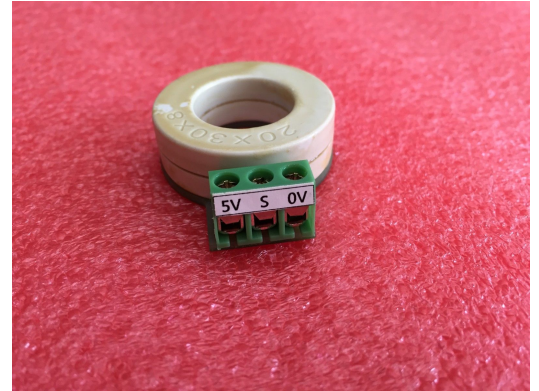


100A Non Invasive Current Sensor Manual

Specifications

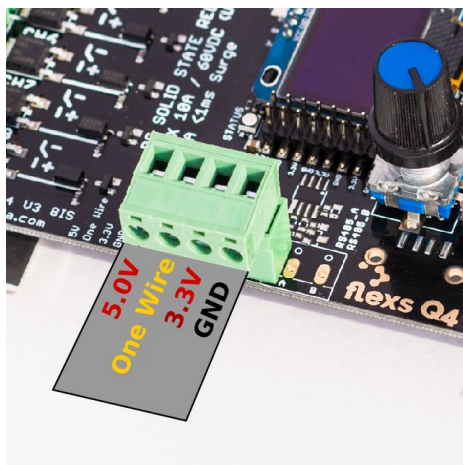
Sensing Range: DC: +/- 100A, AC: 75A
Accuracy: approx $\pm 0.1A$ from -75A to +75A*
Environment: -40 to +85C (95% RH, Non Condensing)
Supply Voltage: 4.5-6 V
Zero Amperage Output: $\frac{1}{2}$ VCC
Requires no external components



Connection Details

The Flexs Q4 features an onboard 5V supply which can be used to power these sensors

Current Sensor	Flexs Q4
5V	-> 5.0V
Signal (S)	-> Analog Input (1-8)
0V (GND)	-> GND



After the sensors have been connected you will need to configure the input channel that you connected the sensor to.

The following settings can be used as a fairly accurate estimation however you may need to adjust them slightly based on the calibration report received with your sensor.

Analog Config: (Save and apply configuration after changes)

Gain: 12

Multiplier: 0.0000382490

Offset: -159.7861022949

*May require calibration, if sensor is in motion resolution will be reduced to to interference by the earth's magnetic field

If you are getting erratic readings you may want to enable averaging/filtering on the Flexs Q4, this is especially important on PWM or MPPT solar chargers where the current changes rapidly.

An individual test report is accompanied with each sensor purchase.