



# GREYSTONE

ENERGY SYSTEMS INC

## SPLIT-CORE CURRENT SENSOR SC-651 Series

The SC-651 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output a 0-10 Vdc signal to represent the load current.

The SC-651 require no external power as they are totally powered by induction from the AC line being monitored.

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-651-R1:** 0-20/40/60 Amps  
**SC-651-R2:** 0-50/100/150 Amps  
**SC-651-200:** 0-200 Amps  
Maximum Input Current.... **SC-651-R1:** 100 Amps Continuous  
**SC-651-R2:** 150 Amps Continuous  
**SC-651-200:** 225 Amps Continuous  
Accuracy..... **SC-651-R1/R2:** ± 2% FSO (5-100% of range)  
**SC-651-200:** ± 1% FSO (5-100% of range)  
Signal Output ..... 0-10 Vdc  
Sensor Power ..... Self-powered  
Insulation Class ..... 600 Vac, insulated conductors  
Frequency..... 50/60 Hz  
Response Time ..... 200 mS Typical, 0-90 %  
Output Load..... 1 MΩ typical  
Loading Error..... add 0.5% error with 100KΩ  
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

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
SC-651	Split-core Current Sensor, 0-10 Vdc 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	225 Amps Continuous

### TYPICAL INSTALLATION:

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

The SC-651 series must be mounted in an electrical enclosure and has an removeable integral mounting tab to allow either screw mount to a surface or spring mount to a DIN rail.

The SC-651 series has a 2 wire connection to the Building Automation System.

