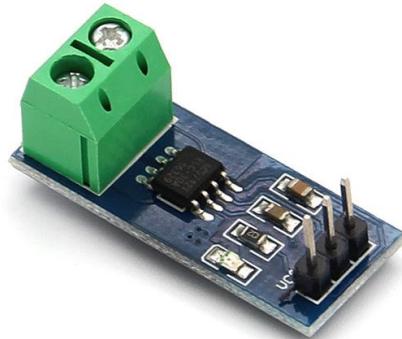


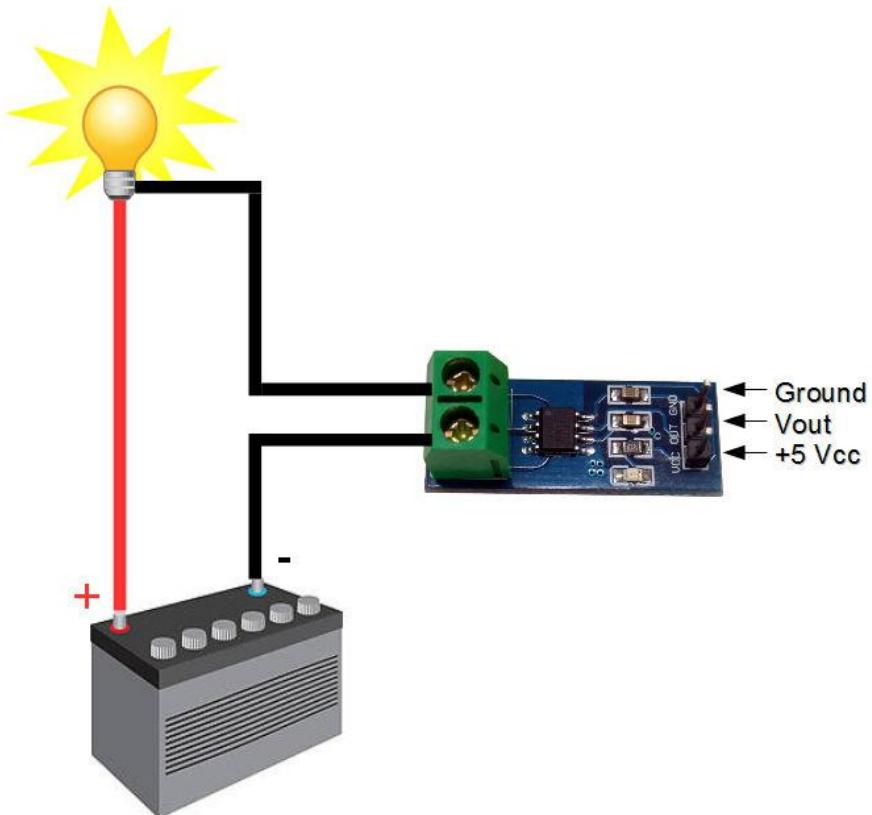


ARDUINO ACS712 Current Sensor Module 30A

User Manual



Hook UP Diagram:



Example Code:

```
// ACS712 Demo Sketch  
//  
  
// Select sensitivity for appropriate ACS712 version:  
//int Sens = 185;      // Sensitivity in mV/A for the 5A version  
//int Sens = 100;       // Sensitivity in mV/A for the 20A version  
int Sens = 66;         // Sensitivity in mV/A for the 30A version
```

```
const int analogIn = A0; // Analog input pin

int OffsetVoltage = 2500; // 0 Current offset Voltage in mV @ 0 amps

int RawValue= 0; // Init result variables
double Voltage = 0; //
double Amps = 0; //

void setup(){
    Serial.begin(9600); // Start serial monitor
}

void loop(){

RawValue = analogRead(analogIn); // Read voltage from ACS712
Voltage = (RawValue / 1024.0) * 5000; // Convert to mV
Amps = ((Voltage - OffsetVoltage) / Sens); // Convert to amps

Serial.print("A/D Read Value = " ); // A/D read value
Serial.print(RawValue); //

Serial.print("\t mV = "); // ACS712 Output voltage
Serial.print(Voltage,3); //

Serial.print("\t Amps = "); // Current measured
Serial.println(Amps,3); //

delay(2500); // Wait a bit then do it again
}
```