**Offset sketch**

void setup() {

// initialize serial communication at 9600 bits per second:

Serial.begin(9600);

}

// the loop routine runs over and over showing the voltage on A0

void loop() {

// read the input on analog pin 0:

int sensorValue = analogRead(A0);

// Convert the analog reading (which goes from 0 - 1023) to a voltage (0 - 5V):

float voltage = sensorValue \* (5.0 / 1023.0);

// print out the value you read:

Serial.println(voltage);

delay(300);

}