

INDUSTRIAL PRODUCT DATASHEET

Grove - CO2 & Temperature & Humidity Sensor (SCD30) - NDIR technology, algorithms, ideal for Smart Ventilation System

A 3-in-1 NDIR CO2, temperature, and humidity sensor with high accuracy, wide range, and Grove-compatible I2C interface for stable and easy integration.

SKU

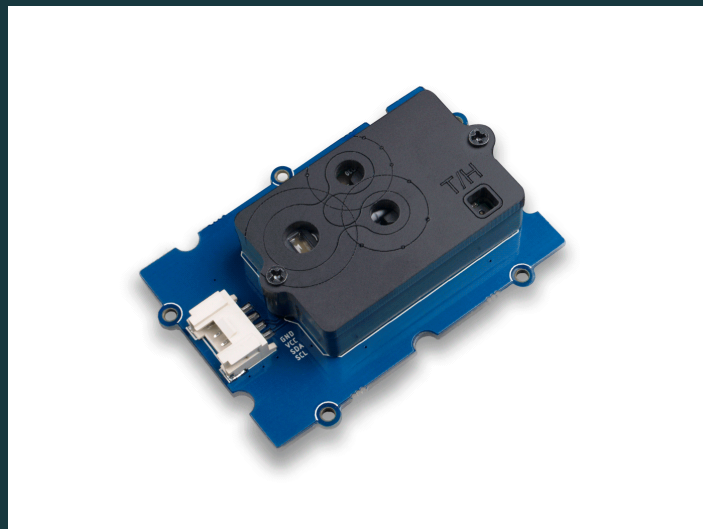
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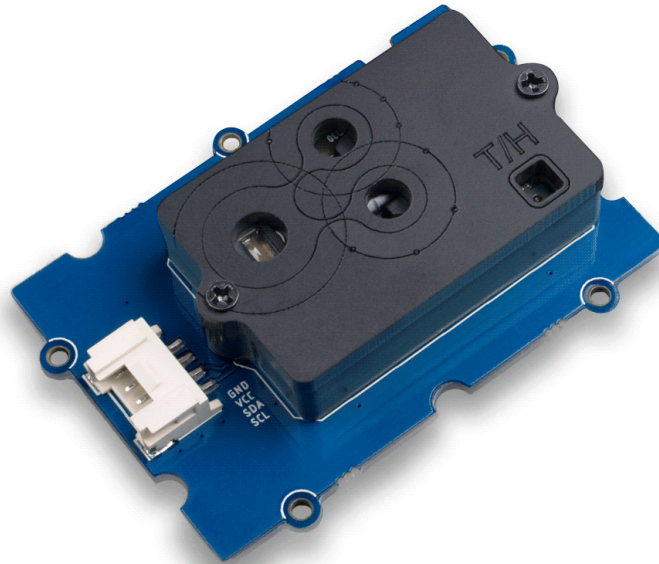
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PRICE

\$59.99(Excl. VAT)



Overview

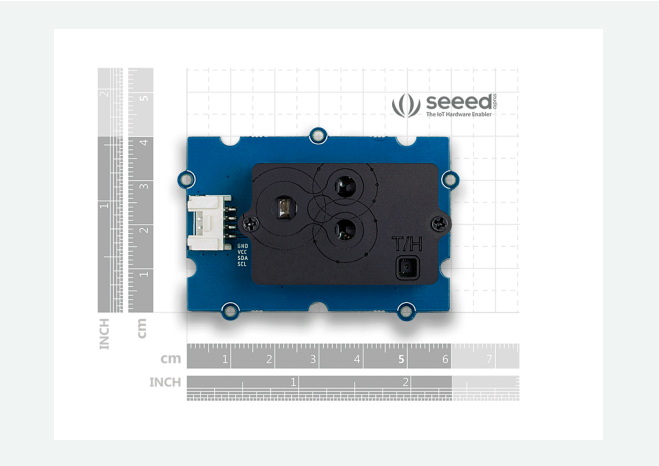
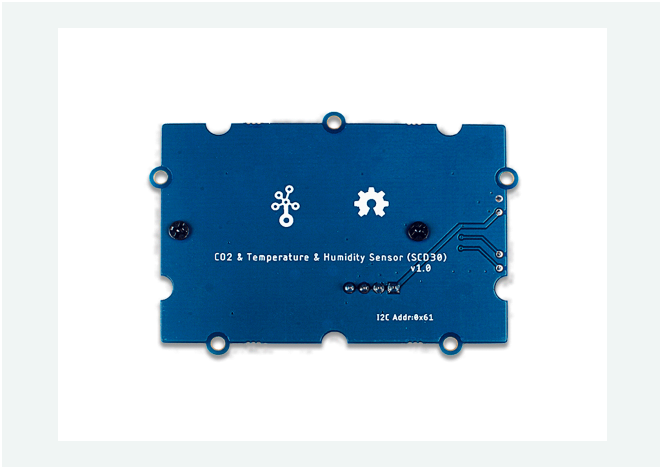
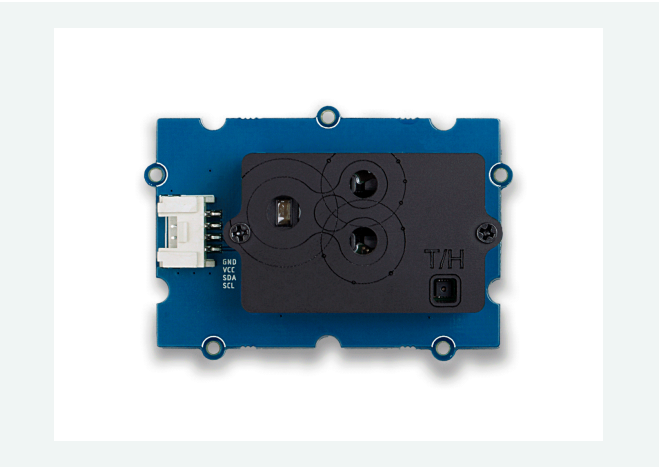


The Grove - CO2 & Temperature & Humidity Sensor (SCD30) uses NDIR technology with embedded Sensirion SCD30, delivering an accuracy of $\pm(30 \text{ ppm} + 3\%)$ across 400 ppm to 10,000 ppm. This 3-in-1 sensor also integrates temperature and humidity sensing with algorithms for external heat source compensation, while dual-channel CO2 detection ensures outstanding stability and an I2C digital interface enables easy project operation.

Key Features

- **NDIR CO2 sensor technology:** Embedded Sensirion SCD30 enables a high accuracy of $\pm(30 \text{ ppm} + 3\%)$ and a wide measurement range of 400ppm to 10'000ppm
- **3-in-1 environmental sensor:** Integrated humidity and temperature sensor comes with algorithm that can output data through modeling and compensating of external heat sources
- **Outstanding stability:** Dual-channel detection of carbon dioxide concentration
- **Easy project operation:** Digital interface I2C, Breadboard-friendly, Grove compatible

Product Gallery



Compliance & Logistics

HSCODE	9027100090
USHSCODE	9027106000
UPC	841454122166
EUHSCODE	9027109000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-CO2-Temperature-Humidity-Sensor-SCD30-p-2911.html>
- [Grove - CO2 & Temperature & Humidity Sensor \(SCD30\) Schematic file](#)
- [SCD30 Design-In Guideline](#)
- [SCD30 Datasheet](#)
- [SCD30 Interface Description](#)
- [Community Innovations: A Showcase of Sensirion-Based Grove Projects](#)

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