

INDUSTRIAL PRODUCT DATASHEET

Grove - VOC and eCO2 Gas Sensor - SGP30 - multi-pixel gas sensor with low power consumption, ideal for Air Purifier System, Smart Ventilation System

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SKU

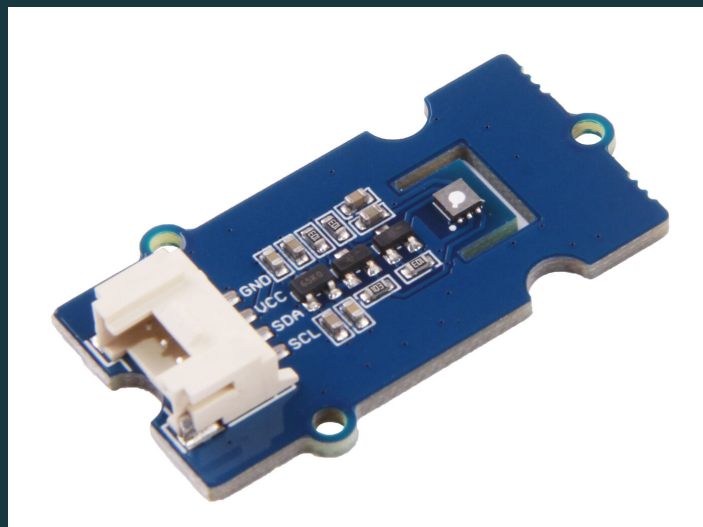
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UPDATED

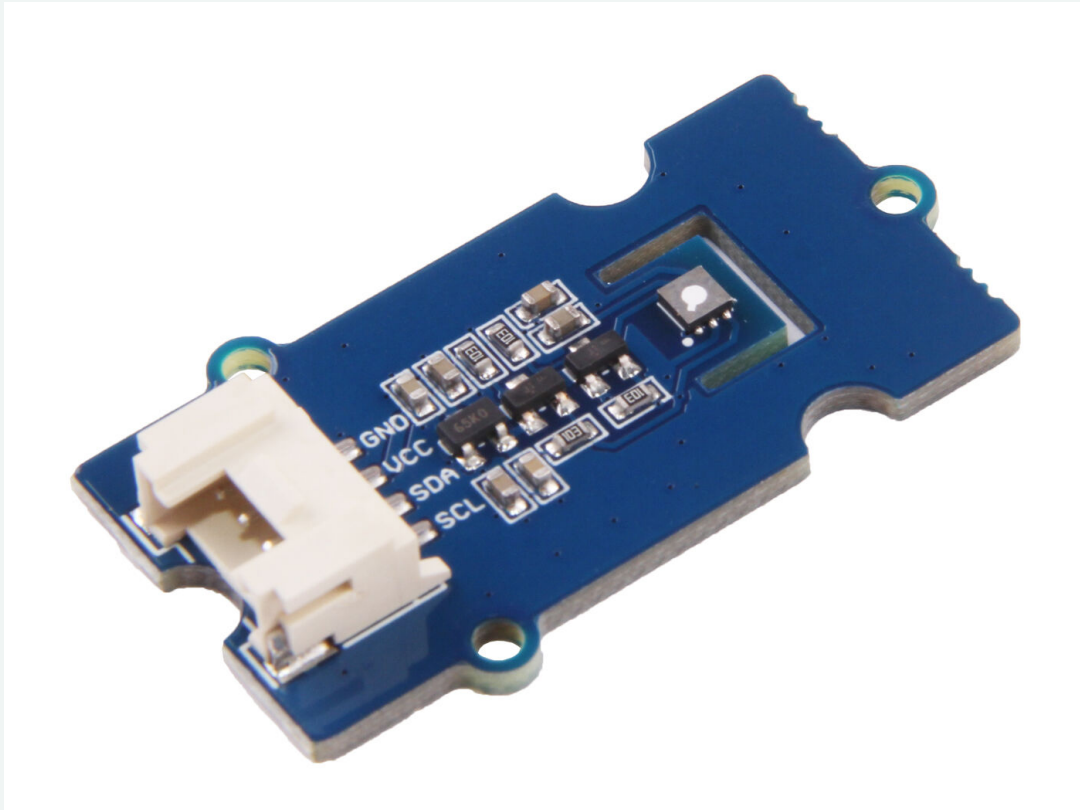
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PRICE

\$7.90(Excl. VAT)



Overview

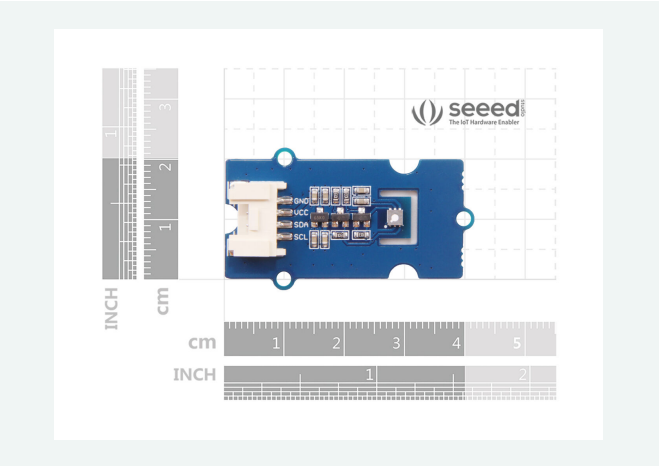
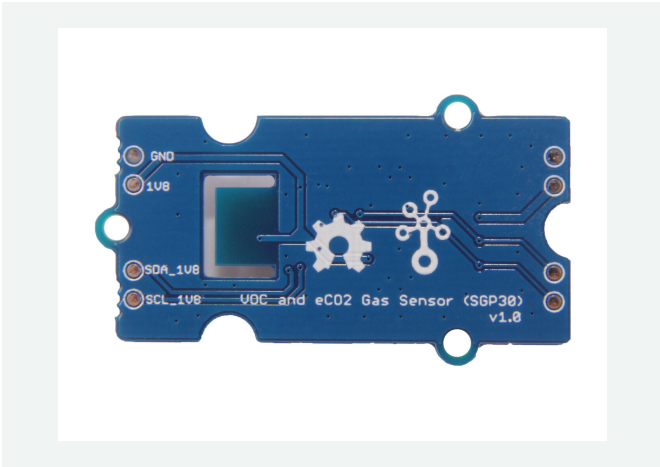
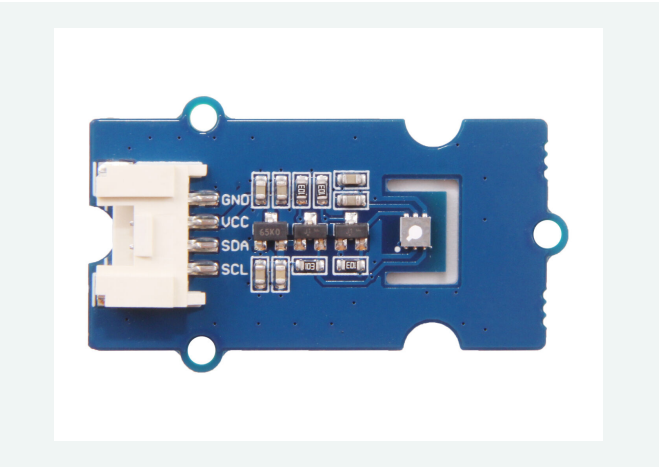


The Grove - VOC and eCO2 Gas Sensor - SGP30 is a multi-pixel gas sensor based on the Sensirion SGP30, offering outstanding stability via dual-channel NDIR technology, low power consumption, and high measurement accuracy. It is ideal for indoor air quality monitoring, air purifiers, demand-controlled ventilation, and new house air condition monitors.

Key Features

- **Outstanding stability:** Dual-channel NDIR technology to detect carbon dioxide concentration
- **High-performance gas sensor:** Sensirion SGP30, a multi-pixel gas sensor for indoor air quality applications
- **Low power consumption:** : Supports 48 mA at 1.8V which enables excellent long-term stability
- **High measurement accuracy:** Using dynamic baseline compensation algorithm and on-chip calibration parameters
- **Grove unified socket:** The sensor ensures "Plug and Play" and could be versatile for various applications.

Product Gallery



Specification

Dimensions	135mm x 85mm x 10mm
Weight	G.W 9g
Battery	Exclude
Working Voltage	3.3V/5V
Output range	TVOC:0 ppb to 60000ppb / CO ₂ eq:400 ppm to 60'000 ppm
Sampling rate	1HZ
IIC address	0X58

Applications

- Indoor air quality monitoring
- Air purifier
- Demand-controlled ventilation
- New house air condition monitor

Part List

Grove - VOC and eCO2 Gas Sensor (SGP30)	1
Grove cable	1

Compliance & Logistics



HSCODE	9027900000
USHSCODE	9027908800
UPC	841454120629
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-VOC-and-eCO2-Gas-Sensor-for-Arduino-SGP30.html>
- Grove-VOC and eCO2 Gas Sensor(SGP30) eagle file
- SGP30 Datasheet
- BSS138L Datasheet
- SGP30 Driver Integration Guide HW I2C
- Community Innovations: A Showcase of Sensirion-Based Grove Projects

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