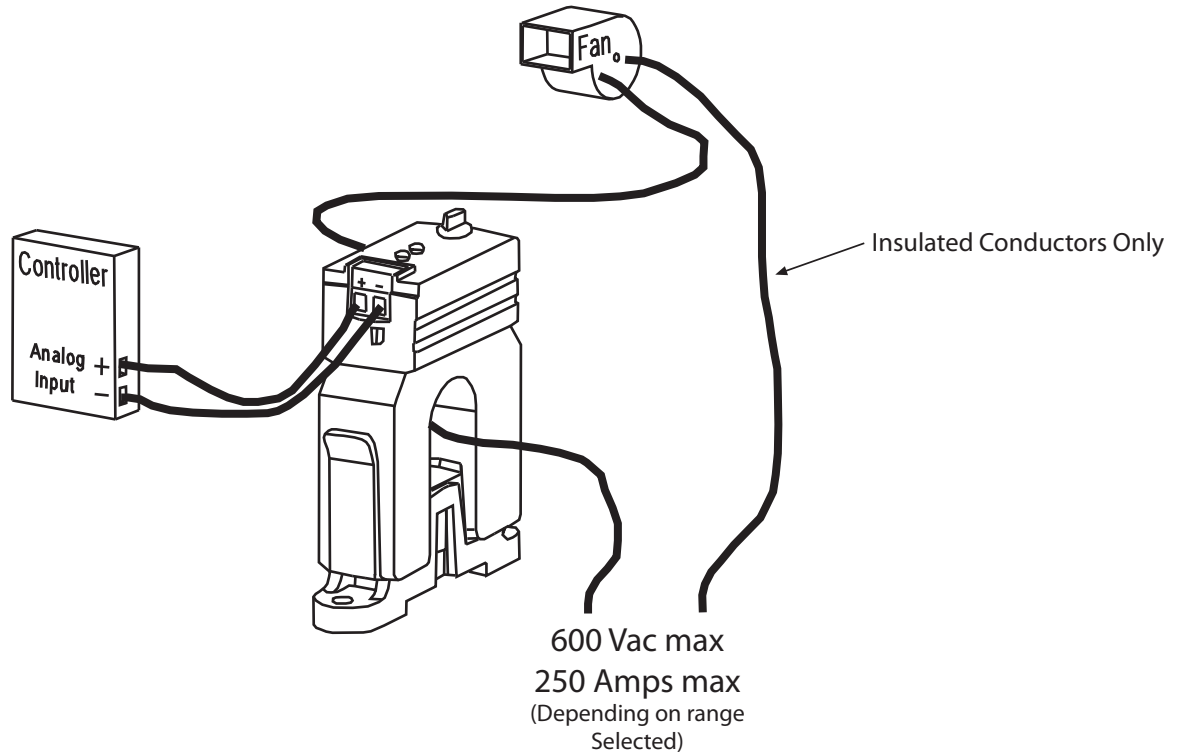
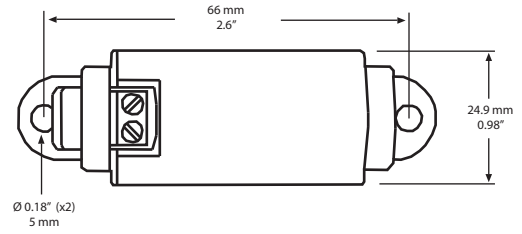
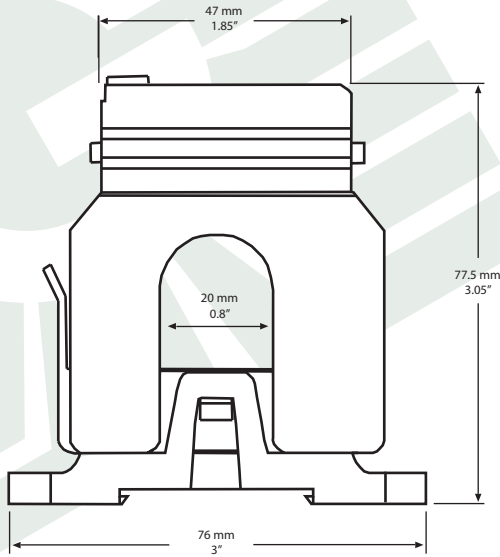
MODEL	Output Signal
SC675	4-20 mA, Loop-powered

CODE	Input Range	Max Input Current
2	0-2 Amps	10 Amps
5	0-5 Amps	15 Amps
10	0-10 Amps	30 Amps
20	0-20 Amps	60 Amps
50	0-50 Amps	150 Amps
100	0-100 Amps	200 Amps
200	0-200 Amps	300 Amps

SC675	100	Current Sensor, 4-20mA Output, 0-100 Amp Input
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# DIMENSIONS



## GREYSTONE

ACCURACY BY DESIGN

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RoHS COMPLIANT



*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers for Building Automation Management Systems.*

*We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.*

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