MONITOR AIR QUALITY WITH
AIR GRADIENT PM 2.5 SENSOR

150
100
200
50
300
0
500
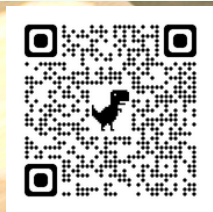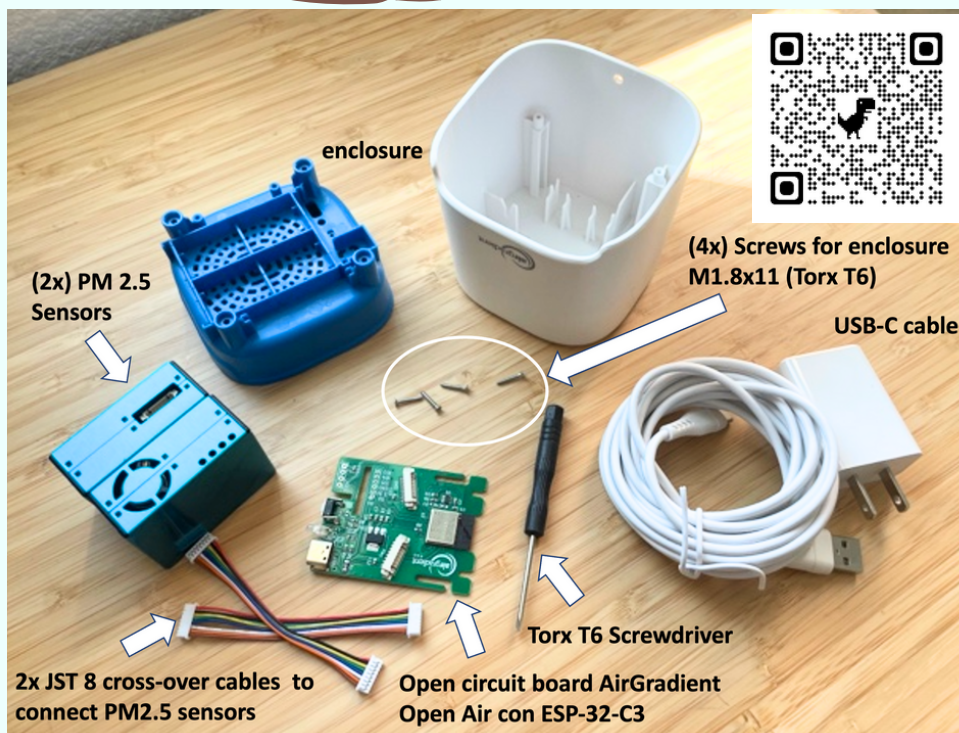**AIR QUALITY INDEX**

Pre-soldered outdoor monitor kit.

The AirGradient Open Air outdoor monitor measures PM2.5, temperature, and humidity.
The measurements can be sent to a server (e.g., AirGradient panel and map or another cloud server) for data logging.

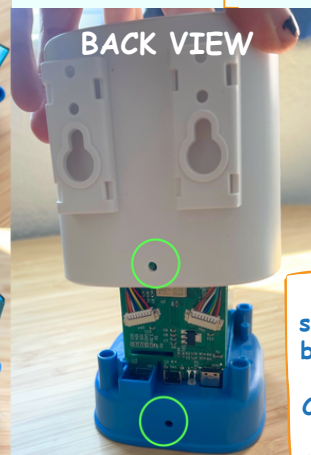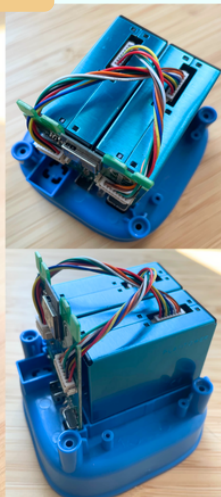Low-cost and accessible - The monitor is entirely hardware and open-source.

PM2.5 = Particulate Matter of size 2.5 micrometers.
Sources - construction, wildfires, wood burning, and agriculture.

enclosure

(2x) PM 2.5 Sensors

(4x) Screws for enclosure M1.8x11 (Torx T6)

USB-C cable

Torx T6 Screwdriver

2x JST 8 cross-over cables to connect PM2.5 sensors

Open circuit board AirGradient Open Air con ESP-32-C3

Assembling

These instructions cover the pre-soldered version of the outdoor monitor kit, version 1.1.

BACK VIEW

BACK VIEW

Cable USB-C

BACK VIEW

*Note: The cables should not be squeezed by the plastic parts of the casing.
Check inside the white casing for any areas that may press on the cables.

1. Connect the PM cables by inserting them into each sensor.
2. Pass them through the slots on the board and connect them securely. Ensure they are fully plugged in at both ends. Repeat for the second sensor.

3. When everything is aligned, carefully slide the casing over the assembly. Do not force it if the cables are tensed.
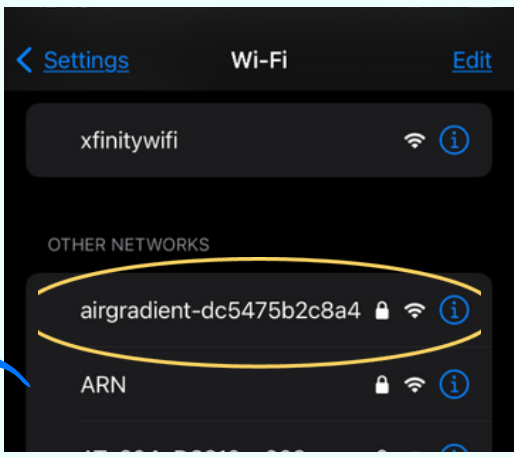
4. Verify that the slots on both parts are aligned. Then, use the 4x screws to close the casing.

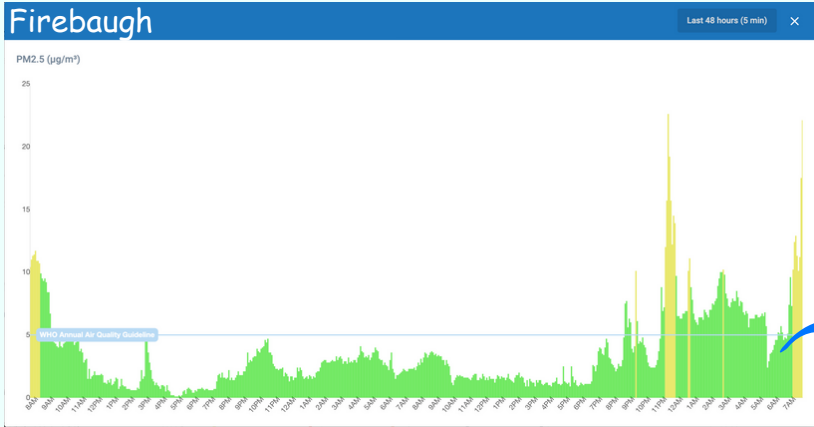video del montaje por Air Gradient (Inglés/English)

Connecting to sensor

5. Once you have assembled the kit, you can power it on simply by connecting the USB C cable.

< Settings   Wi-Fi   Edit

xfinitywifi   🛜 ⓘ

OTHER NETWORKS

airgradient-dc5475b2c8a4 🔒 🛜 ⓘ

ARN   🔒 🛜 ⓘ

Connecting the sensor to WiFi: When you turn on the sensor for the first time, the LED will light up, and the sensor will open a internet network named 'AG-xxx'. xxx indicates the sensor's serial number.

6. Take note of the serial number that appears in the hotspot name. Send this to SEEN.

> Note: SEEN needs this information to include the sensor in the database (dashboard).
> Your information will be kept private.

Firebaugh   Last 48 hours (5 min)   X
PM2.5 (µg/m³)

7. Connect your sensor to your internet using your network's password.
Connect within 90 seconds or less. If not, the hotspot will disappear, and you'll need to restart the process.

Installing

FRONT VIEW

8. Mount the sensor outdoors, protected from direct sunlight. Remember, it must be connected to power.

AIR FLOW

Accessible air quality network

Join us in expanding the air quality network in the valley and monitoring the air quality of your community.

Additional resources

APPLY FOR YOUR UNIT HERE!

The Clean Air Rooms Program of the district provides free filtration units to Valley residents. (*Unit availability may be limited by seasons*)

💲 **Currently Accepting Applications in the AB 617 communities of Shafter, Fresno & Stockton**
Apply Now

ESTAN ACEPTANDO!

Sponsored by:

CalEPA California Environmental Protection Agency

In collaboration with:

airgradient

For more information, contact us:

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SocioEnvironmental and Education Network

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