

INDUSTRIAL PRODUCT DATASHEET

Grove-Loudness Sensor- Based on amplifier LM2904&built-in microphone

Grove-Loudness Sensor based on LM2904 amplifier with built-in microphone, filtering, adjustable gain, and plug-and-play Grove interface.

SKU

101020063

UPDATED

2026-04-24 02:29:04

PRICE

\$6.50(Excl. VAT)



Overview

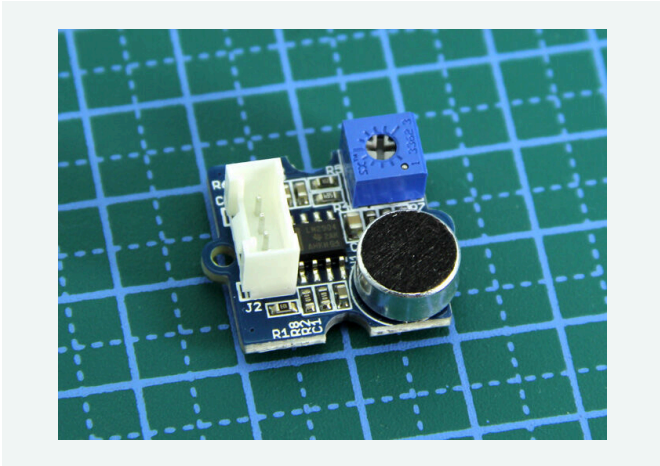
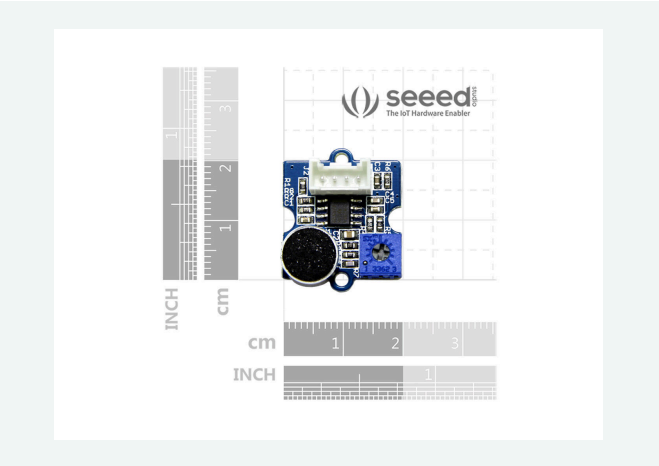
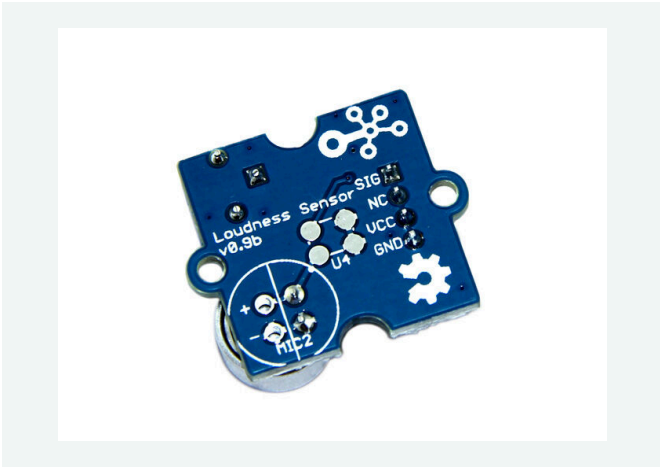
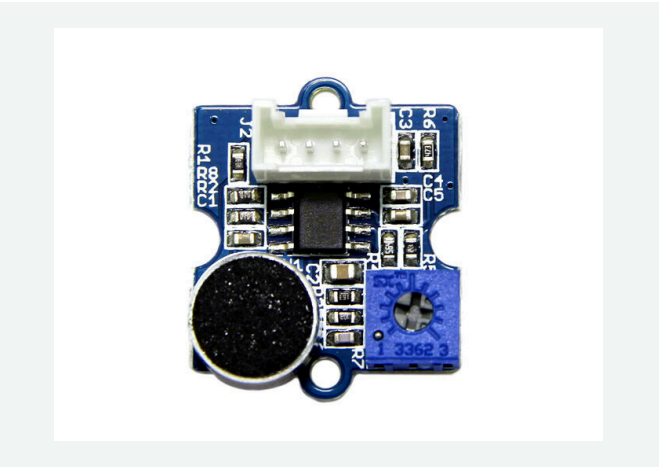


The Grove-Loudness Sensor uses an LM2904 dual operational amplifier and built-in microphone for audio signal processing. It features a wide 3.2V–5.2V supply range, on-module dual-stage filtering, and an adjustable output gain via screw potentiometer with Grove unified socket connectivity.

Key Features

- **Upgraded functionality:** Based on LM2904 -- Dual, 36-V, 1.2-MHz operational amplifier with -40°C to 125°C operation
- **Wide supply voltage range:** In the range of 3.2V~5.2V
- **Built-in signal filtering:** Input signal will go through two times filtering inside the module
- **Adjustable output gain:** A screw potentiometer that enables manual adjustments to the output gain
- **Grove unified socket:** The product ensures "Plug and Play" and could be versatile for various applications of Grove

Product Gallery



Specification

Dimensions	24mm x20mm x9.8mm
Weight	G.W 9g
Battery	Exclude
Voltage	3.5~10 VDC
Working Frequency	50~2000 Hz
Sensitivity	-48~66 dB
Signal-to-noise Ratio	>58 dB
Output Signal range	Analog Signal (0-1023)

Part List

Grove - Loudness Sensor	1
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Compliance & Logistics



HSCODE	9031900090
USHSCODE	9031808085
UPC	841454108023
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Loudness-Sensor.html>
- [LM2904DR Datasheet](#)
- [Grove - Loudness Sensor Schematic](#)
- [Wiki of Sound Sensor/ Noise Detector for Arduino](#)

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