



# GREYSTONE

## ENERGY SYSTEMS INC

# CURRENT SENSOR

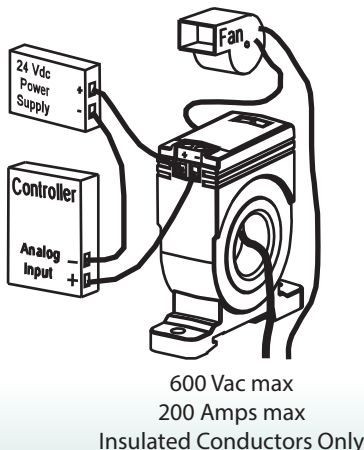
## CS-675 Series

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.....	<b>CS-675-2:</b> 0-2 Amps <b>CS-675-5:</b> 0-5 Amps <b>CS-675-R1:</b> 0-10/20/50 Amps <b>CS-675-R2:</b> 0-50/100/150 Amps <b>CS-675-200:</b> 0-200 Amps
Maximum Input Current.....	<b>CS-675-2:</b> 10 Amps continuous <b>CS-675-5:</b> 15 Amps continuous <b>CS-675-R1:</b> 3x range continuous <b>CS-675-R2:</b> 2x range continuous <b>CS-675-200:</b> 250 Amps continuous
Accuracy .....	<b>CS-675-R1/R2:</b> $\pm 2\%$ FSO (5-100% of range) <b>CS-675-2, 5 &amp; 200:</b> $\pm 1\%$ 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 $\Omega$ typical
Maximum Load .....	>600 $\Omega$ @ 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.....	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.....	ABS/PC, UL94 V-0
Agency Approvals.....	cULus Listed



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
<b>CS-675</b>	Solid-core Current Sensor, 4-20 mA Output

CODE	Sensing Range	Maximum Input
<b>2</b>	0-2 Amps	10 Amps Continuous
<b>5</b>	0-5 Amps	15 Amps Continuous
<b>R1</b>	0-10/20/50 Amps - Jumper Selectable	3x Range Continuous
<b>R2</b>	0-50/100/150 Amps - Jumper Selectable	2x Range continuous
<b>200</b>	0-200 Amps	250 Amps Continuous

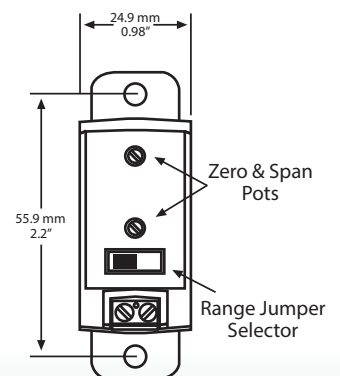
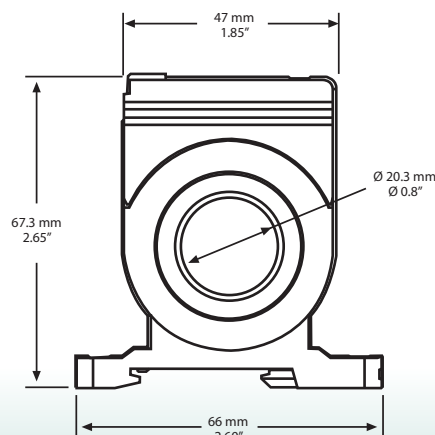
Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

### TYPICAL INSTALLATION:

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

The CS-675 series must be mounted in an electrical enclosure and has an integral mounting tab to allow either screw mount to a surface or spring mount to a DIN rail.

The CS-675 series has a 2 wire connection to the Building Automation System.



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