

# KEYES KY0037 MICROPHONE SOUND SENSOR DEVELOPMENT BOARD

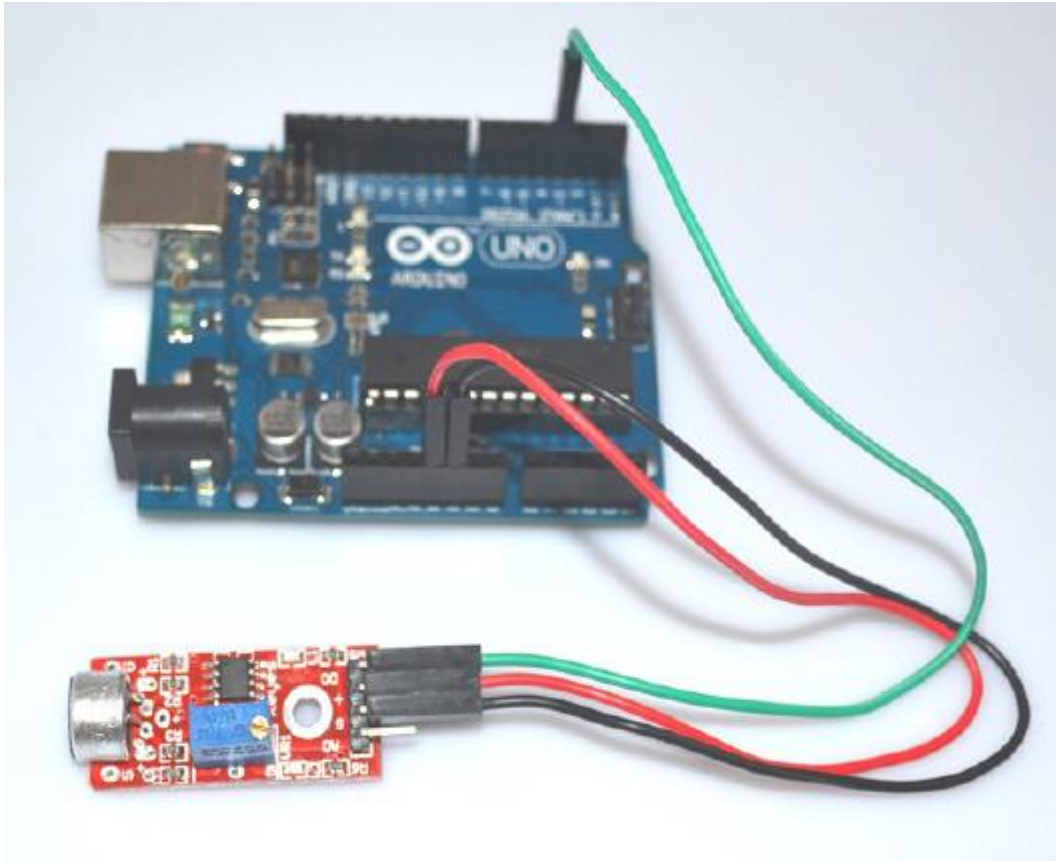
The sound sensor module has 2-outputs:

1. AO, Analog output, real-time output microphone voltage signal.
2. DO, When the sound intensity reaches the threshold, it is outputting the high and low signal.

[threshold – it can adjusted sensitivity by potentiometer]

Feature:

2. It have 3mm mounting screw holes
3. Using 5V DC power for supply
4. It have analog output
5. The outputting is with threshold turnover
6. High sensitivity microphone
7. It have power light
8. Comparator output has power light

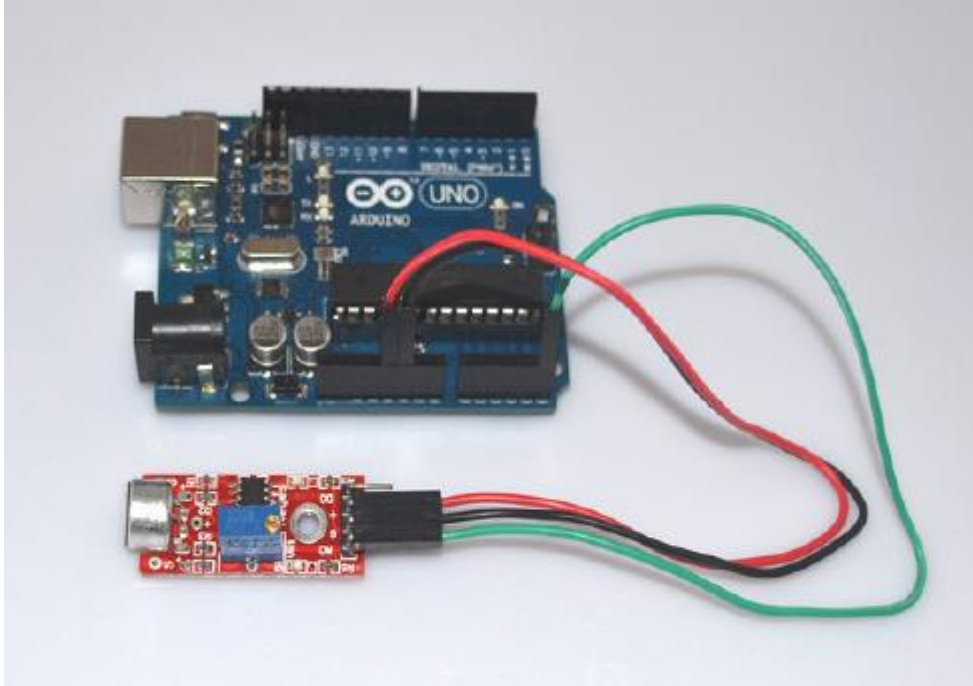


ARDUINO code:

## 1. Digital Output

```
int Led=13;//定义LED 接口
int buttonpin=3 //定义传感器D0接口
;int val;//定义数字变量val
void setup()
{
  pinMode(Led, OUTPUT);//定义LED 为输出接口
  pinMode(buttonpin, INPUT);//定义传感器D0为输出接口
}
void loop()
{
  val=digitalRead(buttonpin);//将数字接口3的值读取赋给val
  if(val==HIGH)//当声音检测模块检测有信号时，LED 闪烁
  http://keyes-arduino.taobao.com
  {
    digitalWrite(Led, HIGH)
  }
  else
```

```
{  
digitalWrite(Led, LOW)  
;}  
}
```



## 2. Analog output

```
int sensorPin = A5; // select the input pin for the potentiometer  
int ledPin = 13; // select the pin for the LED  
int sensorValue = 0; // variable to store the value coming from the sensor  
void setup() {  
  pinMode(ledPin, OUTPUT);  
  Serial.begin(9600);  
}  
void loop() {  
  sensorValue = analogRead(sensorPin);  
  digitalWrite(ledPin, HIGH);  
  delay(sensorValue);  
  digitalWrite(ledPin, LOW);  
  delay(sensorValue);  
  Serial.println(sensorValue, DEC);  
}
```