

## Soil humidity sensor (D1 Mini + 0.96" OLED)

B Buzz

[VIEW IN BROWSER](#)

updated 8. 8. 2022 | published 8. 8. 2022

### Summary

A small WIFI connected plant soil sensor Adding a Wemos D1 Mini and a 0.96" OLED to this Aliexpress Soil Sensor got me...

[Hobby & Makers](#) > [Other Ideas](#)

Tags: [esp32](#) [mqtt](#) [oled](#) [oleddisplay](#) [soilmoisturecase](#)  
[soilmoisturesensor](#) [wemosd1mini](#) [wifi](#)

A small WIFI connected plant soil sensor

Adding a Wemos D1 Mini and a 0.96" OLED to this Aliexpress Soil Sensor got me a Wifi connected soil humidity sensor to upload the Data via MQTT to my database.

The housing is quite simple, with a support for a 6mm wooden stick in the back.

i printed it in PLA without supports

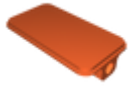
I included also the step and solidworks files, if you want to remix it.

Have fun!

Sebastian

Category: DIY

## Model files



**housing\_back.stl**



**housing\_front.sldprt**



**soilsensor\_front.sldprt**



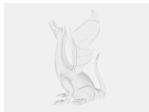
**soilsensor\_front.step**



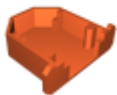
**soilsensor\_back.sldprt**



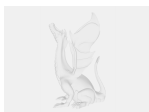
**housing\_front.step**



**housing\_back.sldprt**



**soilsensor\_front.stl**



**oledd1mini.sldprt**



**soilsensor\_back.stl**

---



**housing\_front1.sldprt**

---



**assembly.step**

---



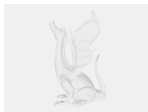
**soilsensor\_back.step**

---



**housing\_front.stl**

---



**housing\_back.step**

[Find source .stl files on Thingiverse.com](#)

## License

This work is licensed under a  
**Creative Commons (4.0 International License)**



### Attribution

---

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

