



Grove - CO2 & Temperature & Humidity Sensor (SCD30)

SKU 101020634

★★★★★

- 1 +

CN Warehouse



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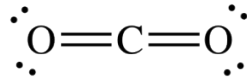
The Grove - CO2 & Temperature & Humidity Sensor (SCD30) is a high precision carbon dioxide sensor, which is based on Sensirion SCD30. The measuring range of this sensor is 0 ppm-40000 ppm, and the measurement accuracy can reach to $\pm(30 \text{ ppm} + 3\%)$ between 400ppm to 10000ppm.

In addition to the [Non-Dispersive Infrared\(NDIR\)](#) measurement technology for CO2 detection, the SCD30 integrates Sensirion humidity and temperature sensors on the same sensor module.

You can see that there is a monkey face graphic on the module, actually, this is a carbon dioxide molecular model. As you can see, the 4 valence electrons on each oxygen atom and also the covalent bonds between the carbon and oxygen atoms are clearly shown.



Here is a lewis structure of the CO2 molecule:



Tip

We've released the [Seeed Gas Sensor Selection Guide](#), it will help you choose the gas sensor that best suits your needs.

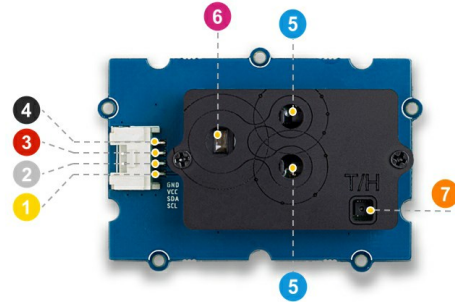
Features

- NDIR CO2 sensor technology
- Integrated temperature and humidity sensor
- Best performance-to-price ratio
- Dual-channel detection for superior stability
- Digital interface I2C

Application Ideas

- Air Purifier
- Environmental Monitoring
- Plant Environmental Monitoring

Pinout



- ① GND: connect this module to the system GND
- ② VCC: you can use 5V or 3.3V for this module
- ③ SDA: I2C serial data
- ④ SCL: I2C serial clock

- ⑤ CO2 Sensor Opening
- ⑥ Infrared Light Source
- ⑦ Temperature & Humidity Sensor Opening

ECCN/HTS

ECCN	EAR99
HS CODE	9027100090
UPC	

Company

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