Ζ S Σ ш S X S <u>א</u> Z ш

SPLIT CORE CURRENT SENSOR SC-6XX Series

Precision Power control/sensing

FEATURES:

- Split Core
- 0-5, 0-10 Vdc or 4-20 mA Output
- Selectable or Fixed Range Models
- Self-powered and Loop-powered Models
- Up to 200 amps Input Current
- Small Compact Size

Peace of mind through reliable current monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

AC CURRENT SENSORS SC-650 Series

DESCRIPTION:

The SC-650 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output a 0-5 Vdc signal to represent the load current.

The SC-650 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:..... Maximum Input Current:.....

Accuracy:
Signal Output:
Sensor Power:
Insulation Class:
Frequency:
Response Time:
Output Load:
Loading Error:
Operating Temperature:
Operating Humidity:
Terminal Block:
Dimensions:
Sensor Aperture:
Enclosure Material:
Agency Approvals:
J / 11

Up to 200 Amps - See ordering information . No field adjustment necessary SC-650-R1: 100 Amps Continuous SC-650-R2: 150 Amps Continuous SC-650-200: 250 Amps Continuous ± 2% FSO (10-100% of range) 0-5 Vdc Self-powered 600 Vac, insulated conductors 50/60 Hz 200 mS Typical, 0-90 % 1 MΩ typical add 0.5% error with $100K\Omega$ -15 to 60 °C (5 to 140 °F) 5 to 90% RH non-condensing 14 to 22 AWG 76 x 79 x 24.9 mm (3.0 x 3.1 x 0.98 in) 20.3 mm (0.8 in) ABS/PC, UL94 V-0 cULus Listed

FEATURES:

- factory calibrated
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- Solid, reliable mounting method

PRODUCT ORDERING INFORMATION

MO	DEL	Output Signal			
SC-650		0-5 Vdc, Self-powered			
		CODE	Sensing Range	Maximum Input Current	
		R1 R2 200	0-10/20/50 Amps - Switch Selectable 0-50/100/150 Amps - Switch Selectable 0-200 Amps	100 Amps Continuous 150 Amps Continuous 250 Amps Continuous	
Ņ		\downarrow			

SC-650 - R1

Split Core Current Sensor, 0-5 Vdc Output, 0-10/20/50 Amp Input



AC CURRENT SENSORS SC-651 Series

DESCRIPTION:

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. SChe 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:..... Maximum Input Current:.....

Up to 200 Amps - See ordering information . No field adjustment necessary SC-651-R1: 100 Amps Continuous SC-651-R2: 150 Amps Continuous SC-651-200: 225 Amps Continuous ± 2% FSO (5-100% of range) 0-10 Vdc Self-powered 600 Vac, insulated conductors 50/60 Hz 200 mS Typical, 0-90 % $1 M\Omega$ typical add 0.5% error with $100K\Omega$ -15 to 60 °C (5 to 140 °F) 5 to 90% RH non-condensing 14 to 22 AWG 67 x 68.6 x 24.1 mm (2.65 x 2.7 x 0.95 in) 20.3 mm (0.8 in) ABS/PC, UL94 V-0 cULus Listed

FEATURES:

- factory calibrated
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- Solid, reliable mounting method

PRODUCT ORDERING INFORMATION

MODEL	. Output	Output Signal			
SC-651	0-10 Vd	0-10 Vdc, Self-powered			
	CODE	Sensing Range	Maximum Input Current		
	R1 R2 200	0-20/40/60 Amps - Switch Selectable 0-50/100/150 Amps - Switch Selectable 0-200 Amps	100 Amps Continuous 150 Amps Continuous 225 Amps Continuous		

SC-651 - R1

Current Sensor, 0-10 Vdc Output, 0-20/40/60 Amp Input



AC CURRENT SENSORS SC-652 Series

DESCRIPTION:

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 Vdc 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:..... Maximum Input Current:.....

Accuracy:
Signal Output:
Sensor Power:
Insulation Class:
Frequency:
Response Time:
Output Load:
Maximum Load:
Operating Temperature:
Operating Humidity:
Terminal Block:
Dimensions:
Sensor Aperture:
Enclosure Material:
Agency Approvals:

Up to 200 Amps - See ordering information . No field adjustment necessary SC-652-R1: 100 Amps Continuous SC-652-R2: 150 Amps Continuous SC-652-200: 250 Amps Continuous ± 2% FSO (5-100% of range) 4-20 mA 15 to 30 Vdc (Loop-powered) 600 Vac, insulated conductors 50/60 Hz 250 mS Typical, 0-90 % 250 Ω typical $<600 \Omega$ at 24 Vdc -15 to 60 °C (5 to 140 °F) 5 to 90% RH non-condensing 14 to 22 AWG 67 x 68.6 x 24.1 mm (2.65 x 2.7 x 0.95 in) 20.3 mm (0.8 in) ABS/PC, UL94 V-0 cULus Listed

FEATURES:

- factory calibrated
- Average measurement is equivalent to 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			
SC-652		4-20 mA , Loop-powered			
		CODE R1 R2	Sensing range 0-20/40/60 Amps - Switch Selectable 0-50/100/150 Amps - Switch Selectable	Maximum Input Current 100 Amps Continuous 150 Amps Continuous	
		200	0-200 Amps	250 Amps Continuous	

SC-652 - R1

Current Sensor, 4-20 mA Output, 0-20/40/60 Amp Input





AC CURRENT SENSORS SC-675 Series

DESCRIPTION:

The SC-675 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 SC-675 is loop-powered and requires 15 to 30 Vdc to power the device

The SC-675 series features True RMS current measurement 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 currents. The SC-675 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 accurately measure pure sine waveforms.

SPECIFICATION:

Measurement Range:
Maximum Input Current:
Accuracy:
Signal Output:
Sensor Power:
Insulation Class:
Frequency:
Response Time:
Output Load:
Maximum Load:
Operating Temperature:
Operating Humidity:
Terminal Block:
Dimensions:
Sensor Aperture:
Enclosure Material:
Agency Approvals:

See Ordering Information below See Ordering Information below \pm 2% FSO (5-100% of range) 4-20 mA 15 to 30 Vdc (Loop -powered) 600 Vac, insulated conductors 20-400 Hz 500 mS Typical, 0-90 % 250Ω typical >600 Ω Max. @ 24 Vdc -15 to 50 °C (5 to 122 °F) 5 to 90% RH non-condensing 14 to 22 AWG 66 x 67.3 x 24.9 mm (2.6 x 2.65 x 0.98 in) 0.8 in (20.3 mm) ABS/PC, UL94 V-0 cULus Listed

FEATURES:

- 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 SC-675		Output Signal 4-20 mA, Loop-powered			
		CODE	Sensing Range	Maximum Input Current	
		2 5 R1 R2 200	0-2 Amps 0-5 Amps 0-10/20/50 Amps - Jumper Selectable 0-50/100/150 Amps - Jumper Selectable 0-200 Amps	10 Amps Continuous 15 Amps Continuous 3X Range Selected Continuous 2X Range Selected Continuous 300 Amps Continuous	
, 		\downarrow			

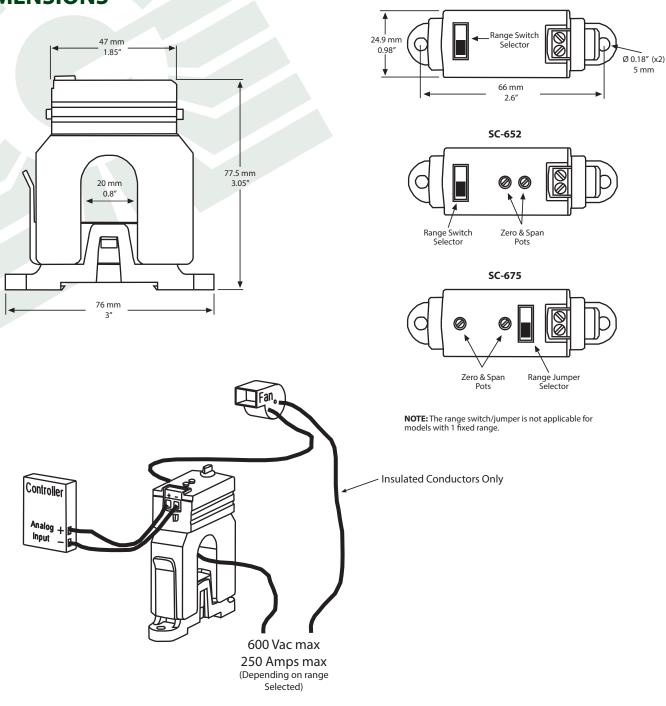
SC-675 - R1

Current Sensor, 4-20mA Output, 0-10/20/50 Amp Input



DIMENSIONS

SC-650/651





Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com



Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge 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.