

INDUSTRIAL PRODUCT DATASHEET

Grove - Sound Sensor Based on LM358 amplifier - Arduino Compatible

The Grove - Sound Sensor, featuring an LM358 amplifier and analog output, provides plug-and-play sound detection for Arduino projects.

SKU

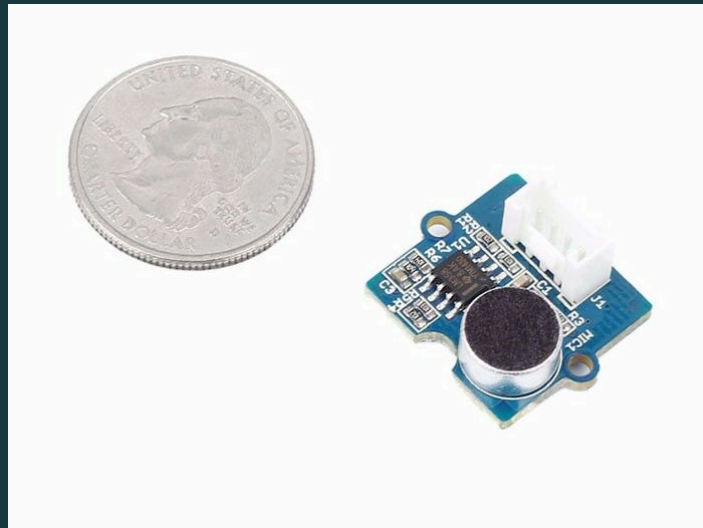
101020023

UPDATED

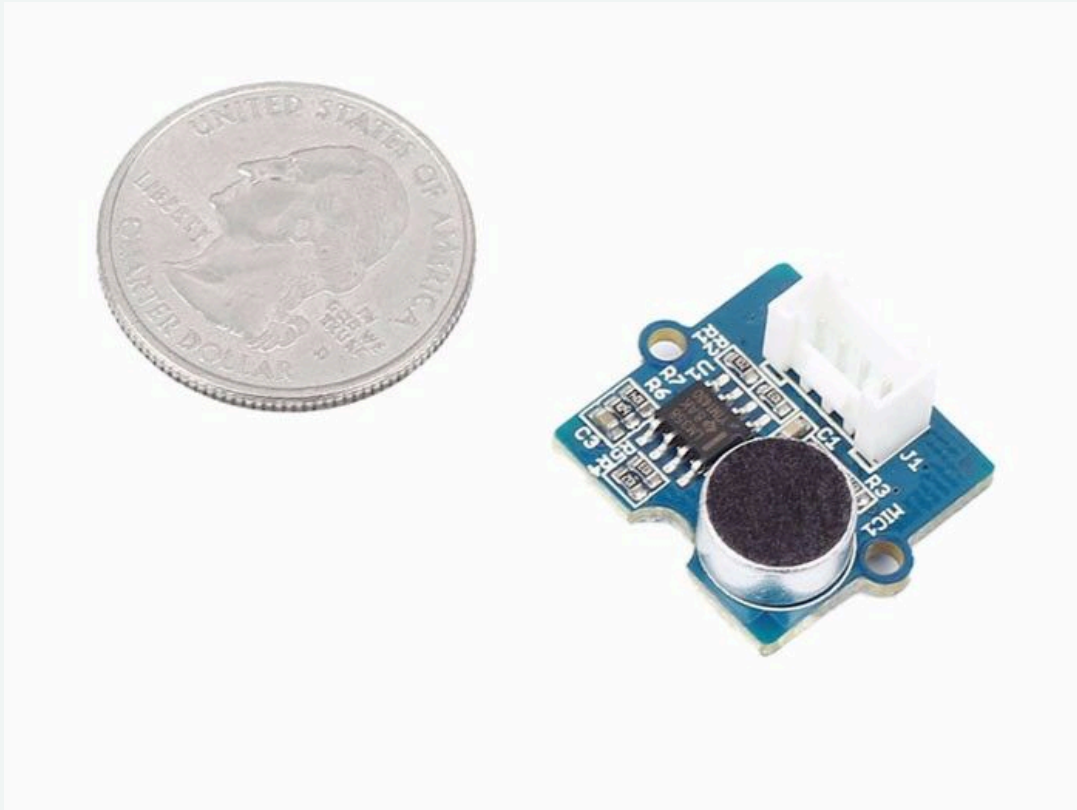
2026-05-14 02:42:27

PRICE

\$5.40(Excl. VAT)



Overview

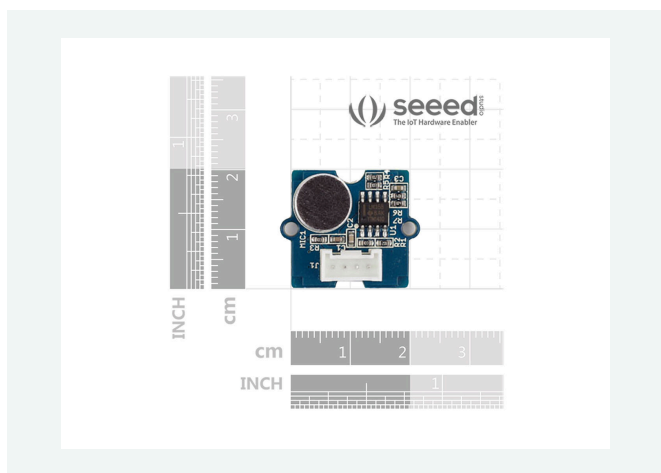
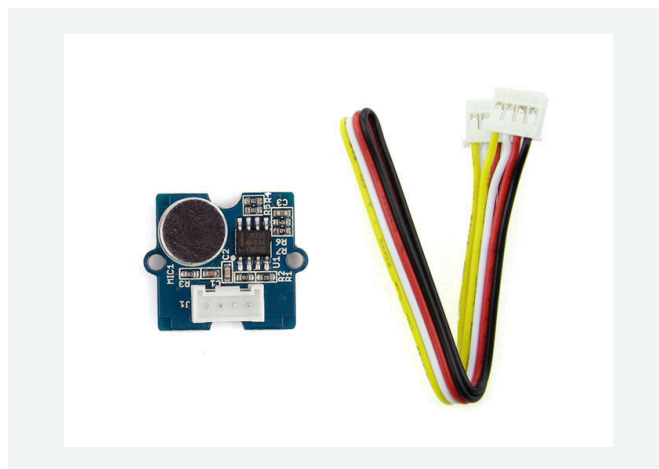
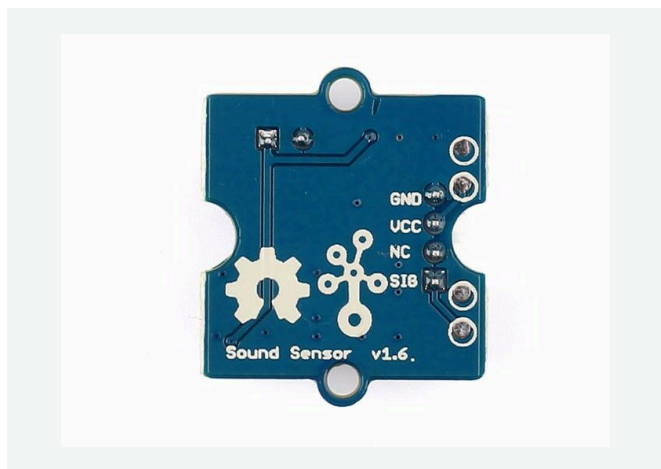


The Grove - Sound Sensor is based on the LM358 operational amplifier, offering a wide supply voltage range of 4V-12V and an analog output for easy integration with Grove circuits. It is suitable for applications including sound/noise detection, sound control lamps, and sound interactive devices, with plug-and-play functionality via the unified Grove socket.

Key Features

- **Upgraded functionality:** Based on LM358 --Dual, 36-V, 1.2-MHz, 3-mV offset voltage operational amplifier with -40°C to 85°C operation
- **Wide supply voltage range:** In the range of 4V-12V
- **Easy to read:** Can easily integrate with logic modules on the input side of Grove circuits and its output is analog
- **Grove unified socket:** The sensor ensures "Plug and Play" and could be versatile for various applications

Product Gallery



Specification

Dimensions	24mm x20mm x9.8mm
Weight	G.W 9g
Battery	Exclude
Operating Voltage Range	5 V
Operating Current(Vcc=5V)	4~5 mA
Voltage Gain(V=6V, f=1kHz)	26 dB
Microphone sensitivity(1kHz)	52-48 dB
Microphone Impedance	2.2k Ohm
Microphone Frequency	16-20 kHz
Microphone S/N Ratio	54 dB

Applications

- Simple microphone
- Sound/noise detector
- Smart home: Sound control lamp
- Sound interactive device

Part List

Grove - Sound Sensor	1
----------------------	---

Compliance & Logistics



HSCODE	9031900090
USHSCODE	9031902100
UPC	841454107613
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Sound-Sensor-Based-on-LM358-amplifier-Arduino-Compatible.html>

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com