



# Outdoor Air Quality Monitor Base

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## Summary

A base for an ESP32Dev, PMS5003 air quality sensor, and a DC jack in a 3" ABS pipe

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Tags: [air](#) [esp32](#) [plantower](#) [pms5003](#) [quality](#)

This is base I created for my outdoor air quality monitor project. It is meant to hold an ESP32 microcontroller, Plantower PMS5003, and a DC barrel jack in the bottom of a 3" ABS pipe with a cap as a cover.

I soldered a tiny voltage regulator directly to the DC barrel jack to avoid powering both devices from the integrated regulator on the ESP32. The WiFi antenna is held up in free space for the best range, so the ESP32 goes USB-port-down.

Three notches in the bottom allow driving screws from the edge of the 3" ABS pipe to hold it in place as close to the bottom as you want.

# Model files



outdoor-airmon-r2.stl

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