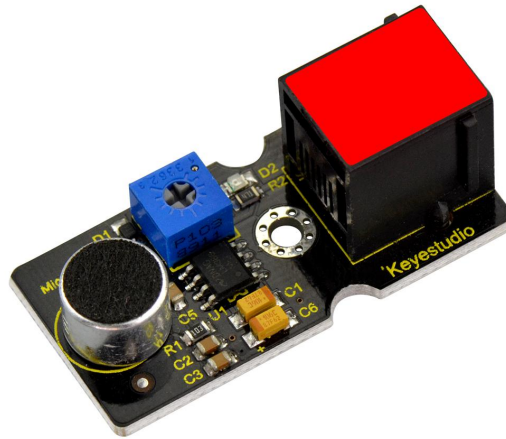


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EASY plug Analog Sound Sensor



Introduction

This sound sensor is typically used in detecting the loudness in ambient environment. You can use it to make interactive circuits such as a voice-operated switch.

The sound sensitivity can be adjusted by the potentiometer.

The sensor comes with a fixed hole, easy for fixation on other devices.

Note: this module should be used together with EASY plug control board.

Features

- Sensor type: Analog
- Supply Voltage: 3.3V to 5V
- Operating current : <10mA
- Output signal : analog signal

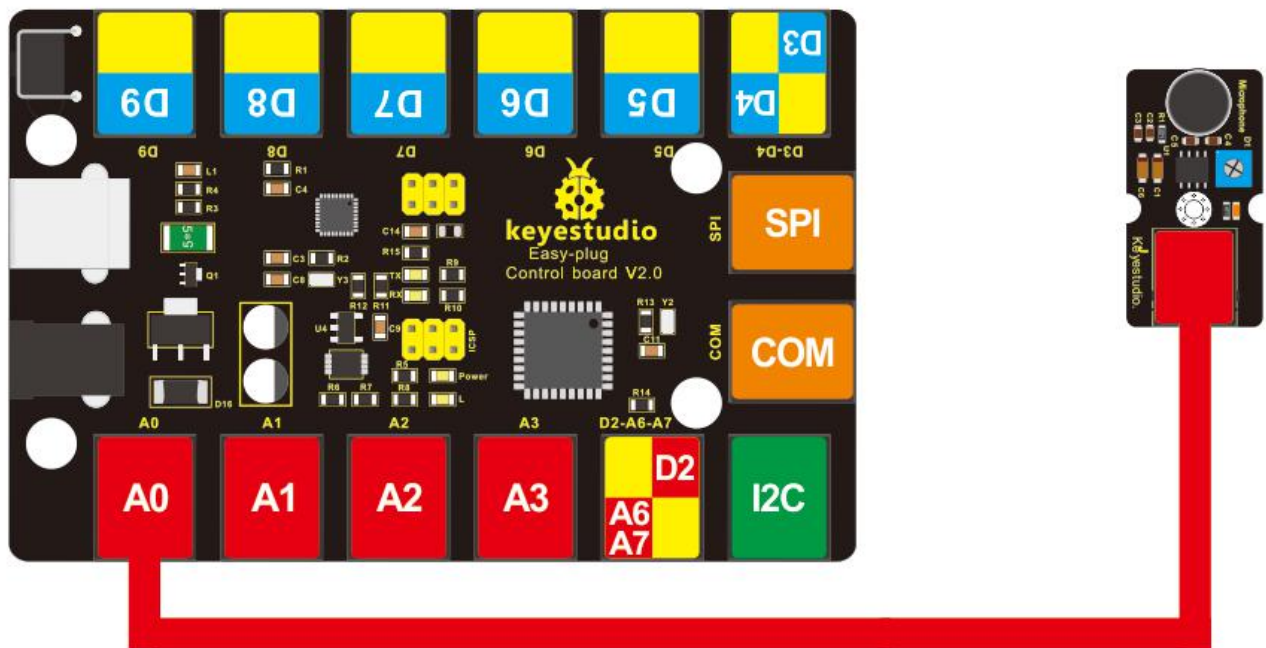
Technical Details

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- Dimensions: 42mm*20mm*18mm
- Weight: 6.0g

Connect It Up

Connect the EASY Plug sound sensor to control board using an RJ11 cable. Then connect the control board to your PC with a USB cable.



Upload the Code

Open or direct drag below code to [Mixly blocks](#) and upload.

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Declare `val` as `int` value `0`

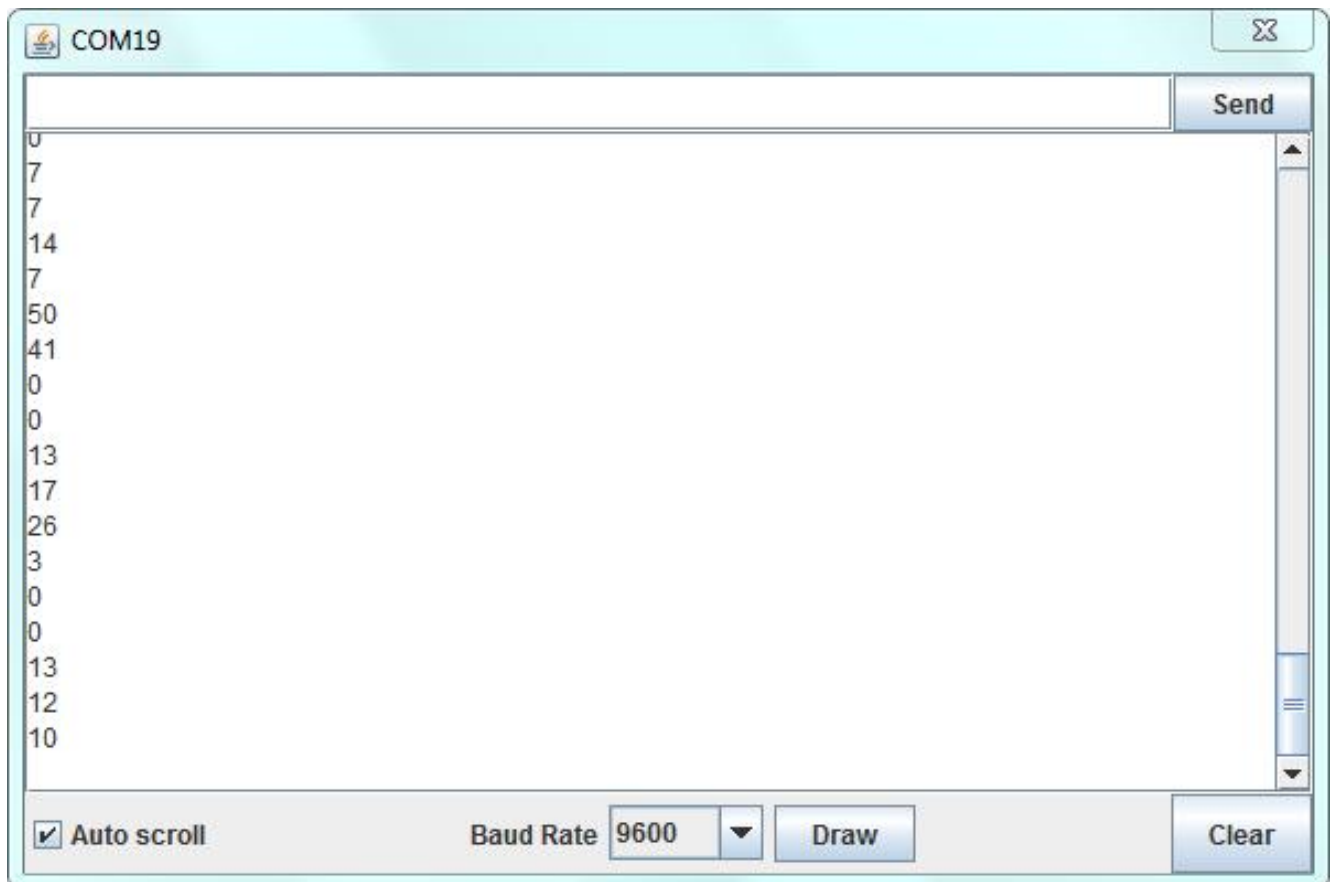
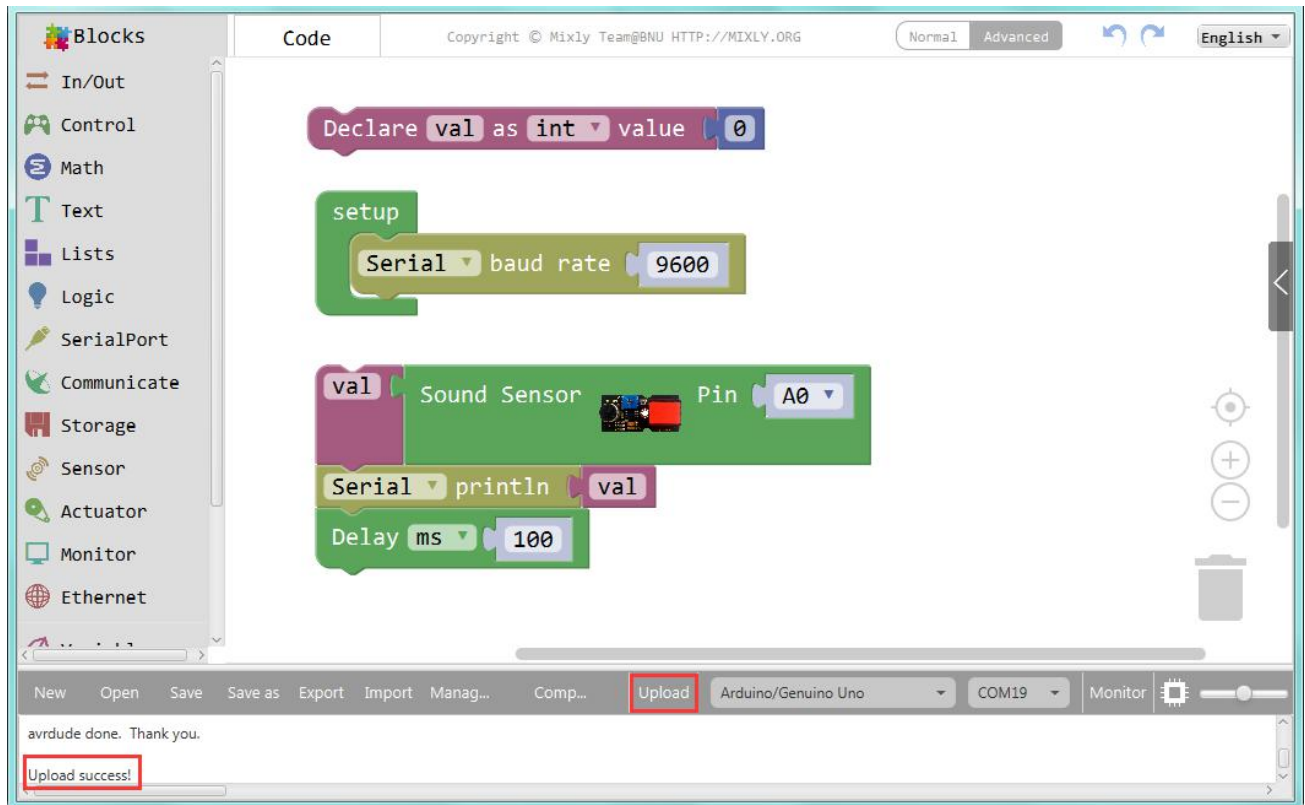
setup
Serial baud rate `9600`

`val` Sound Sensor  Pin `A0`
Serial println `val`
Delay ms `100`

What You Should See

After uploading the code, open the serial monitor and set the baud rate to 9600, you should see the analog value is showed on the monitor.

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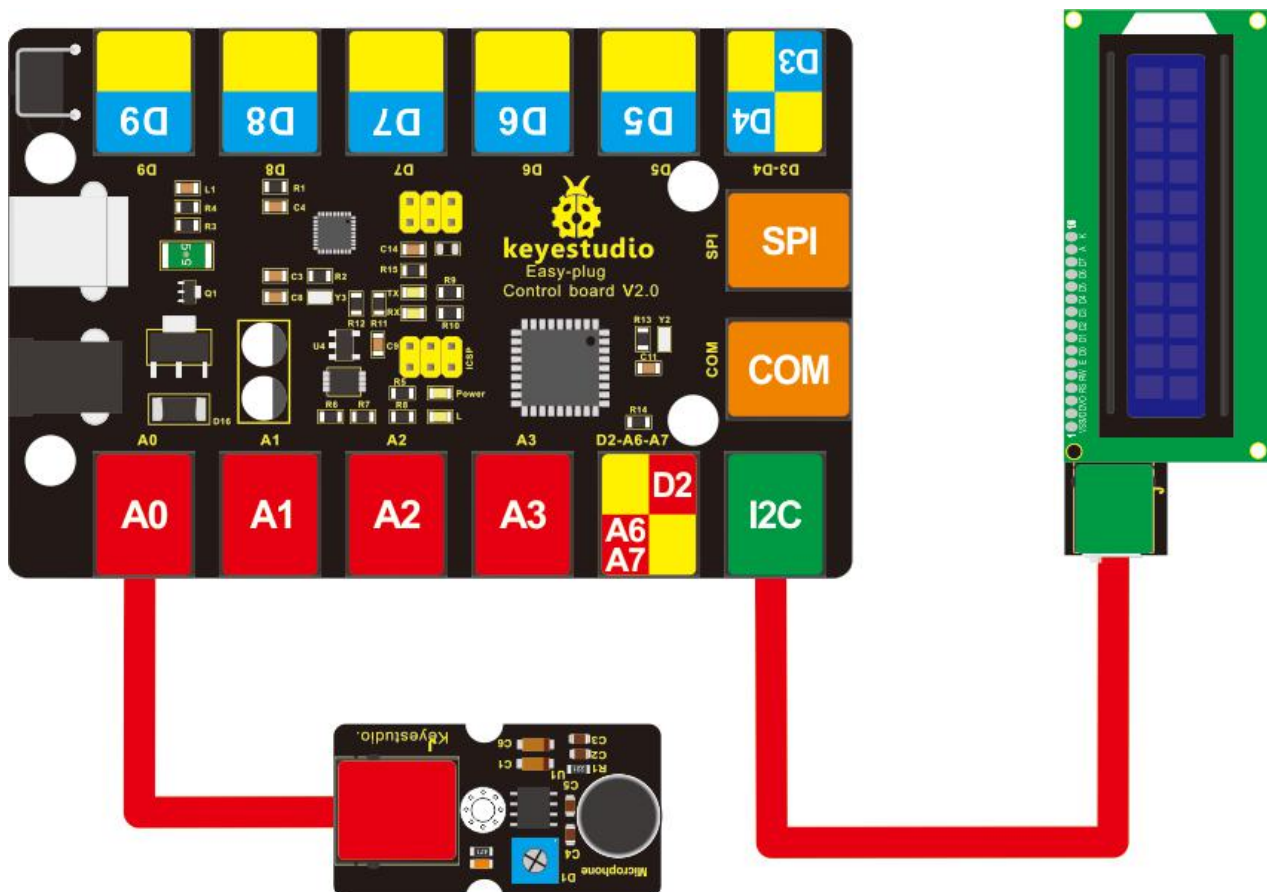
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Extension Experiment:

Adding LCD Display

Connect It Up

Connect the EASY Plug sound sensor and LCD module to control board using RJ11 cables.



Upload the Code

Below is an example code.

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Declare `val` as `int` value `0`

setup
Serial baud rate `9600`

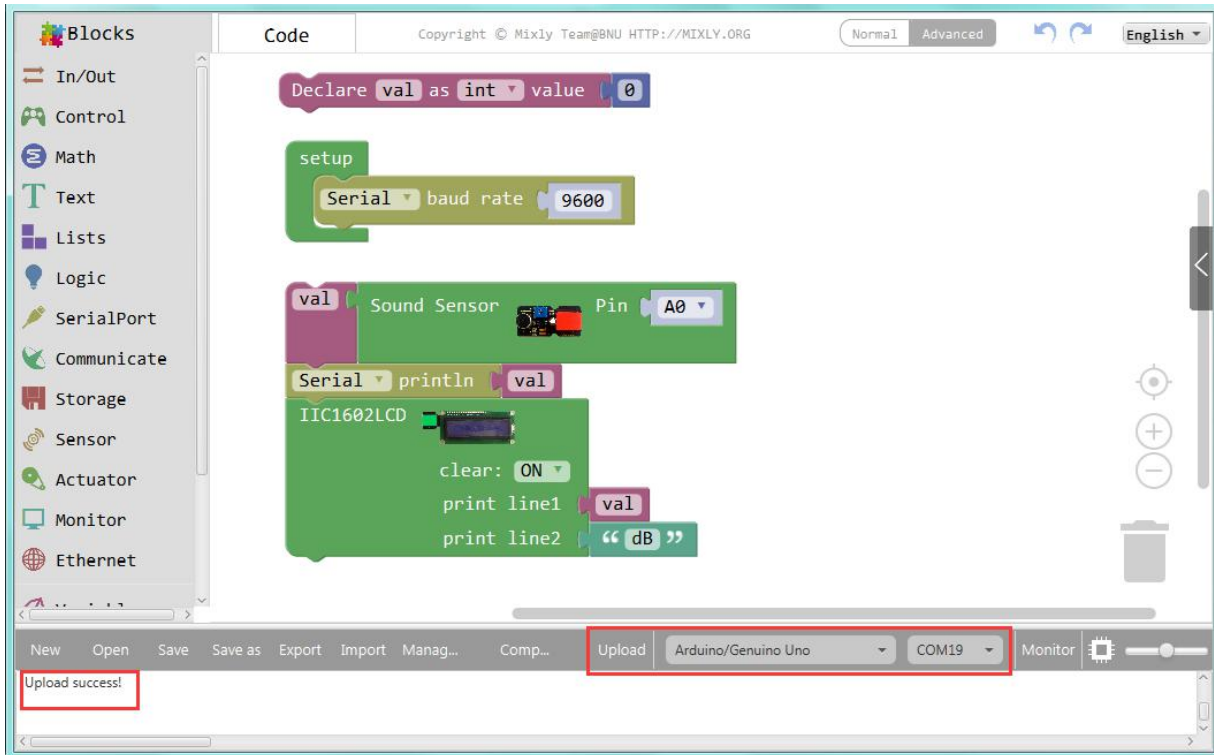
`val` Sound Sensor  Pin `A0`

Serial println `val`

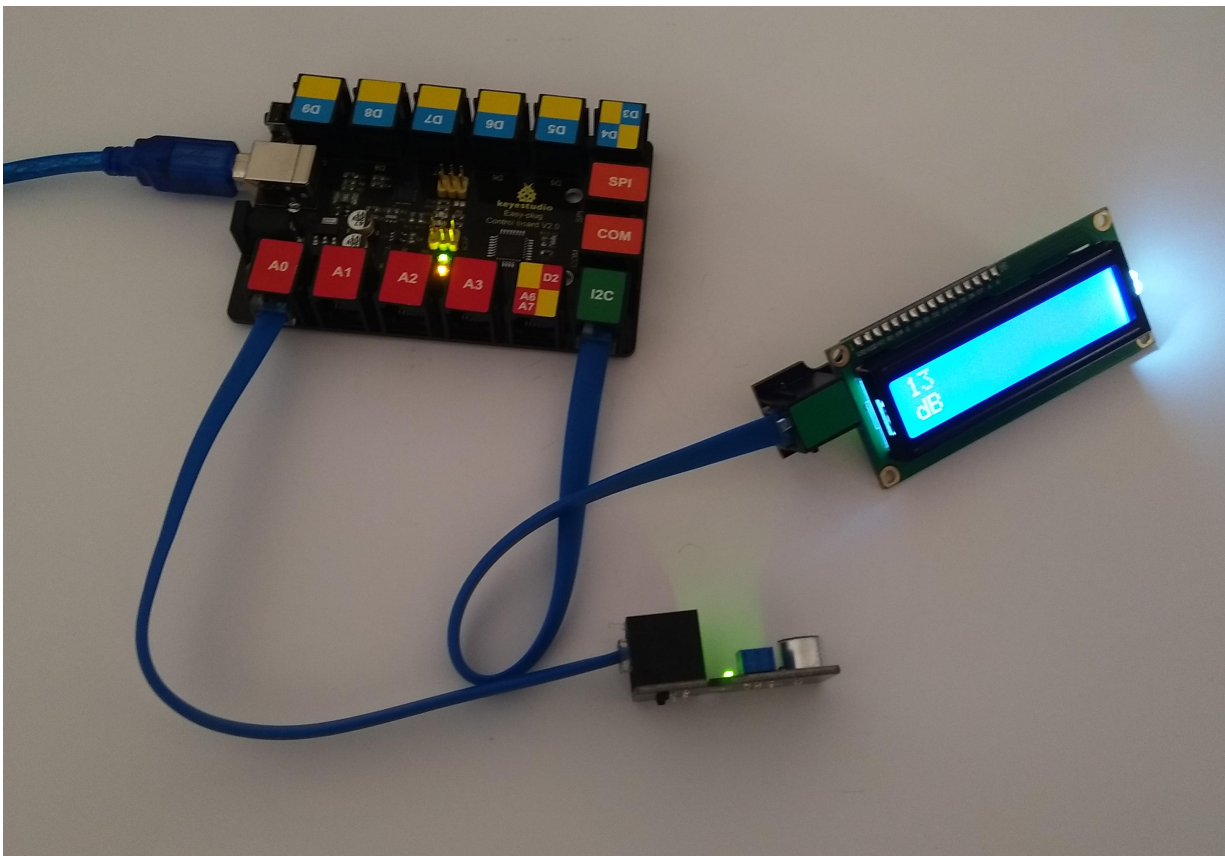
IIC1602LCD 
clear: `ON`
print line1 `val`
print line2 `" dB "`

What You Should See

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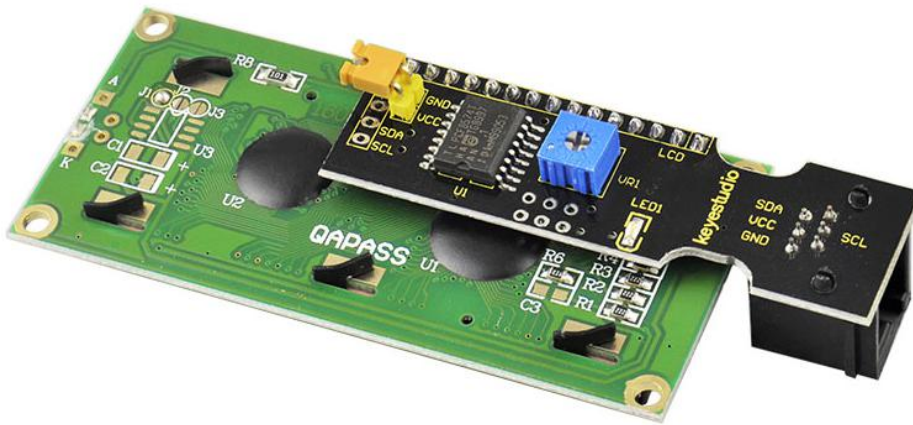
Upload the code successfully, when the sensor detects the outside sound, the LCD screen will show the sound volume, and its unit is decibel (dB).



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Little Knowledge:

- ✓ Remember you can adjust the contrast by rotating a blue potentiometer on the LCD back if you can't make out the words clearly.



Resource:

<https://fs.keyestudio.com/KS0105>