# Grove CO2 & Temperature & Humidity Sensor SCD41



The Grove - CO2 & Temperature & Humidity Sensor - SCD41 is a small but powerful module which made by Sensirion. It is a multiple function sensor which can measure temperature, pressure, humidity and CO2 at the same time. It is based on the SCD4 module and you

can use this sensor in your GPS, IoT devices or other device which needs those four parameters.

# Get One Now 📜

[https://www.seeedstudio.com/Grove-CO2-Temperature-Humidity-Sensor-SCD41-p-5025.html]

# Features

- 3-in-1 for multiple measurement
- low power consumption
- Wide measurement range
- I2C Interface
- Wide power supply range

# Specification

| ltem            | Value                               |
|-----------------|-------------------------------------|
| Working voltage | 2.4V~5V                             |
| Operating range | -10~+60°C; 0-100% r.H.; 0-40,000ppm |
| I2C Address     | 0x62                                |

# Hardware Overview

# Pin Map



# Platforms Supported



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#### Caution

The platforms mentioned above as supported is/are an indication of the module's software or theoritical compatibility. We only provide software library or code examples for Arduino platform in most cases. It is not possible to provide software library / demo code for all possible MCU platforms. Hence, users have to write their own software library.

# Getting Started

### **Play With Arduino**

#### Hardware

#### **Materials required**



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#### Note

1 Please plug the USB cable gently, otherwise you may damage the port. Please use the USB cable with 4 wires inside, the 2 wires cable can't transfer data. If you are not sure about the wire you have, you can click here [https://www.seeedstudio.com/Micro-USB-Cable-48cm-p-1475.html] to buy **2** Each Grove module comes with a Grove cable when you buy. In case you lose the Grove cable, you can click here

[https://www.seeedstudio.com/Grove-Universal-4-Pin-Buckled-20cm-Cable-%285-PCs-pack%29-p-936.html] to buy.

- Step 1. Connect the Grove CO2 & Temperature & Humidity Sensor - SCD41 to port I<sup>2</sup>C of Grove-Base Shield.
- Step 2. Plug Grove Base Shield into Seeeduino.
- Step 3. Connect Seeeduino to PC via a USB cable.



#### Note

If we don't have Grove Base Shield, We also can directly connect this module to Seeeduino as below.

| Seeeduino | Grove - CO2 & Temperature & Humidity Sensor - SCD41 |
|-----------|---|
| 5V        | Red   |
| GND       | Black   |
| SDA       | White   |
| SCL       | Yellow  |

#### Software

### Note

If this is the first time you work with Arduino, we strongly recommend you to see Getting Started with Arduino

[https://wiki.seeedstudio.com/Getting\_Started\_with\_Arduino/] before the start.

• Step 1. Download the arduino-i2c-scd4x

[https://github.com/Sensirion/arduino-i2c-scd4x] library and arduino-core [https://github.com/Sensirion/arduino-core] dependency from Github.

- Step 2. Refer to How to install library
   [https://wiki.seeedstudio.com/How\_to\_install\_Arduino\_Library]
   to install library for Arduino.
- Step 3. Restart the Arduino IDE. Open Sensirion I2c SCD4x example via the path: File → Examples → Sensirion I2c SCD4x → exampleUsage.

| New       Ctrl+N         Open       Ctrl+O         Open Recent       >         Sketchbook       >         Examples       >         Colose       Ctrl+W         Save As       Ctrl+Shift+S         Page Setup       Ctrl+Shift+P         Print       Ctrl+P         Preferences       Ctrl+Q         PiDwFF       >         PUbwFF       >         Seeed Arduino Audio       >         Seeed Arduino rpcUnified       >         Seeed Arduino rpcUnified       >         Seeed Arduino I2C SCD4x       exampleUsage         Servo       >  | File | Edit Sketch | Tools Help    |   |                          |      |              |  |
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| Time >  |      |             |               |   | SSD1306ASCII             | >    |              |  |
|   |      |             |               |   | Time                     | >    |              |  |

- Step 4. Upload the demo. If you do not know how to upload the code, please check How to upload code
   [https://wiki.seeedstudio.com/Upload\_Code/].
- Step 5. Open the Serial Monitor of Arduino IDE by click Tool->
   Serial Monitor. Or tap the Ctrl+Shift+M key at the same time. if every thing goes well, you will get the result.

The result should be like:



#### Bug

• To get the stable and accurate value, you need to let the arduino run the code for about 2 hours. The result is much more reliable then.

# Play on RaspberryPi

#### **Materials required**



## Get ready for RaspberryPi

#### **I2C Connection**

- **Step 1.** Plug Grove CO2 & Temperature & Humidity Sensor SCD41 to **I2C** port of Grove Base Hat.
- Step 2. Plug Grove Base Hat into RaspberryPi.
- **Step 3.** Connect RaspberryPi to a PC via Serial or SSH.



| $\bigcirc$ | _ |    |  |
|------------|---|----|--|
|            |   |    |  |
| UV<br>VV   |   |    |  |
|            |   |    |  |
|            |   |    |  |
| <u> </u>   |   | BO |  |
|            |   |    |  |
| 00         |   |    |  |

| 3V3 power        | o <u> </u> | 02      | o | 5V power           |
|------------------|------------|---------|---|--------------------|
| GPIO 2 (SDA)     | o          | 3 4     | o | 5V power           |
| GPIO 3 (SCL)     | o <u> </u> | 56      | o | Ground             |
| GPIO 4 (GPCLK0)  | o          | 78      | o | GPIO 14 (TXD)      |
| Ground           | o <u> </u> | 9 🕕     | o | GPIO 15 (RXD)      |
| GPIO 17          | o <u> </u> | 1) (2)  | 0 | GPIO 18 (PCM_CLK)  |
| GPIO 27          | o <u> </u> | 13 14   | 0 | Ground             |
| GPIO 22          | o <u> </u> | 15 (6   | 0 | GPIO 23            |
| 3V3 power        | o <u> </u> | 17 18   | 0 | GPIO 24            |
| GPIO 10 (MOSI)   | o <u> </u> | 19 20-  | 0 | Ground             |
| GPIO 9 (MISO)    | o          | 2) 22   | 0 | GPIO 25            |
| GPIO 11 (SCLK)   | o <u> </u> | -23 23- | 0 | GPIO 8 (CE0)       |
| Ground           | o <u> </u> | 25 26   | 0 | GPIO 7 (CE1)       |
| GPIO 0 (ID_SD)   | o          | 27 23   | 0 | GPIO 1 (ID_SC)     |
| GPIO 5           | o <u> </u> | 29 30   | 0 | Ground             |
| GPIO 6           | o <u> </u> | 3) 32   | 0 | GPIO 12 (PWM0)     |
| GPIO 13 (PWM1)   | o          | 33 34   | o | Ground             |
| GPIO 19 (PCM_FS) | o          | -35 36- | 0 | GPIO 16            |
| GPIO 26          | o          | 37 33   | 0 | GPIO 20 (PCM_DIN)  |
| Ground           | o          | - 69 40 | 0 | GPIO 21 (PCM_DOUT) |
|                  |            |         |   |                    |

#### Software

• Step 1. Enable I2C on RaspberryPi



Follow the pictures to enable I2C and SPI on your RaspberryPi.





| Would you like the ARM I2C interface to be enabled? |   |
|---|---|
| Ress <no></no>                                      | Would you like the ARM I2C interface to be enabled? |
| Ries No>  |   |
|   | ۲۹۵۶ «No»   |
|   |   |

And then reboot your RaspberryPi



• Step 2. Install necessary libraries

sudo apt-**get** install wget gcc make unzip -y

Install WiringPi Library

If you use WiringPi, you need to update WiringPi to version 2.52. This library may not be updated. Other libraries are recommended



#### Install bcm2835



For further information and the newest libraries please refer to website: bcm2835 [http://www.airspayce.com/mikem/bcm2835/]

- Step 3. Download the driver from the Sensirion GitHub Page [https://github.com/Sensirion/raspberry-pi-i2c-scd4x/tags] and extract the .zip on your Raspberry Pi
- Step 4. Compile the driver
- **1**.Open a terminal
- 2.Navigate to the driver directory. E.g. cd ~/raspberry-pi-i2c-scd4x
- 3. Run the make command to compile the driver

Output:



• Step 5. Test your connected sensor

Run ./scd4x\_i2c\_example\_usage in the same directory you used to compile the driver.

#### Output:



For further infomation, please check Sensirion/raspberry-pi-i2cscd4x on GitHub [https://github.com/Sensirion/raspberry-pi-i2cscd4x].

Schematic Online Viewer

# Resources

- [PDF] Sensirion CO2 Sensors SCD4x Datasheet
   [https://files.seeedstudio.com/wiki/Grove CO2&Temperature&HumiditySensor SCD4/res/Sensirion\_CO2\_Sensors\_SCD4x\_Datasheet.pdf]
- **[STEP]** STEP of Sensirion CO2 Sensors SCD4x [https://files.seeedstudio.com/wiki/Grove-

CO2&Temperature&HumiditySensor-SCD4/res/Sensirion\_CO2\_Sensors\_SCD4x\_STEP\_file.step]

 [ZIP] Grove - CO2 & Temperature & Humidity Sensor - SCD41 Board File [https://files.seeedstudio.com/wiki/Grove-CO2&Temperature&HumiditySensor-SCD4/res/SCH&PCB.zip]

# Tech Support

# Please do not hesitate to submit the issue into our forum [https://forum.seeedstudio.com/].



[https://www.seeedstudio.com/act-4.html? utm\_source=wiki&utm\_medium=wikibanner&utm\_campaign=newpr oducts]