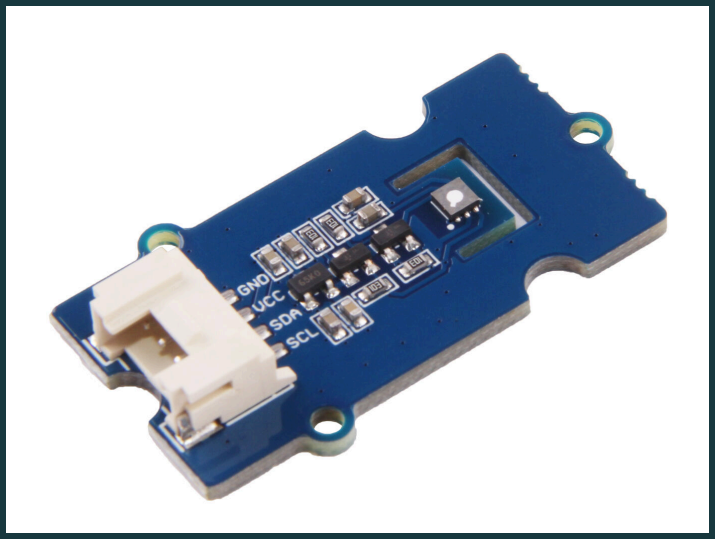
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INDUSTRIAL PRODUCT DATASHEET

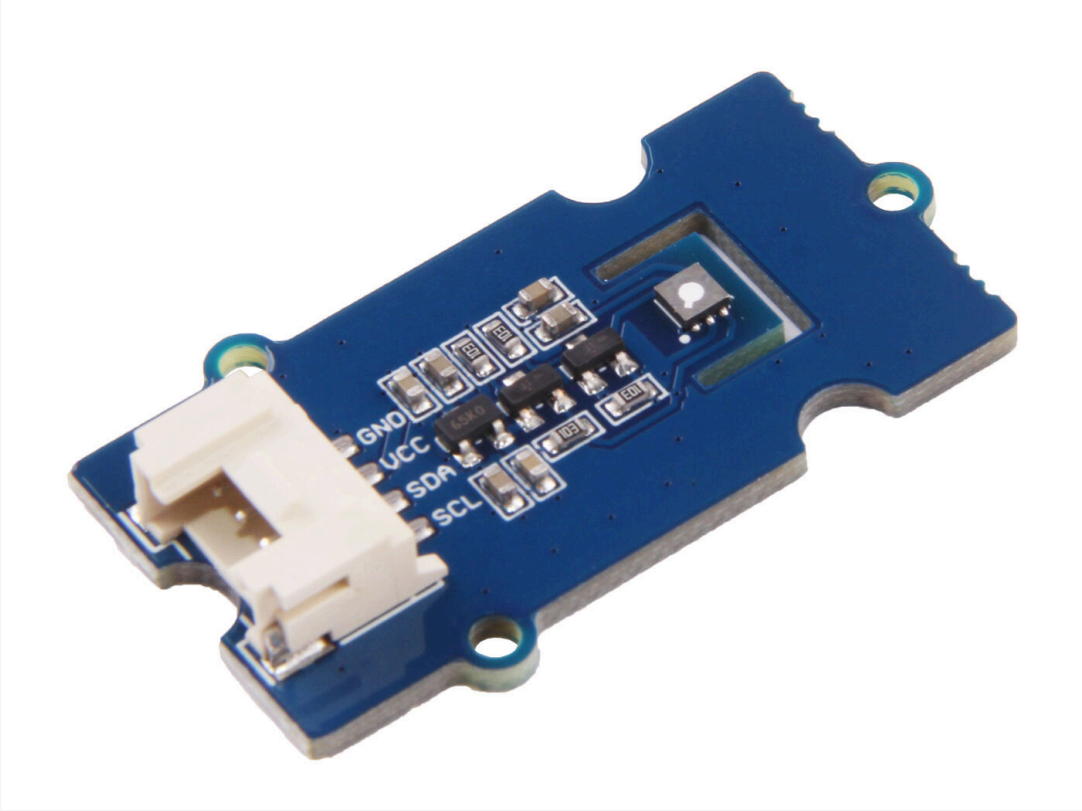
Grove - VOC and eCO2 Gas Sensor - SGP30 - multi-pixel gas sensor with low power consumption, ideal for Air Purifier System, Smart Ventilation System

Grove - VOC and eCO2 Gas Sensor - SGP30: a low-power, plug-and-play multi-pixel gas sensor for indoor air quality, air purification, and smart ventilation applications.

SKU	UPDATED	PRICE
101020512	2026-11-03 03:42:09	$7.90(Excl. VAT)



Overview



The Grove - VOC and eCO2 Gas Sensor - SGP30 is a low-power multi-pixel gas sensor based on Sensirion SGP30, featuring dual-channel NDIR technology for CO2 detection, dynamic baseline compensation, and on-chip calibration parameters. With a Grove unified socket for plug-and-play use and 48 mA at 1.8 V operation, it is ideal for indoor air quality monitoring, air purifiers, demand-controlled ventilation, and new house air condition monitors.

Key Features

01 **Outstanding stability**

Dual-channel NDIR technology to detect carbon dioxide concentration

02 **High-performance gas sensor**

Sensirion SGP30, a multi-pixel gas sensor for indoor air quality applications

03 **Low power consumption**

: Supports 48 mA at 1.8V which enables excellent long-term stability

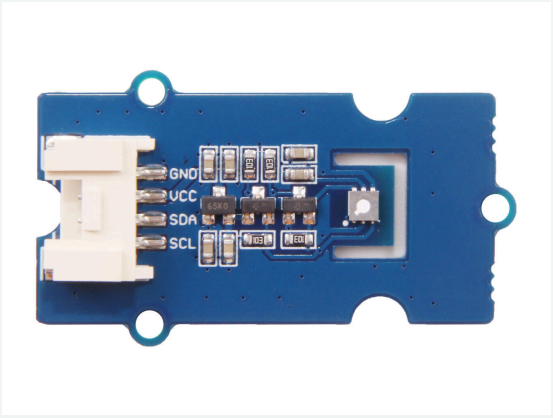
04 **High measurement accuracy**

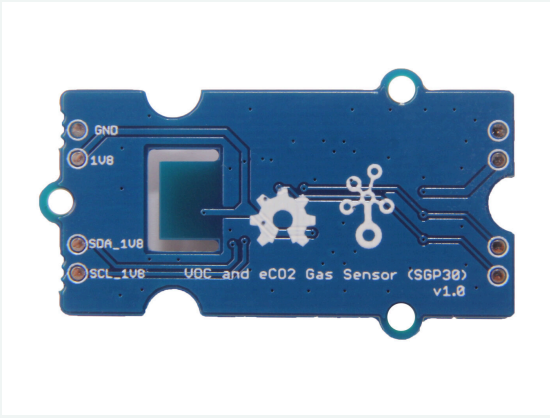
Using dynamic baseline compensation algorithm and on-chip calibration parameters

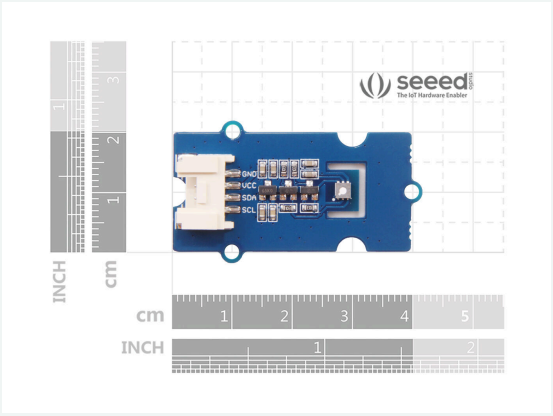
05 **Grove unified socket**

The sensor ensures "Plug and Play" and could be versatile for various applications.

Product Gallery







Applications

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

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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