



# Grove - Loudness Sensor

SKU 101020063

## Description

The Grove - Loudness Sensor is designed to detect the loudness of environmental sound. Based on amplifier LM2904 and a built-in microphone, it amplifies and filters the high frequency signal that received from the microphone, and outputs a positive envelop. This will make for Arduino's signal acquisition. The output value depends on the level of sound input. In order to avoid unnecessary signal disturbances, input signal will go through two times filtering inside the module. Lastly, there is a screw potentiometer that enables manual adjustments to the output gain.

## Features

- Grove compatible interface
- Wide supply voltage range
- Built-in signal filtering
- Gain adjustable via screw potentiometer

For all Grove users (especially beginners), we provide you guidance PDF documents. Please download and read through Preface - Getting Started and Introduction to Grove before your using of the product.

## Technical Details

Dimensions	24mm x 20mm x 9.80mm
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

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## ECCN/HTS

ECCN	EAR99
HSCODE	9031900090

## Certification

RoHS	Compliant
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