AMPX100

100 Amp Non-Invasive Current Sensor

5v S-out S

Getting Started

Insert wire here to read amperage.

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⏚ 5v S-out S⏚

AMPX100
100 Amp Current Sensor

Calibration Info
Voltage @0Amps: 2.4984v
Voltage @100Amps: 4.0864v

Manufactured in Canada   SN: AMPX−100−3141

5 V

2.498 V

Here you'll find your calibration values. Each sensor is factory calibrated.

This QR Code can be scanned for a more detailed calibration report.
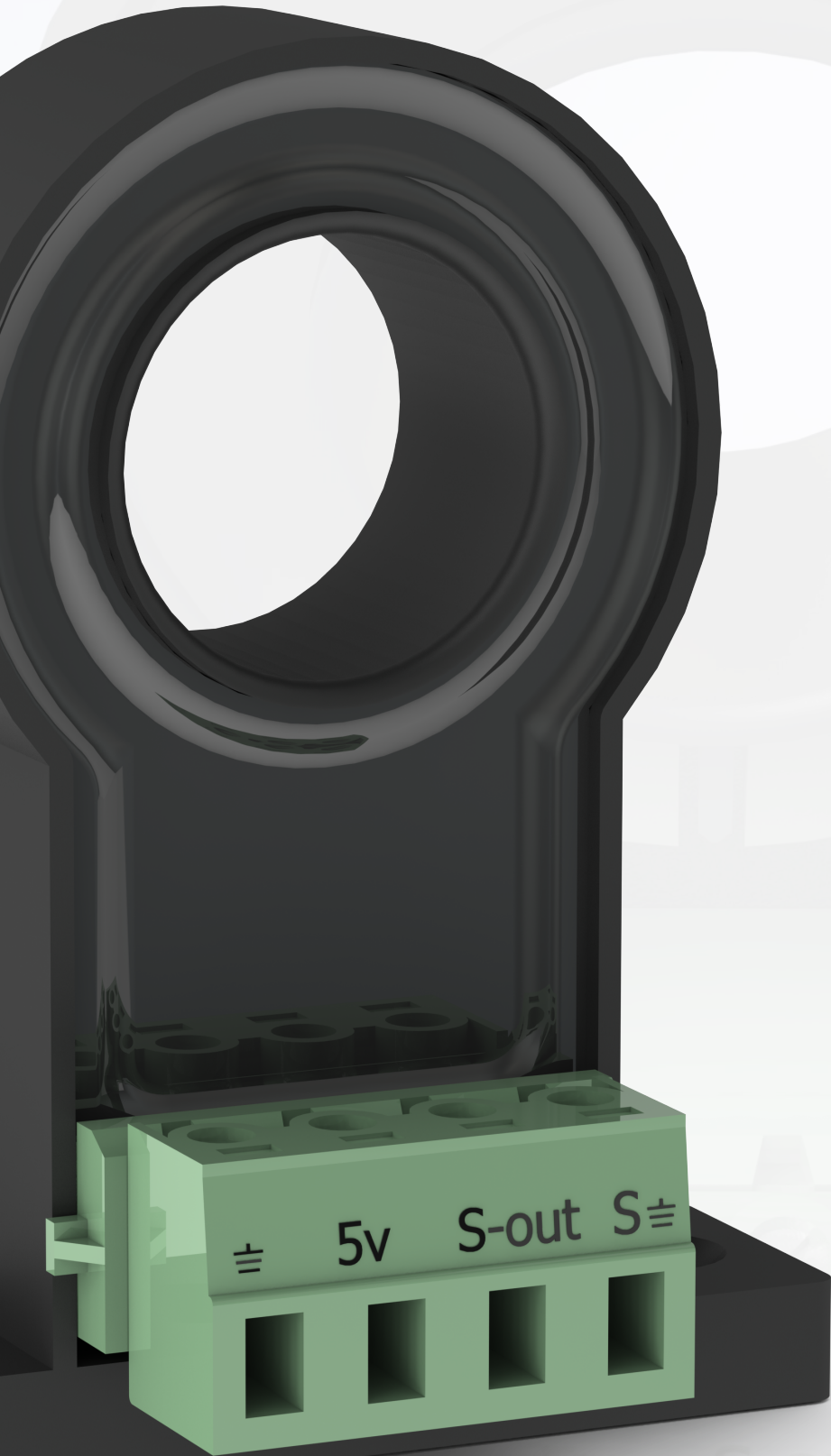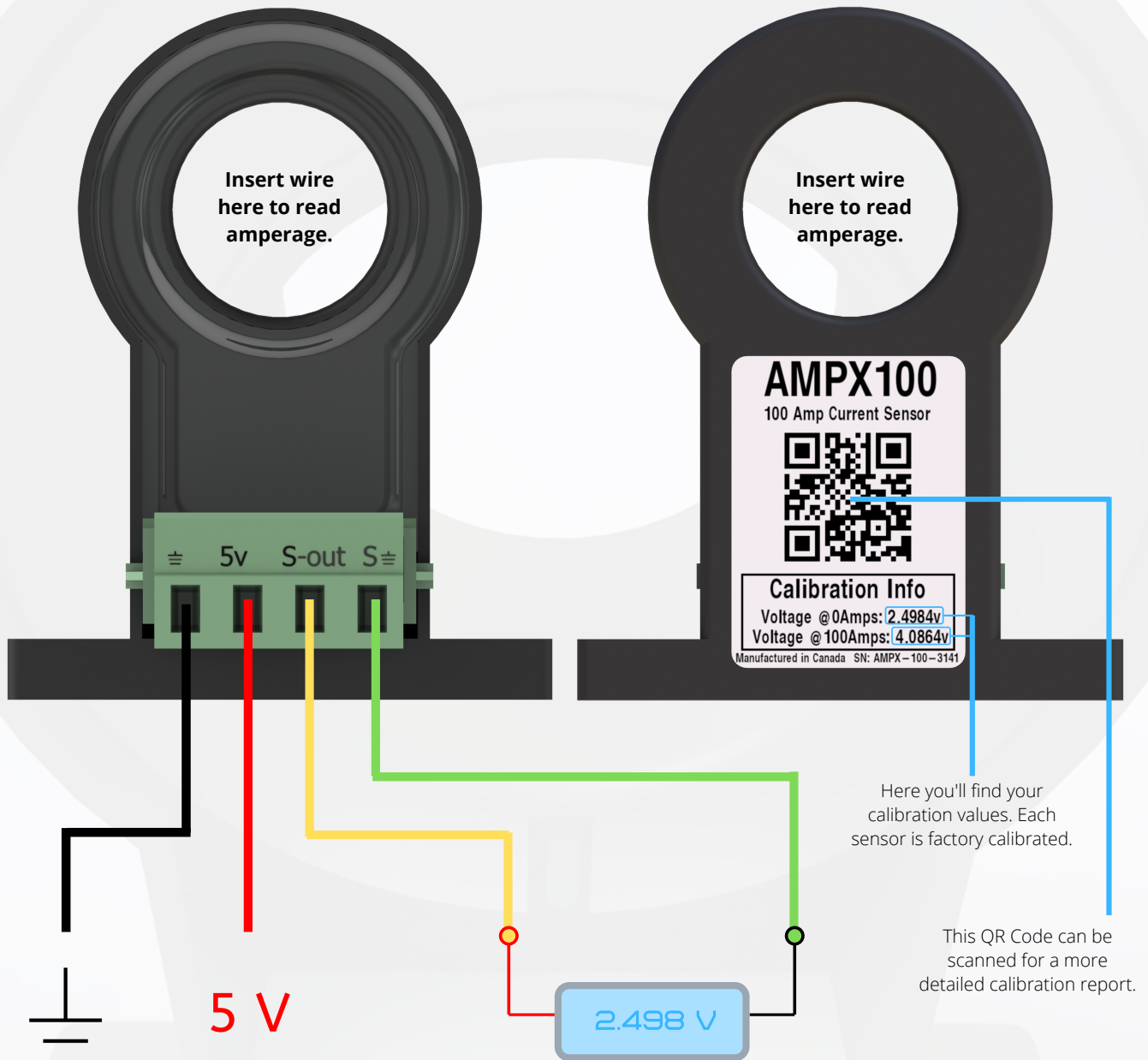
Connect ⏚ to ground on your power supply.

Connect **5 V** to a 5 Volt output on your power supply.

S-out (output signal) can be read by a voltmeter*. Output will range from 0 to 5 V, 2.5 V being 0 Amps. Refer to the calibration values on the back of the device to determine what voltage translates to a specific amperage reading.

S⏚ (signal ground) is electrically the same as the ⏚ connection and can be used as such, but by connecting your voltmeter* negative lead to this instead of the ⏚ connection you can help to mitigate potential interference.

*A voltmeter is just one option to read the output signal. There are many products that can read the output voltage and automatically do the calculations to show the output as amperage. The **AMPX-100** was specifically designed with the ***FlexQ5*** by ***FlexSCADA*** in mind. For more information on connecting the AMPX-100 to your FlexQ5, please refer to your FlexQ5 manual.
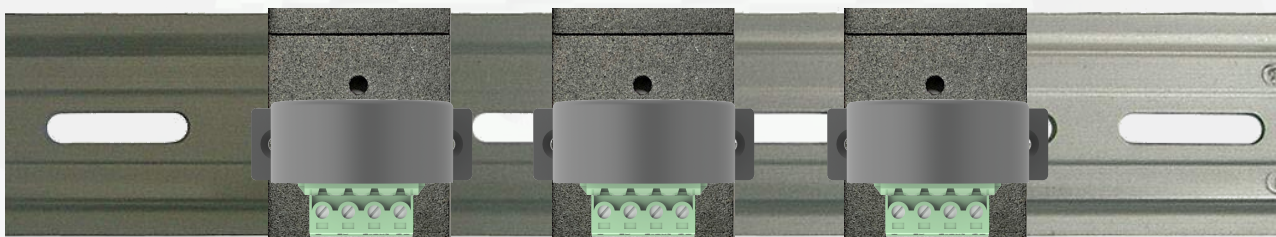
Mounting Options
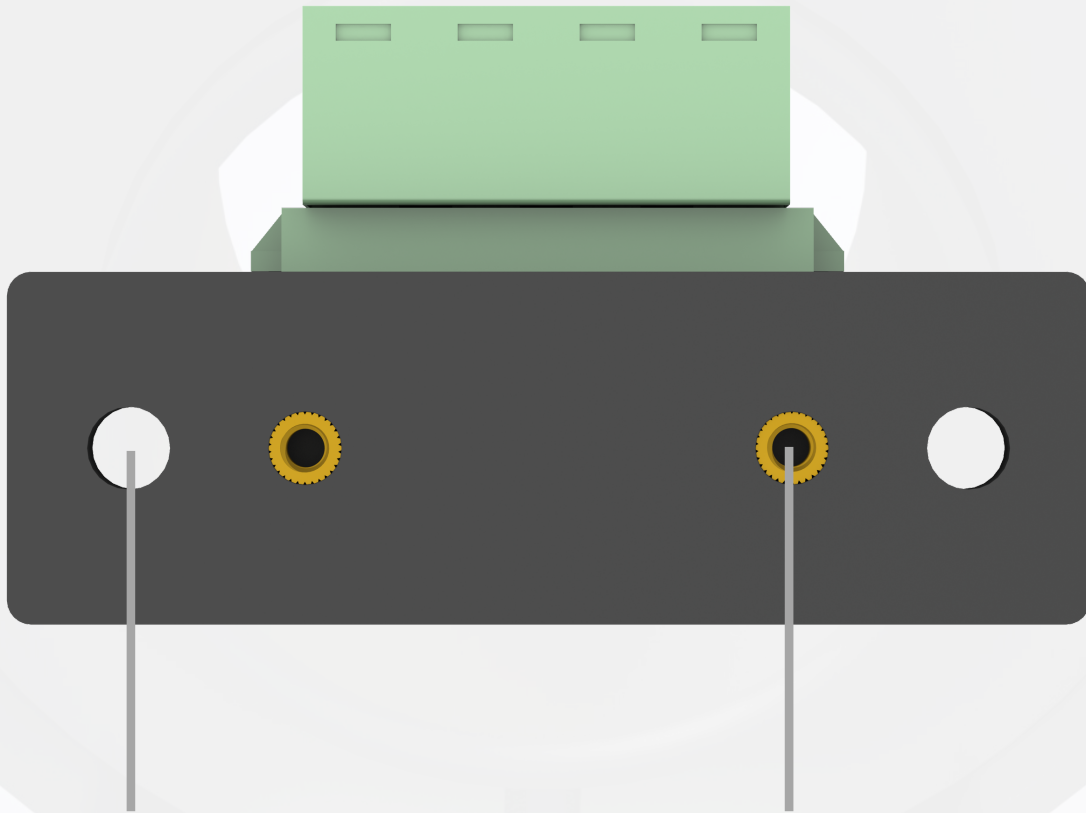
The **AMPX-100** has two through-holes available for screw mounting.

The included Din Rail Mount can be attached here with provided M3 screws.

Example of sensors mounted on a 35mm Din Rail:

Specifications

AMPX-100	
Dimensions	44.5 x 9 x 42.5 mm
Weight	46 g
Supply Voltage	5.0 V
Supply Current	15 mA
Quiescent Output Voltage	2.485 to 2.515 V (2.5 V Typical)
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Mounting Options	Screw Down or Din Rail Mountable
Enclosure Materials	Flame Retardant ABS & Epoxy Potted
Sensing Range*	±0 to 100A
Accuracy	±0.1A
Output Voltage Range	0 - 5 V

*Sensors are factory calibrated between 0-100A, however the sensor is capable of measuring up to 150A without damaging the sensor. Accuracy beyond 100A is not guaranteed.

Specifications are subject to change. Our products are sold with a limited warranty which can be viewed at: flexscada.com/cs/warranty