

```
/*  
50A Current Sensor(AC/DC)(SKU:SEN0098) Sample Code  
This code shows you how to get raw datas from the sensor through Arduino and  
convert the raw datas to the value of the current according to the datasheet;  
Smoothing algorithm (http://www.arduino.cc/en/Tutorial/Smoothing) is used to make  
the outputting current value more reliable;  
Created 27 December 2011  
By Barry Machine  
Version:0.2  
*/
```

```
const int numReadings = 30;  
float readings[numReadings]; // the readings from the analog input  
int index = 0; // the index of the current reading  
float total = 0; // the running total  
float average = 0; // the average  

```