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SOLID CORE CURRENT SENSOR CS-6XX Series

Precision Power control/sensing

FEATURES:

- Solid 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 CS-650 Series

DESCRIPTION:

The CS-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 CS-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:

Up to 200 Amps - See ordering information . No field adjustment necessary, CS-650-R1: 100 Amps Continuous CS-650-R2: 150 Amps Continuous CS-650-200: 250 Amps Continuous ± 2% FSO (5-100% 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 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 Signal			
CS-650	0-5 Vdc, Self-powered			
	CODE R1 R2 200	Sensing Range 0-10/20/50 Amps - Switch Selectable 0-50/100/150 Amps - Switch Selectable 0-200 Amps	Maximum Input Current 100 Amps Continuous 150 Amps Continuous 250 Amps Continuous	

CS-650 - R1

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



AC CURRENT SENSORS CS-651 Series

DESCRIPTION:

The CS-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 CS-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:.... 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:

Up to 200 Amps - See ordering information . No field adjustment necessary, CS-651-R1: 100 Amps Continuous **CS-651-100:** 150 Amps Continuous CS-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

MODE	L Output	Output Signal			
CS-65	1 0-10 Vd	c, Self-powered			
	CODE	Sensing Range	Maximum Input Current		
	R1 100 200	0-10/20/50 Amps - Switch Selectable 0-100 Amps 0-200 Amps	100 Amps Continuous 150 Amps Continuous 225 Amps Continuous		
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CS-651 - R1

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



AC CURRENT SENSORS CS-652 Series

DESCRIPTION:

The CS-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 CS-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, CS-652-R1: 100 Amps Continuous CS-652-R2: 150 Amps Continuous **CS-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			
CS-652		4-20 mA , Loop-powered			
		CODE R1	Sensing Range 0-10/20/50 Amps - Switch Selectable	Maximum Input Current 100 Amps Continuous	
		R2 200	0-50/100/150 Amps - Switch Selectable 0-200 Amps	150 Amps Continuous 250 Amps Continuous	
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CS-652 - R1

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



AC CURRENT SENSORS CS-675 Series

DESCRIPTION:

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

The CS-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 CS-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 complex waves
- Input / Output isolation via current transformer
- Solid-state reliability
- Small compact size
- Solid, reliable mounting method

PRODUCT ORDERING INFORMATION

MODEL CS-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 100 Amps Continuous 150 Amps Continuous 250 Amps Continuous	
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CS-675 - R1

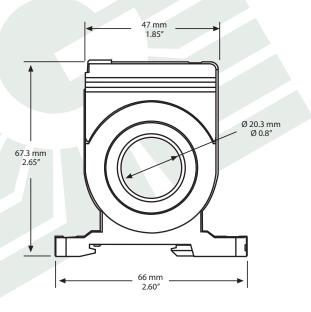
Current Sensor, 4-20mA Output, 0-10/20/50 Amp Input



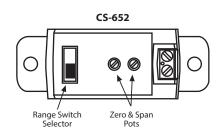
DIMENSIONS

Controller

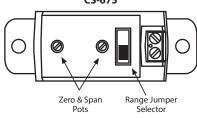
Analog + Input _



CS-650/651



CS-675



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

Insulated Conductors Only

V.01/14



ENERGY SYSTEMS INC

600 Vac max 200 Amps max

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

GREYSTON

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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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