

# 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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