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

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 RangeUp to 200 Amps - See ordering information
Maximum Input Current SC-650-R1: 100 Amps Continuous
SC-650-R2: 150 Amps Continuous
SC-650-200: 250 Amps Continuous
Accuracy ± 2% FSO (10-100% of range)
Signal Output0-5 Vdc
Sensor Power Self-powered
Insulation Class600 Vac, insulated conductors
Frequency50/60 Hz
Response Time 200 mS Typical, 0-90 %
Output Load1 MΩ typical
Loading Erroradd 0.5% error with 100KΩ
Operating Temperature15 to 60 °C (5 to 140 °F)
Operating Humidity 5 to 90% RH non-condensing
Terminal Block14 to 22 AWG
Dimensions
(3.0 x 3.1 x 0.98 in)
Sensor Aperture20.3 mm (0.8 in)
Enclosure Material ABS/PC, UL94 V-0
Agency ApprovalscULus Listed

FEATURES:

- No field adjustment necessary factory calibrated
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- · Solid, reliable mounting method

PRODUCT ORDERING INFORMATION

MODEL	Output Signal 0-5 Vdc, Self-powered			
SC-650				
	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	
	200	U-200 Amps	230 Amps Continuous	

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:

	Up to 200 Amps - See ordering information SC-651-R1: 100 Amps Continuous SC-651-R2: 150 Amps Continuous
	SC-651-200: 225 Amps Continuous
Accuracy	
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	
Loading Error	
Operating Temperature	15 to 60 °C (5 to 140 °F)
Operating Humidity	5 to 90% RH non-condensing
Terminal Block	
Dimensions	67 x 68.6 x 24.1 mm
	(2.65 x 2.7 x 0.95 in)
Sensor Aperture	20.3 mm (0.8 in)
Enclosure Material	
Agency Approvals	
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FEATURES:

- No field adjustment necessary factory calibrated
- Input / Output isolation via current transformer
- · Solid-state reliability
- Small compact size
- · Solid, reliable mounting method

PRODUCT ORDERING INFORMATION

MODE	L Outpu	Output Signal		
SC-65	1 0-10 Vc	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	
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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:

	Up to 200 Amps - See ordering information SC-652-R1: 100 Amps Continuous SC-652-R2: 150 Amps Continuous
	SC-652-200: 250 Amps Continuous
Accuracy	
Signal Output	4-20 mA
Sensor Power	15 to 30 Vdc (Loop-powered)
Insulation Class	600 Vac, insulated conductors
Frequency	50/60 Hz
Response Time	250 mS Typical, 0-90 %
Output Load	250 Ω typical
Maximum Load	<600 Ω at 24 Vdc
Operating Temperature	15 to 60 °C (5 to 140 °F)
Operating Humidity	
Terminal Block	
Dimensions	
	(2.65 x 2.7 x 0.95 in)
Sensor Aperture	
Enclosure Material	ABS/PC, UL94 V-0
Agency Approvals	
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FEATURES:

- No field adjustment necessary 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

SC-652 4-20 mA , Loop-powered CODE Sensing range Maximum Input Current R1 0-20/40/60 Amps - Switch Selectable 100 Amps Continuous	Output Signal			
R1 0-20/40/60 Amps - Switch Selectable 100 Amps Continuous		SC-652 4-20 mA , Loop-powered		
R1 0-20/40/60 Amps - Switch Selectable 100 Amps Continuous	Maximum Input Current	CODE Sensing range		
R2 0-50/100/150 Amps - Switch Selectable 150 Amps Continuous 200 0-200 Amps 250 Amps Continuous	able 150 Amps Continuous	R2 0-50/100/150 Amps - Switch Selectable		

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:

	See Ordering Information below
	See Ordering Information below
Accuracy	± 2% FSO (5-100% of range)
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	66 x 67.3 x 24.9 mm
	(2.6 x 2.65 x 0.98 in)
Sensor Aperture	
Enclosure Material	ABS/PC, UL94 V-0
Agency Approvals	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

DEL 675			
	CODE	Sensing Range 0-2 Amps	Maximum Input Current
	5 R1 R2 200	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
			2X Range Selected Continuous 2X Range Selected Continuous 300 Amps Continuous

SC-675 - R1 Current Sensor, 4-20mA Output, 0-10/20/50 Amp Input

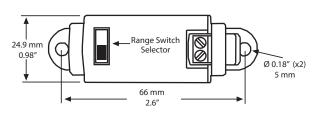


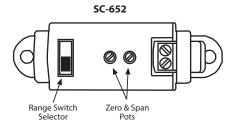


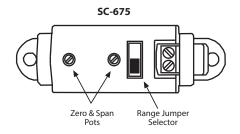






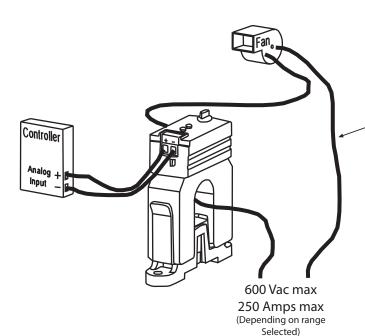






NOTE: The range switch/jumper is not applicable for models with 1 fixed range.

Insulated Conductors Only





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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.

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