

SparkFun Coulomb Counter Breakout - LTC4150

BOB-12052 ROHS ✔ #

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Description: Odometers are extremely useful for cars, they tell you how far you have gone, wouldn't it be nice if you were able to have a device that does the same for electrical current? The LTC4150 SparkFun Coulomb Counter Breakout is here to be your odometer for current. If you are wondering: a coulomb is defind as, to put it simply, one amp for one second. This breakout is capable of constantly monitoring the current your sensor is using, is able to add it up, and will give you a pulse each time a given amount of amp-hours have been used. When used effectively and if you start with a full battery, you'll always know exactly how much of it is left!

At one end of the Coulomb Counter Breakout are headers labeled IN and OUT. Connect your battery or power supply to the IN header or JST battery connector (they're identical), and connect the OUT header to your project. At the other end of the Coulomb Counter you'll find a header with six pins. These are the pins you'll need to connect to your microcontroller and include VIO (Voltage Input), INT (Interrupt), POL (Polarity), GND (Ground), CLR (Clear), and SHDN (Shutdown). Simply install this breakout out between your power source and your circuit, that way all the current your circuit uses needs to pass through the Coulomb Counter to be measured.

Features:

• Operating Voltage: 2.7V - 8.5V

· Operating Current: 1A

· Indicates Charge Quantity and Polarity

• ±50mV Sense Voltage Range

- 32.55Hz/V Charge Count Frequency
- 1.5µA Shutdown Current