

Calibrating And Updating

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Updating Firmware

Updating Through ESPHome Addon

1. In HomeAssistant open the [ESPHome addon](#)
2. Or click this to [Open your Home Assistant instance and show the dashboard of the ESPHome add-on.](#)
3. Make sure you are running the latest version of ESPHome
4. On older hardware, it will not auto-update so you will have to uninstall and reinstall ESPHome
5. Find the sensor you want to update and click the three dots in the bottom right

[Firmware1.png](#) type unknown

5. Select “Validate” from the list

[Firmware2.png](#) type unknown

6. Once the validation completes, click “Install” in the bottom right

[Firmware3.png](#) type unknown

7. Complete!

CO2 Calibration

1. Take your sensor outside (for a walk :D) and plug it in. Make sure it is connected to Home Assistant and let it sit powered on for 3-5 minutes outside before starting the calibration.

[CO2_1.png](#) Image not found or type unknown

2. Navigate to your Home Assistant Dashboard and select settings

[CO2_2.png](#) Image not found or type unknown

3. Select Devices & Services

[CO2_3.png](#) Image not found or type unknown

4. Select ESPHome

[CO2_4.png](#) Image not found or type unknown

5. Find your sensor and click on the blue "1 device" link

[CO2_5.png](#) Image not found or type unknown

6. Press the Calibrate SCD40 button and you are all set!

If you do not see this button, either [update your firmware](#) or refer to this [older revision](#)

It can take a few times clicking the calibrate for it to equalize correctly. If you don't see the SCD40 reporting 400-500 ppm then click it again.

[Button CO2 Calibration.png](#) Image not found or type unknown

7. Now your CO2 sensor should be calibrated! Be sure to setup some nice cards on your dashboard so you can monitor the CO2 levels. My bedroom's CO2 levels got dangerously high and I had to run my HVAC more frequently at night to circulate the air. See examples of cards and data below.

Example Home Assistant Card

[CO2_7.png](#) Image not found or type unknown

Dangerous CO2 levels in bedroom. Steep decline in level due to opening door, window and running fan.

[CO2_8.jpg](#)
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Wisconsin Department of Health CO2 Level Chart

[CO2 Health Department.png](#)
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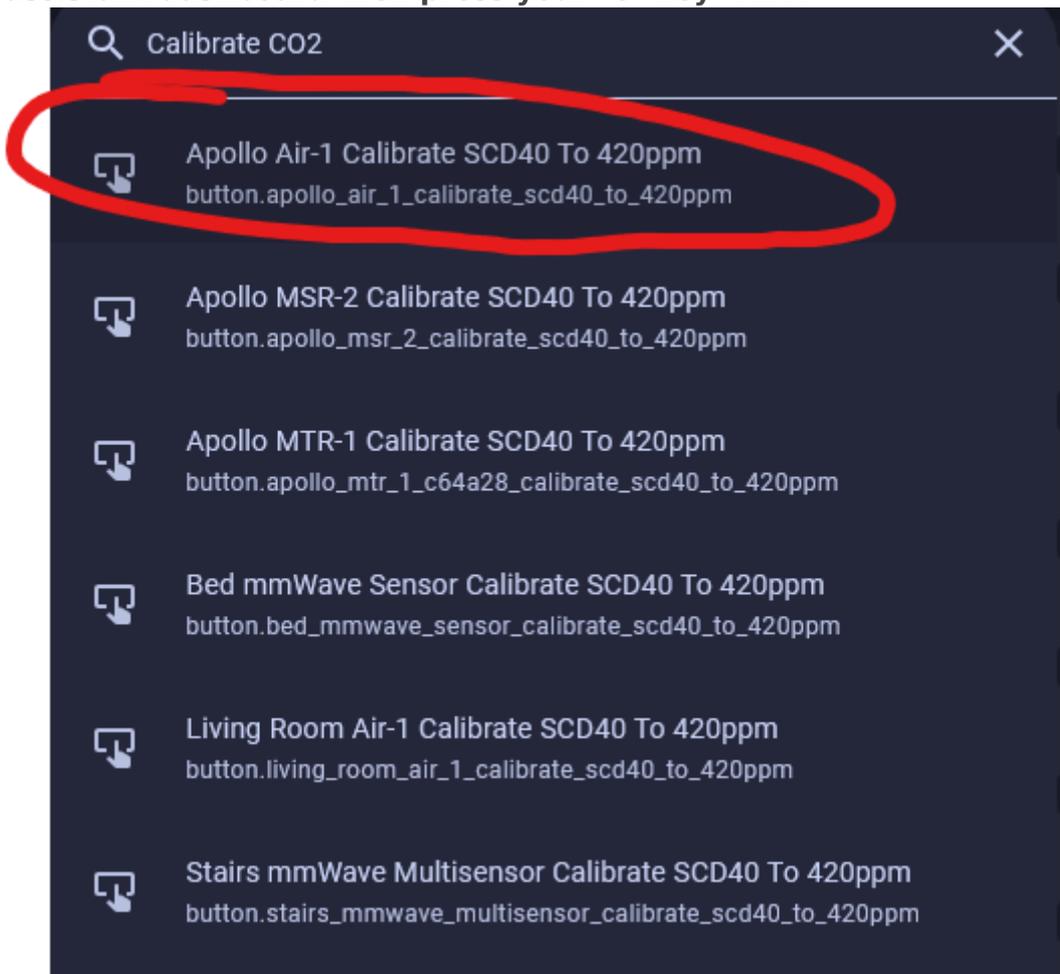
CO2 levels staying below 1500 ppm after changing HVAC fan schedule to circulate air more frequently. Need to increase air exchange to get below 1000 ppm for a safer environment.

[Plotly CO2 Graph.png](#)
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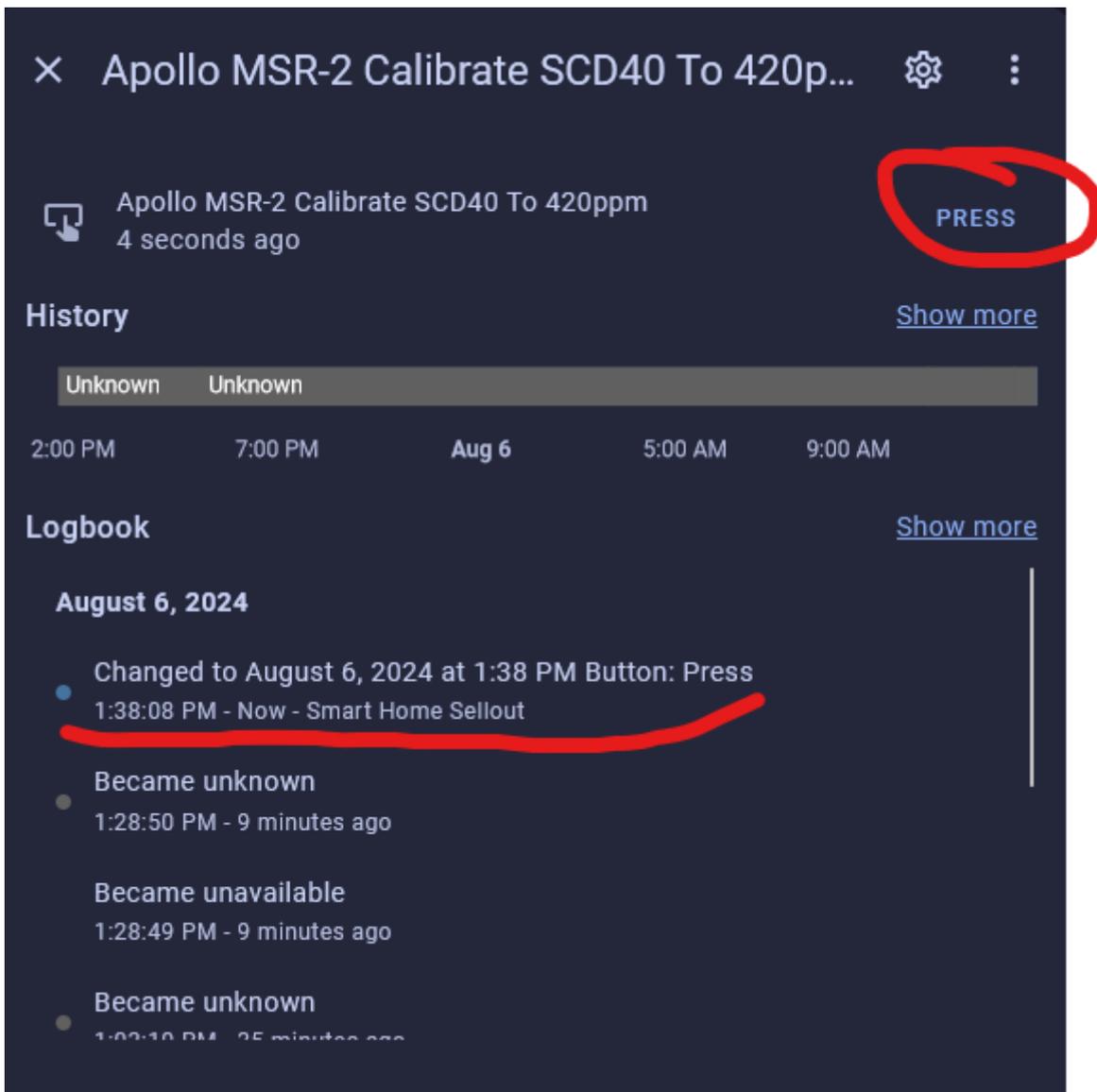
CO2 Calibration - The Quick method - Desktop Only not mobile

This article will guide you through a simple calibration of your CO2 sensor for any Apollo Automation device!

1. Go to your home assistant dashboard and hit the letter "e" - It will pop up with an entity filter and here we will type in "Calibrate CO2" and select the correct device.
HINT* If you cannot get this menu to pop-up, click somewhere on the home assistant dashboard then press your "e" key *HINT



2. **DO NOT RUSH THIS** Go Plug your sensor in outside and let it sit for 5 minutes or more to get normalized readings **DO NOT RUSH THIS**
3. Click on the button that says "PRESS" and then you are done.



4. Go get your sensor from outside and plug your sensor in wherever you want it!