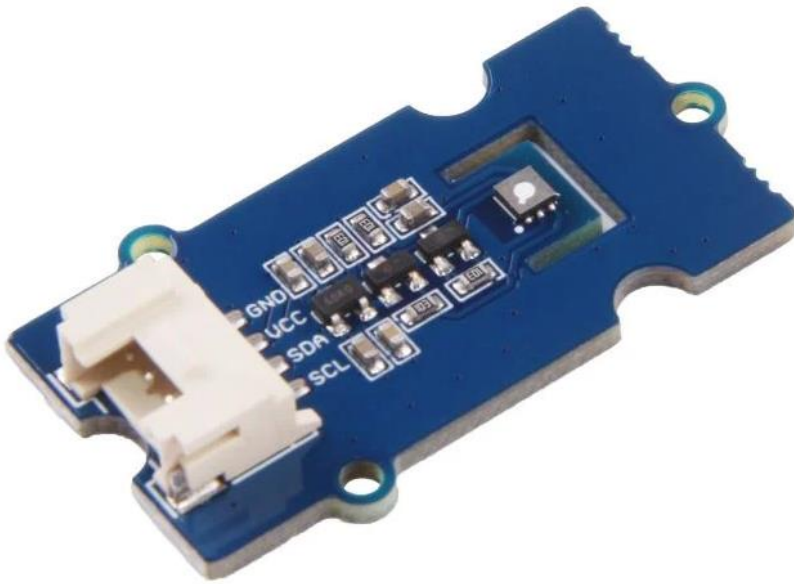# seeed studio

Grove - VOC and eCO2 Gas Sensor - Arduino Compatible - SGP30

Part Number: 101020512

Overview:

The Grove-VOC and eCO2 Gas Sensor SGP30 is an air quality sensor (Arduino compatible). Based on SGP30, this module provides TVOC (Total Volatile Organic Compounds) and CO2eq output with outstanding long-term stability and low power consumption, which make it a perfect choice for indoor air quality detection.

Product Details:

Features:

- Multi-pixel gas sensor for indoor air quality applications
- Outstanding long-term stability
- I2C interface with TVOC and CO2eq output signals
- Low power consumption
- Chip module tape and reel packaged, reflow solderable.

Description:

The Grove-VOC and eCO2 Gas Sensor SGP30 is an air quality sensor. Based on SGP30, this module provides TVOC(Total Volatile Organic Compounds) and CO2eq output with outstanding long-term stability and low power consumption, which make it a perfect choice for indoor air quality detection using Arduino or Raspberry Pi.

The Sensirion SGP30 is a digital multi-pixel gas sensor which can easily integrate with air purifiers, demand-controlled ventilation, and other IoT applications. Powered by Sensirion's CMOSens®technology, it integrates a complete sensor system on a single chip featuring a digital I2C interface, a temperature-controlled micro hotplate, and two preprocessed

indoor air quality signals. As the first metal-oxide gas sensor featuring multiple sensing elements on one chip, the SGP30 provides more detailed information about

The air quality. For more technical information, please refer to our wiki [Grove - VOC and eCO2 Gas Sensor(SGP30)](). Click and check how it works with Raspberry Pi!

Application:

- Indoor air quality monitoring
- Air purifier
- Demand-controlled ventilation

Technical Details:

Dimensions	0mm x0mm x0mm
Weight	G.W 9g
Battery	Exclude
Working Voltage	3.3V/5V
Output range	TVOC-0 ppb to 60000ppb / CO_2eq - 400 ppm to 60000 ppm
Sampling rate	1HZ
IIC address	0X58

Part List

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

ECCN/HTS

HSCODE	9027900000
USHSCODE	9031808070
UPC	841454120834