



# GREYSTONE ENERGY SYSTEMS INC

## SPLIT-CORE CURRENT SENSOR SC-652 Series

The SC-652 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output a 4-20 mA signal to represent the load current.

The SC-652 is loop-powered and requires a 15-30 Vdc supply.

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:.....**SC-652-R1:** 0-20/40/60 Amps  
**SC-652-R2:** 0-50/100/150 Amps  
**SC-652-200:** 0-200 Amps  
Maximum Input Current:.....**SC-652-R1:** 100 Amps Continuous  
**SC-652-R2:** 150 Amps Continuous  
**SC-652-200:** 250 Amps Continuous  
Accuracy:.....**SC-652-R1/R2:**  $\pm 2\%$  FSO (5-100% of range)  
**SC-652-200:**  $\pm 1\%$  FSO (5-100% of range)  
Signal Output:.....4-20 mA  
Sensor Power:.....15 to 30 Vdc  
Insulation Class:.....600 Vac, insulated conductors  
Frequency:.....50/60 Hz  
Response Time:.....250 mS Typical, 0-90 %  
Output Load:.....250  $\Omega$  typical  
Maximum Load:.....>600  $\Omega$  at 24 Vdc  
Operating Temperature:.....-15 to 60 °C (5 to 140 °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

### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description	
SC-652	Split-core Current Sensor, 4-20 mA Output	

CODE	Sensing Range	Maximum Input
R1	0-20/40/60 Amps - Switch Selectable	100 Amps Continuous
R2	0-50/100/150 Amps - Switch Selectable	150 Amps Continuous
200	0-200 Amps	250 Amps Continuous

SC-652 - R1

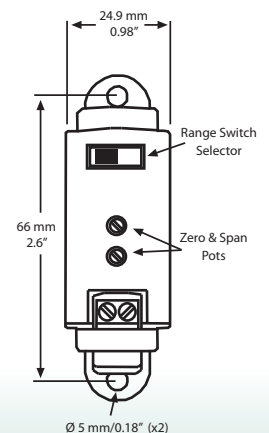
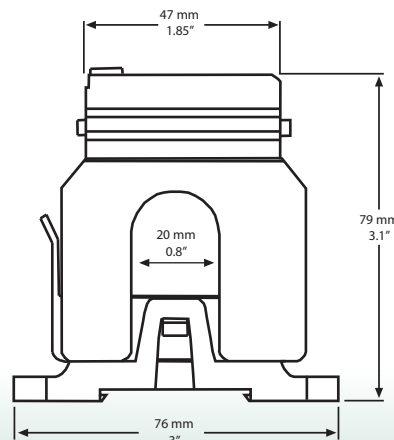
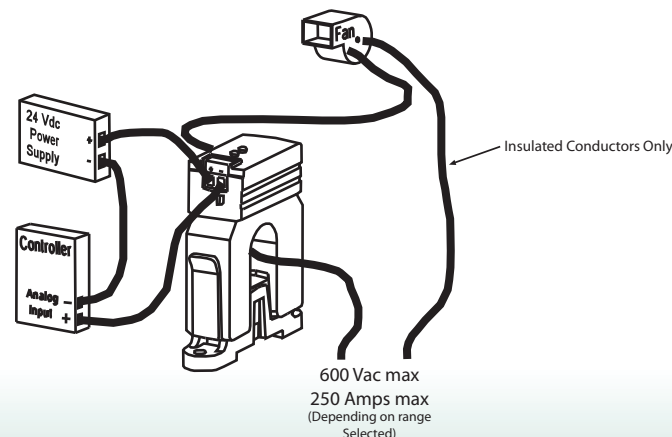
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

### TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The SC-652 series must be mounted in an electrical enclosure and has a removeable integral mounting tab to allow either screw mount to a surface or spring mount to a DIN rail.

The SC-652 series has a 2 wire connection to the Building Automation System.



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