

Setup

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Getting Started

Please refer to the [general getting started](#) article

Sensor Definitions

Once added to Home Assistant you can configure different settings for your sensor. Below is what each setting does.

Controls

- **RGB Light**
 - 3 RGB Neopixels. Click on the light bulb to change the color. Click on the toggle to turn on or off
- **Calibrate SCD40**
 - Refer to the [CO2 calibration guide](#). Place your sensor outside and click this button to calibrate the CO2 levels

Sensors

- **Ammonia**
 - Measurement from MiCS-4514 gas sensor
- **Carbon Monoxide**
 - Measurement from MiCS-4514 gas sensor
- **CO2**
 - True CO2 reading from the SCD40. This will be Unknown if you do not have the CO2 module. This can be calibrated following this guide but does come precalibrated:
[Here](#)
- **DPS310 Pressure**
 - Atmospheric pressure, used to better calibrate the SCD40 CO2 module
- **DPS310 Temperature**
 - A worse measurement of temperature. This is more susceptible to internal heat buildup. Please use the SEN55 temperature
- **ESP Temperature**
 - This is the temperature of the internal ESP chip. Think of it like your measured CPU temp on your PC
- **Ethanol**
 - Measurement from MiCS-4514 gas sensor
- **Hydrogen**
 - Measurement from MiCS-4514 gas sensor
- **Methane**
 - Measurement from MiCS-4514 gas sensor
- **Nitrogen Dioxide**

- Measurement from MiCS-4514 gas sensor
- **PM < 10 µM**
 - Measurement of particulates **smaller** than 10 µM
- **PM < 1 µM**
 - Measurement of particulates **smaller** than 1 µM
- **PM < 2.5 µM**
 - Measurement of particulates **smaller** than 2.5 µM
- **PM < 4 µM**
 - Measurement of particulates **smaller** than 4 µM
- **SEN55 Humidity**
 - Humidity measurement from SEN55, will be most accurate
- **SEN55 NOX**
 - Measurement of nitrogen oxides from the SEN55
- **SEN55 Temperature**
 - Measurement of temperature from the SEN55, will be most accurate
- **SEN55 VOC**
 - VOC index from the SEN55
- **VOC Quality**
 - This uses the VOC index and a scale to output an easier to use variable
 - 0-79: Improved
 - 80-119: Normal
 - 120-199: Abnormal
 - 200-299: Very abnormal
 - 300+: Extremely abnormal
- **PM 0.3 To 1 µm**
 - Disabled by default but can be enabled in HA. Shows particulate count that are from 0.3 to 1.0 µm
- **PM 1 To 2.5 µm**
 - Disabled by default but can be enabled in HA. Shows particulate count that are from 1 to 2.5 µm
- **PM 2.5 To 4 µm**
 - Disabled by default but can be enabled in HA. Shows particulate count that are from 2.5 to 4.0 µm
- **PM 4 To 10 µm**
 - Disabled by default but can be enabled in HA. Shows particulate count that are from 4.0 to 10.0 µm

Configuration

- **ESP Reboot**
 - Performs a restart of the sensor
- **SEN55 Temperature Offset**
 - Allows you to calibrate the SEN55 temperature. Please refer to our [calibration guide](#)
- **SEN55 Humidity Offset**

- Allows you to calibrate the SEN55 humidity. Please refer to our [calibration guide](#)
- Startup Light Blink
 - Controls if the led blinks after power on when trying to connect to HA

[AIR-1 Sensor Data.jpg](#)
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Bluetooth Tracking With AIR-1

Please refer to the [general Bluetooth tracking](#) article

Adding The SCD40 CO2 Sensor To The AIR-1

https://www.youtube.com/embed/ZKGwc2ZSMrw?si=Hg9AbRB6cj_Ogl89

1. Unplug your AIR-1 from power and remove the back

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2. At the bottom center there is a black connector. There is an x in the lower right corner of the connector

3. Orientate the CO2 module so the white x on the module is also in the lower right and the gold dot is in the upper left as seen below

4. Align the connector on the back of the CO2 module with the connector on the AIR-1. Once aligned, push down so the CO2 module fully seats itself

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5. Put your AIR-1 cover on. Please refer to our [CO2 calibration guide](#) to calibrate the CO2 module.

Adding The MiCS-4514 Gas Sensor To The AIR-1

1. Unplug your AIR-1 from power and follow the video

https://www.youtube.com/embed/ZKGwc2ZSMrw?si=Hg9AbRB6cj_Ogl89

How To Change The Update Frequency Of Sensors

[How To Change The Update Frequency Of Sensors](#)