



CO2 Weather station - case for Wemos, SSD1306, Senseair S8, MH-Z19

 localhorst

[VIEW IN BROWSER](#)

updated 17. 3. 2023 | published 17. 3. 2023

Summary

This is a housing for Wemos D1 mini, BMP280, SMT21 and Senseair S8 or MH-Z19 CO2 sensors



13.73 hrs



2 pcs



0.15 mm



0.40 mm



PLA



83 g



Prusa MINI /
MINI+

[Gadgets](#) > [Other Gadgets](#)

Tags: [wemosd1mini](#) [co2](#) [weatherstation](#) [wemosd1minicase](#)
[co2sensor](#) [senseair](#)

This is a housing for:

- Wemos D1 Mini / ESP8266 ESP-12
- 0,96" OLED Display I2C SSD1306
- CO2: Senseair S8 as well as MH-Z19 is fitting

- I've soldered a BMP280 and a SHT21 for temperature and humidity together
Used DuPont cables
Many inspiration by: <https://emariete.com/en/diy-co2-monitor-wifi/>
- Printed on a Prusa Mini+
- Prusament PLA (Opal Green, Vanilla White, Royal Blue)
- Infill 15%
- Printed from the surface where the display is located (top down)
- Support needed
- 0,15 steps

From my jobs I know how to create 3D models, but as I'm a newbie in printing, please be gentle if I made mistakes in it and give me feedback how to do it it better or optimize it - thank you!

If you need more information on the electronics, please let me know.

Model files



housing_v2-body.stl



housing_deckel.stl



housing_deckel.3mf



housing_v2-body-2.3mf



housing_v3-body.step



housing_deckel_v2-body.step

Print files



housing_deckel_015mm_pla_mini_2h17m.gcode

PLA 0.40 mm 0.15 mm 2.28 hrs 10 g Prusa MINI / MINI+



housing_v2-body-2_015mm_pla_mini_11h27m.gcode

PLA 0.40 mm 0.15 mm 11.45 hrs 74 g Prusa MINI / MINI+

License ©



This work is licensed under a
[Creative Commons \(4.0 International License\)](#)

Attribution-ShareAlike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition