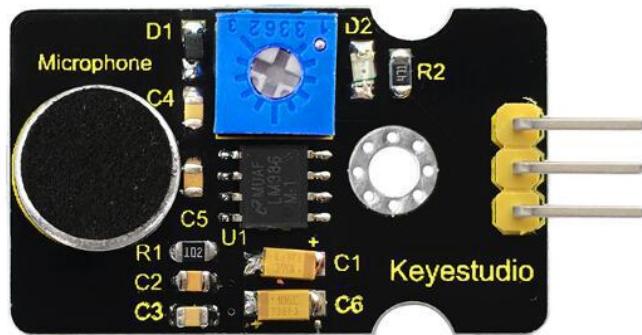


Keyestudio Microphone Sound Sensor



Introduction

The keyestudio microphone sensor is typically used in detecting the loudness in ambient environment. The Arduino can collect its output signal by analog input interface.

The S pin is analog output, that is voltage signal real-time output of microphone. The sensor comes with a potentiometer, so that you can turn it to adjust the signal gain.

It also has a fixed hole so that you can mount the sensor on any other devices.

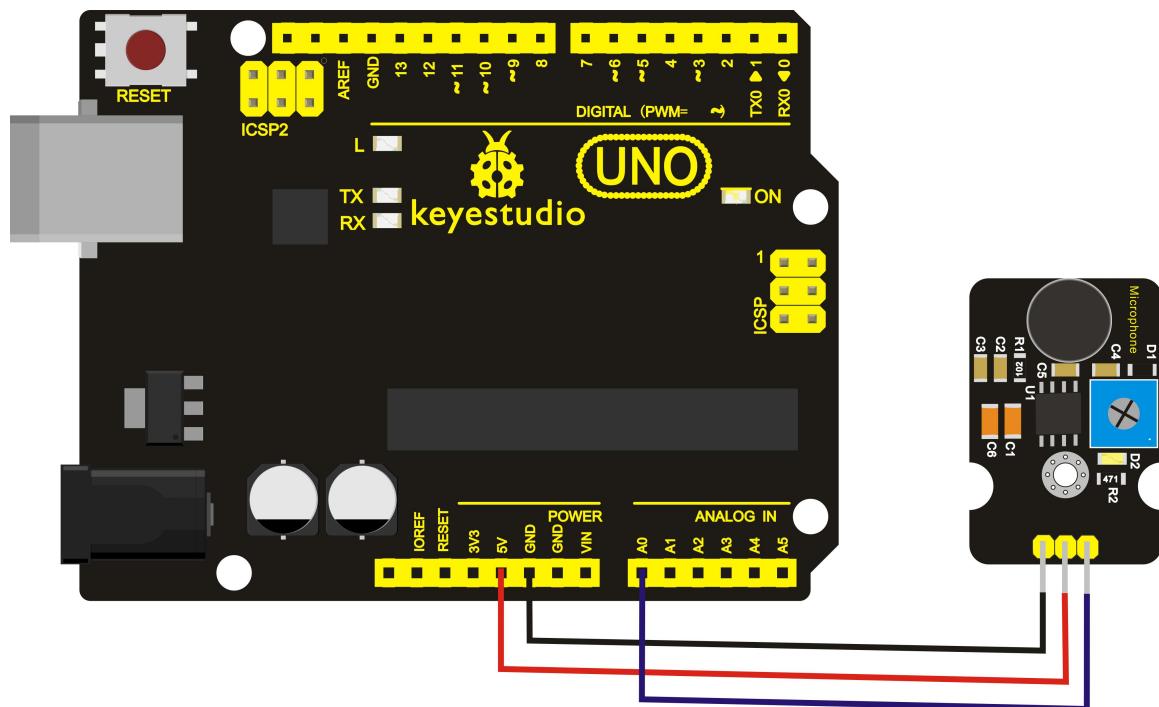
You can use it to make some interactive works, such as a voice operated switch.

keyestudio

Specification

- Operating voltage: 3.3V-5V (DC)
- Operating current: <10mA
- Interface: 3PIN
- Output signal: Analog

Connection Diagram



Sample Code

```
int sensorPin =A0 ; // define analog port A0
```

```
int value = 0;      //set value to 0
```

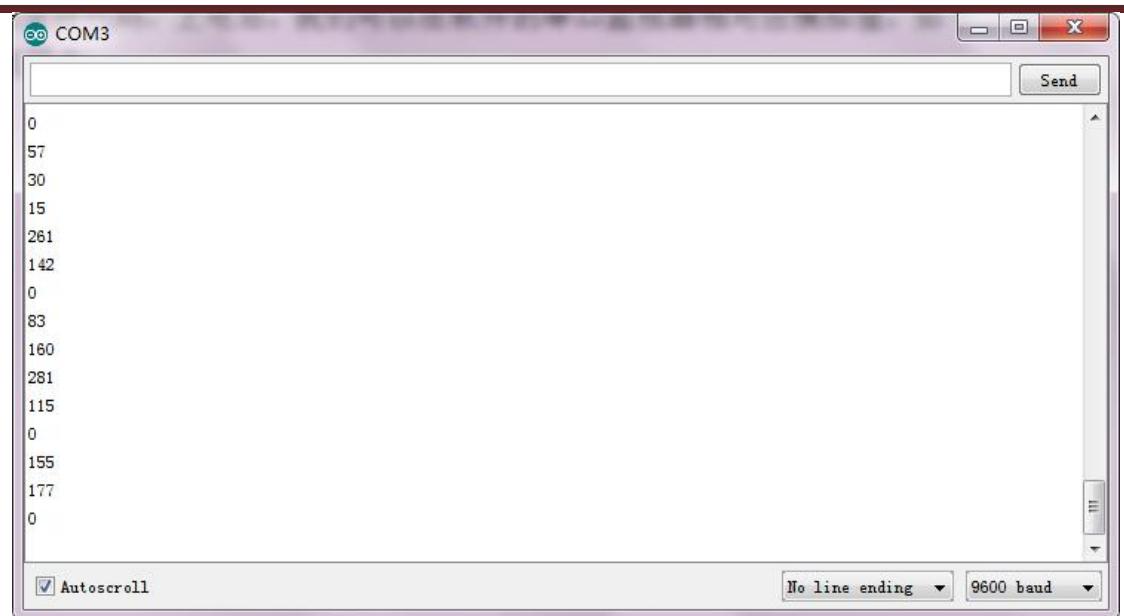
```
void setup()
{
    Serial.begin(9600); //set the baud rate to 9600
}

void loop()
{
    value = analogRead(sensorPin); //set the value as the value read from
    A0
    Serial.println(value, DEC); //print the value and line wrap
    delay(200); //delay 0.2S
}
```

Test Result

Connect it up and upload the code successfully, then open the serial monitor on the right upper corner of Arduino IDE.

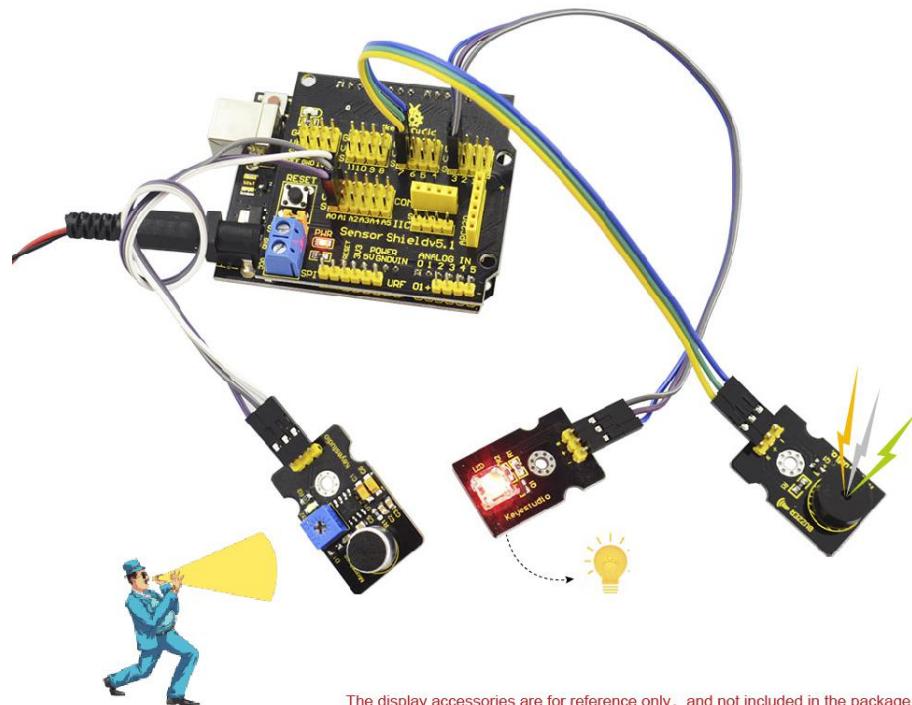
The analog value will pop up on the monitor window. The greater the sound, the greater the analog value is.



Further Use:

Sound Detection

Use sound sensor to detect whether there is sound nearby. When sound volume reaches a certain value, external LED lights and passive buzzer beeps.



The display accessories are for reference only, and not included in the package list.

Resource

<https://fs.keyestudio.com/KS0035>