

INDUSTRIAL PRODUCT DATASHEET

Grove - Multichannel Gas Sensor v2 - Besides CO, NO2, C2H5CH, VOC - MEMS gas sensor

Compact multi-gas MEMS sensor providing qualitative detection of CO, NO2, ethanol, VOCs, and more for air quality and safety applications.

SKU

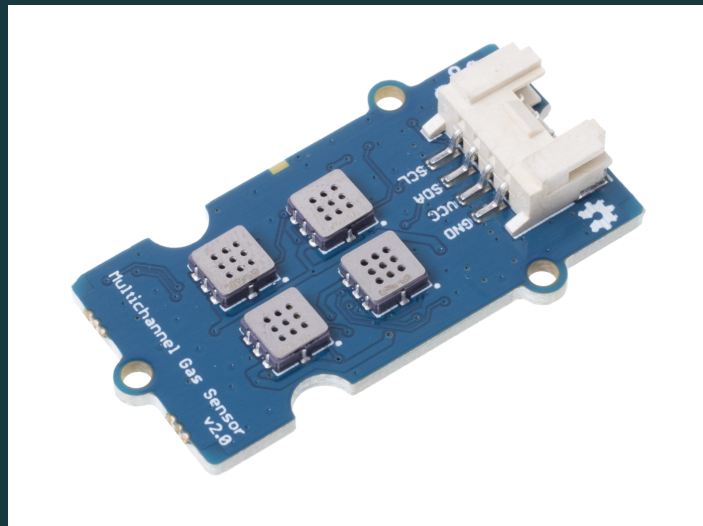
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UPDATED

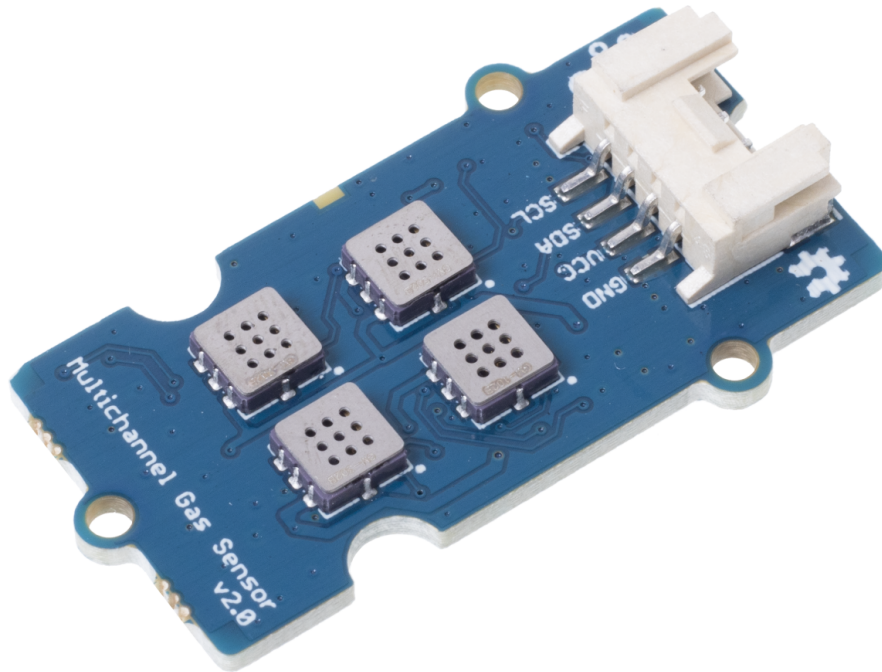
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PRICE

\$29.99(Excl. VAT)



Overview

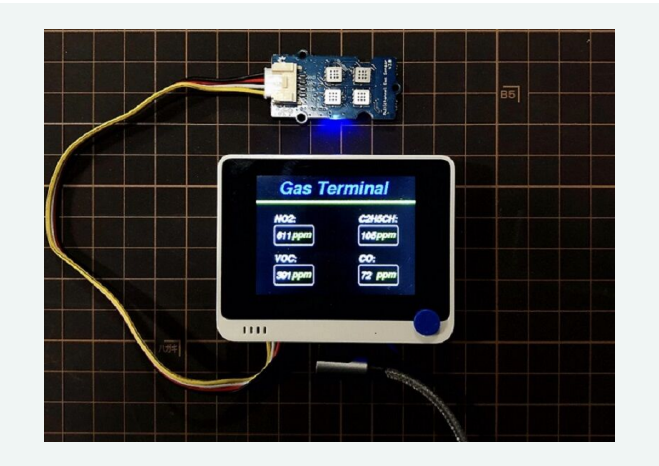
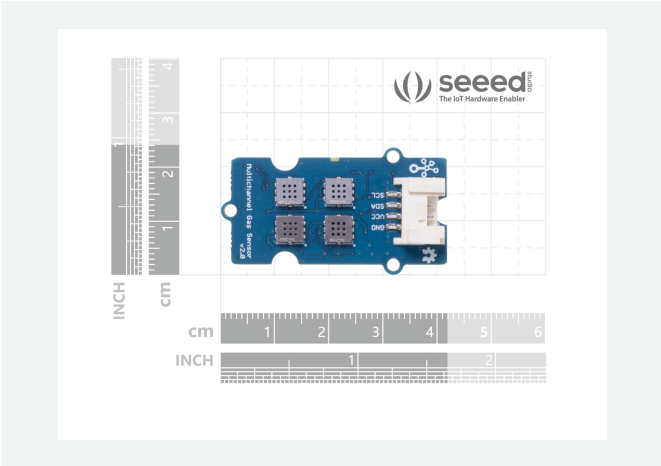
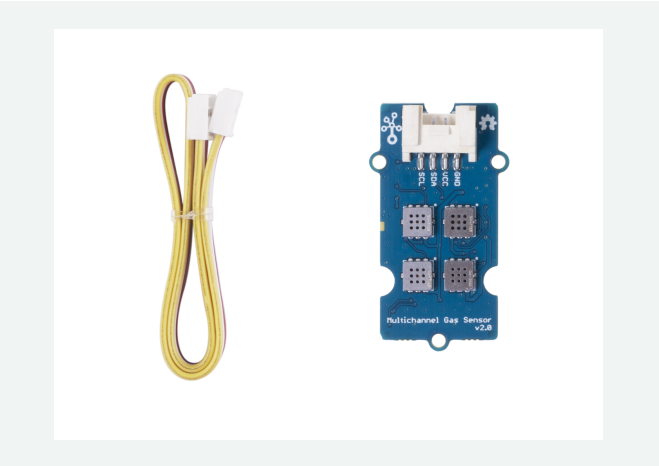
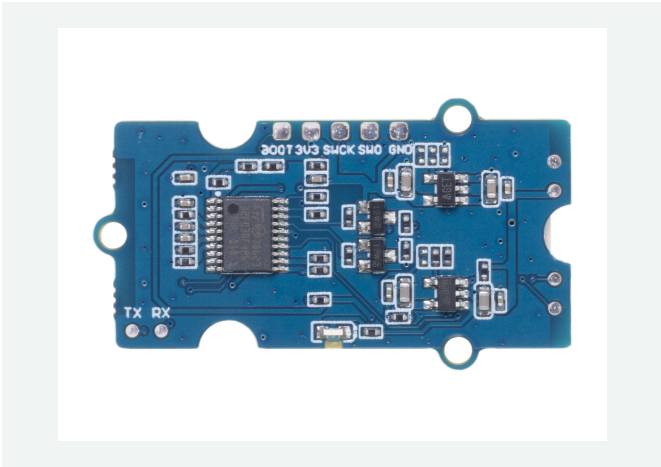
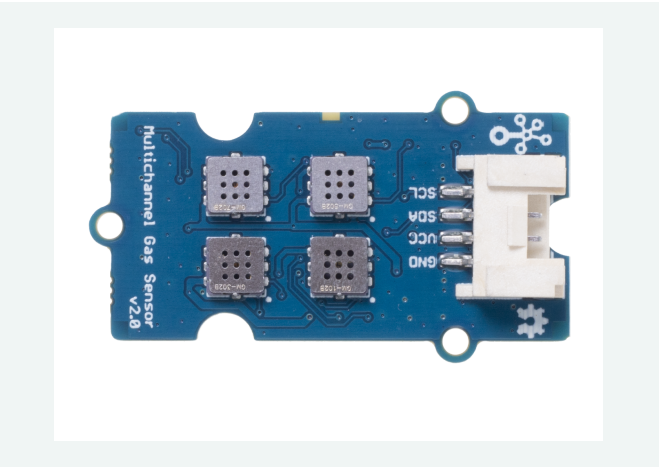


The Grove - Multichannel Gas Sensor v2 features four independent MEMS sensor units that deliver high sensitivity and stable qualitative detection of multiple gases including carbon monoxide, nitrogen dioxide, ethanol, and volatile organic compounds. Its compact design supports applications such as indoor air quality monitoring, carbon monoxide gas leak alarms, exhaled gas detection, indoor smoke alarms, and in-vehicle safety including ventilation control, gasoline vapor detection, and alcohol breath testing.

Key Features

- **Independent measurement units ensure accurate results:** encapsulates four MEMS sensor devices completely independent
- **High-performance gas sensor:** high gas sensitivity and high measurement stability
- **Ability to monitor multiple gases:** besides carbon monoxide (CO), nitrogen dioxide (NO2), ethanol (C2H5CH), volatile organic compounds (VOC), and more
- **Qualitative detecting**, rather than quantitative.
- **Compact size** for easy deployment.

Product Gallery

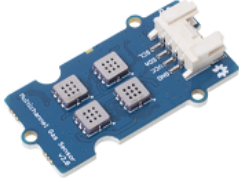


Specification

MCU	STM32F030
Interface	Grove I2C
I2C address	0x08

Output voltage	3.3V~5V
Onboard Gas Sensors	GM-102B; GM-302B; GM-502B; GM-702B

Storage time	Recommended warm-up time
Less than 1 month	No less than 24 hrs
1-6 months	No less than 48 hrs
Over 6 months	No less than 72 hrs

Details	Grove Multichannel Gas Sensor V1	Grove Multichannel Gas Sensor V2
Sensors	One package with three elements	Four independent sensors
MCU	Atmel 8-bit Micro-controller	32-bit Value-line ARM®
Price	\$39.9	\$34.9
Image		

Applications

- **Indoor Air Quality Monitoring**
- **carbon monoxide gas leak alarm**
- **Exhaled gas detector**
- **indoor smoke alarm**
- **In-vehicle safety:** car ventilation control; gasoline vapor detection; alcohol breath test

Compliance & Logistics



HSCODE	9027900000
USHSCODE	9027908800
UPC	841454123064
EUHSCODE	9027109000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Multichannel-Gas-Sensor-v2-p-4569.html>
- [Grove_Multichannel_Gas_Sensor_v2 Library](#)
- [GM-102B Technical Parameter.pdf](#)
- [GM-302B MEMS Technical Parameter v2.1.pdf](#)
- [GM-502B MEMS VOC Technical Parameter v2.1.pdf](#)
- [GM-702B Technical Parameter\(Ver1.1\).pdf](#)

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