

PurpleAir Installation & Maintenance Training

Climate Pollution Reduction Grant Implementation 2026





Installation (Set-Up) Process

Site Confirmation Process



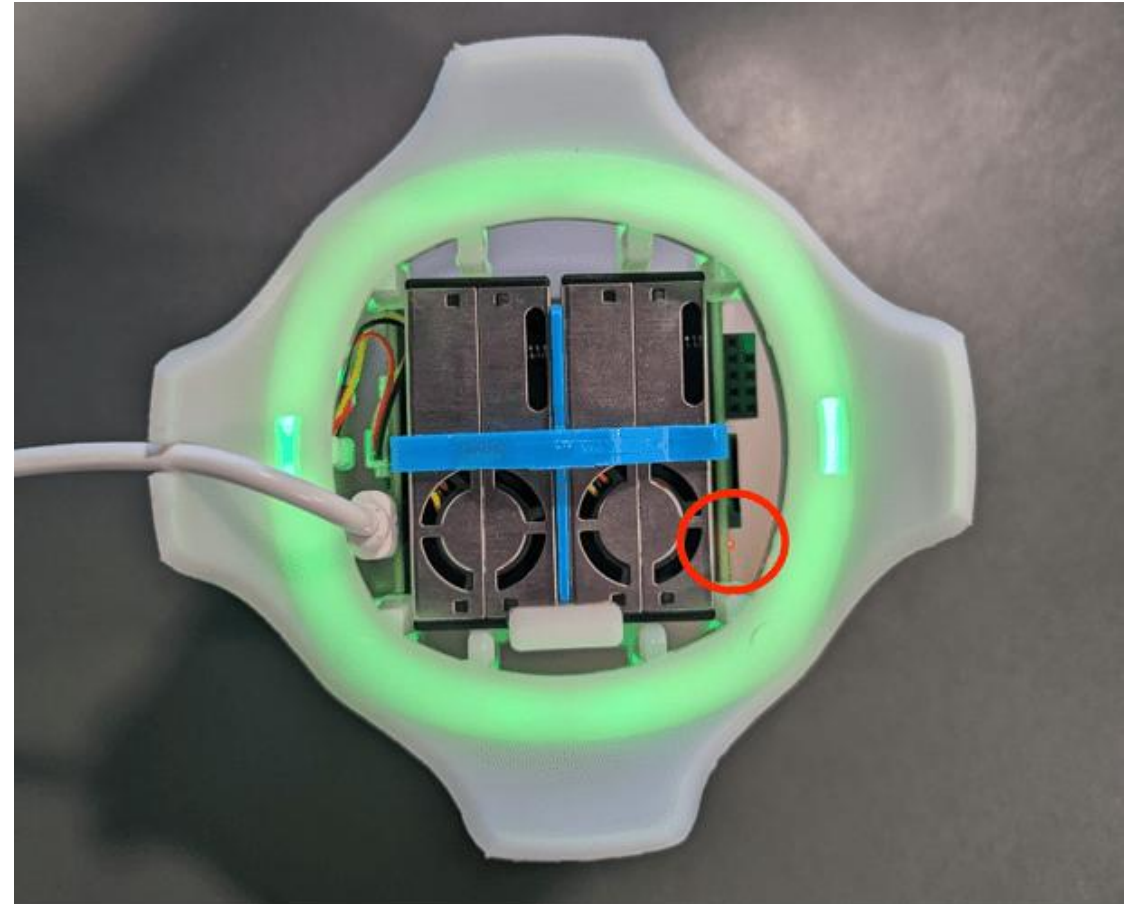
- Confirm Site:
 - Identify property manager
 - Confirm site has strong Wi-Fi signal and an outdoor power source
 - Have site representative sign lease agreement for site
- Receive Training:
 - Sign acknowledgement of training



Installation (Set-Up) Process

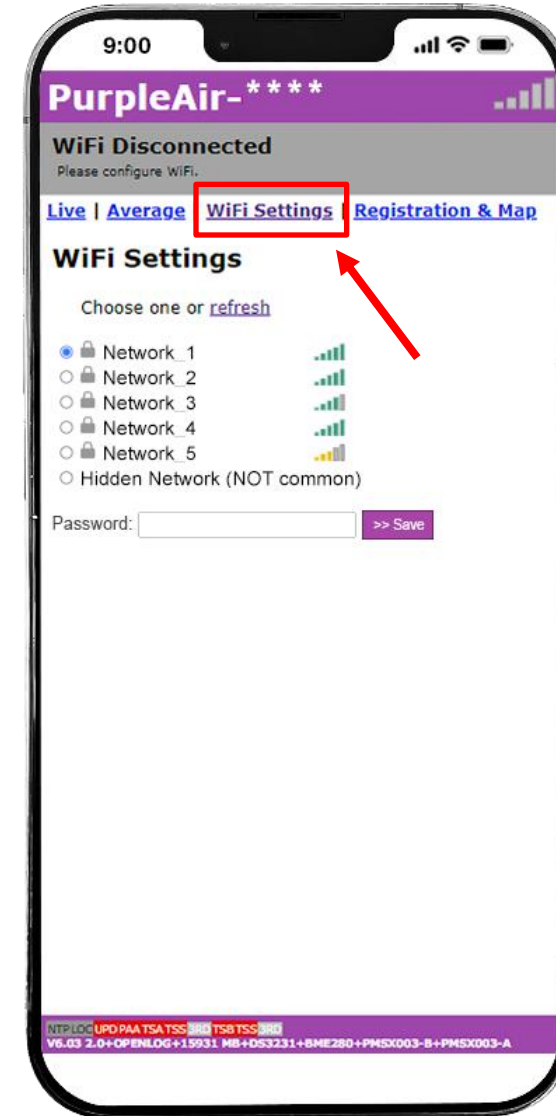
- **Step 1: Power on your PurpleAir sensor:**
 - Plug your sensor into the outdoor power outlet
 - The sensor will light up green, and a red LED light will be visible inside the PurpleAir sensor when powered on

PurpleAir Zen sensor powered on with active red LED light



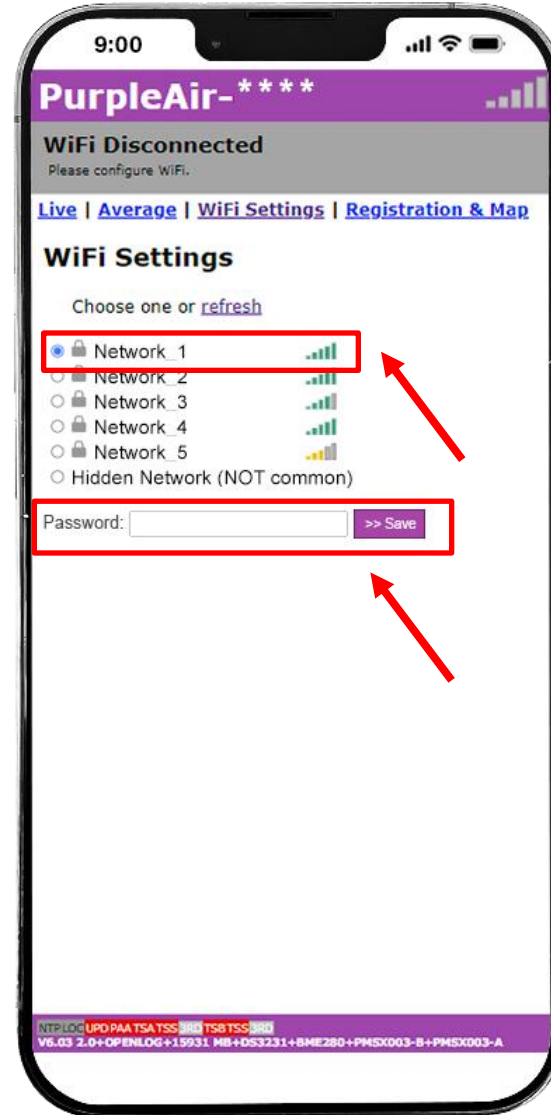
Installation (Set-Up) Process

- **Step 2: Connect to sensor's network:**
 - When powered on, sensor will broadcast a Wi-Fi network called *PurpleAir-***** after 10 minutes max.
 - Connect to this network to see the configuration page through your phone or laptop
 - Click “WiFi Settings” in the top menu if not automatically directed here



Installation (Set-Up) Process

- **Step 3: Connect your sensor to the Local Wi-Fi:**
 - Select your Wi-Fi network from the list
 - Enter its Wi-Fi password in the box at the bottom of list
 - Click “>>Save” to connect to Wi-Fi
 - Confirm Wi-Fi is connected (see screenshot)



Your phone/laptop screen will update to show one of these statuses

WiFi Connected Looking good!

WiFi Connected
Looking good!

This message means your sensor has successfully connected! Continue to Step 5 below.

WiFi Connected Checking Status...

WiFi Connected
Checking Status...

This message most likely means your sensor has successfully connected, but it may also mean that it doesn't have internet access. If the latter is true, it can be resolved later on. Continue to Step 5 below.

WiFi Disconnected Please configure WiFi.

WiFi Disconnected
Please configure WiFi.

This message most likely means the password you input was incorrect. Please double-check your password, and enter it again. If this doesn't resolve the issue, go to [WiFi Password Troubleshooting](#) in our WiFi Troubleshooting guide.

Installation (Set-Up) Process



- **Step 4: Disconnect from the PurpleAir-**** Network**
 - Close the configuration page on your phone/laptop
 - Open the Wi-Fi settings for your phone/laptop
 - Disconnect from the *PurpleAir-***** network



Installation (Set-Up) Process

- **Step 5: Register your sensor:**

- Go to

- www.purpleair.com/register

- Add the Device-ID (found on side of sensor)

- Add Associated Email
(act@capcog.org)



Device Identification
Device-Id *
Printed on your device label above the barcode. Leading zeros are removed automatically.

Associated Email *
The email used when purchasing this device.

Device-Id and Associated Email are related.

Next

Installation (Set-Up) Process

- **Step 6: Register your sensor:**

- Add this email as the “Owner’s Email”:
 - aircentraltexas@gmail.com
- Add “**CAPCOG**” as the “Owner’s Name”
- Add your phone number as the “SMS Alert Phone Number”

Owner Information
This information is used to manage and communicate about your device.

Owner's Email *
If this is a Google or Google-associated email, signing in lets you manage this sensor and view it on the map if privately registered. Changing this later requires contacting Support by email. [Read here for more information](#)

Name *
Used for alert notifications.

Phone
Used for text alert notifications (optional).

Installation (Set-Up) Process

- **Step 7: Register your sensor:**

- Set the location as “Outside”
- Add site name plus “_CPRG”
 - I.e. CAPCOG Office_CPRG
- Set visibility to “Public”
- Use the map to set your location.
- Click “Next”

Location Settings

Location Type *
Whether the sensor is installed outdoors or indoors. Both appear on the PurpleAir Map; indoor sensors have a black border around the marker.

☒ Outside ☐ Inside

Sensor Name *
Visible when your sensor is selected on the PurpleAir Map.

1baa

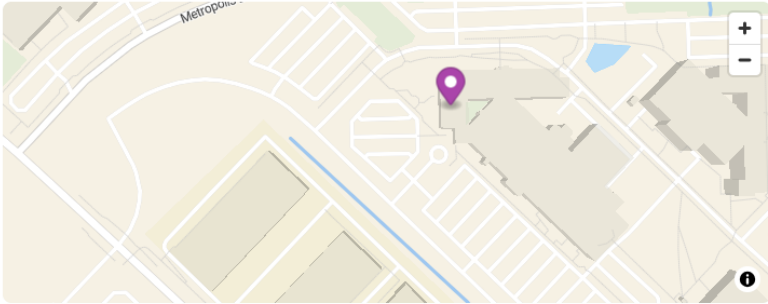
Visibility *
Public sensors appear on the map for everyone. Viewing a private sensor requires either using a special link emailed to you after registration, or signing in with the owner's Google or Google-associated email. [Read here for more information](#)

☒ Public ☐ Private

☒ Set a location on the map

Latitude * **Longitude ***

30.202500 -97.705575

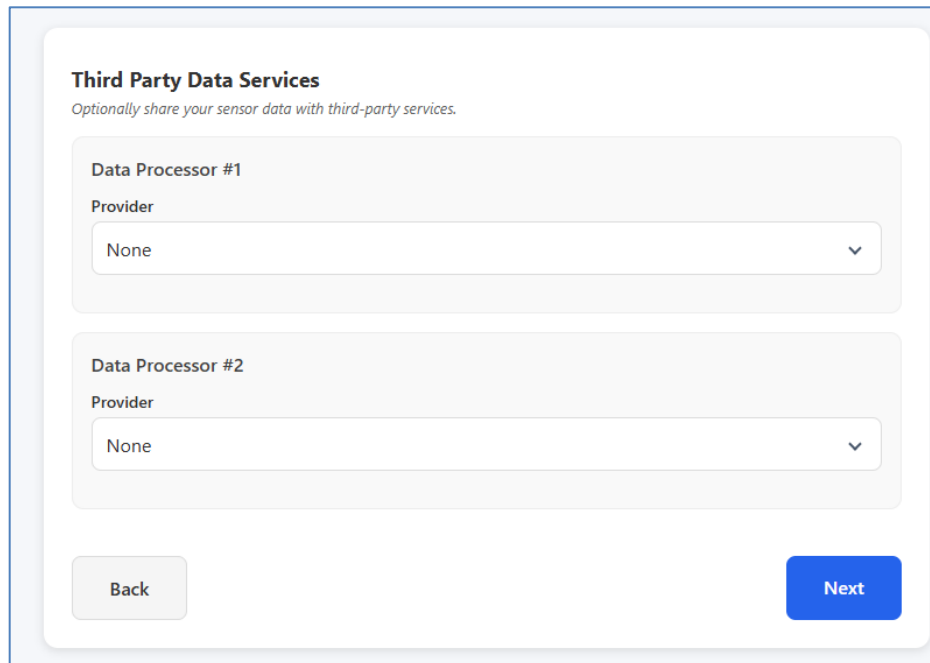


Click the map to set the sensor location

[Back](#) [Next](#)

Installation (Set-Up) Process

- **Step 8: Register your sensor:**
 - Leave these sections as they are

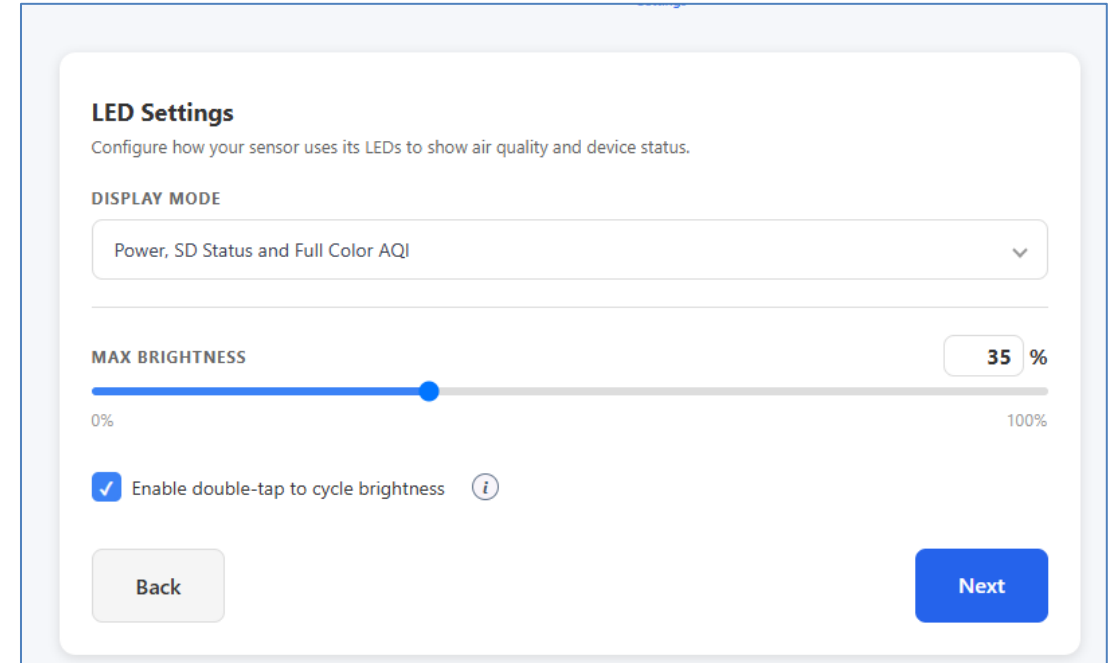


Third Party Data Services
Optionally share your sensor data with third-party services.

Data Processor #1
Provider: None

Data Processor #2
Provider: None

Back Next



LED Settings
Configure how your sensor uses its LEDs to show air quality and device status.

DISPLAY MODE
Power, SD Status and Full Color AQI

MAX BRIGHTNESS
0% 35% 100%

☒ Enable double-tap to cycle brightness ⓘ

Back Next

Installation (Set-Up) Process



- **Step 9: Register your sensor:**
 - Agree to the terms and conditions
 - Select “Register Device”

Review & Submit

DEVICE

Device-Id	4c:eb:d6:e8:1b:aa
Associated Email	act@capcog.org

LOCATION

Location Type	outside
Sensor Name	1baa
Visibility	public
Coordinates	30.202500, -97.705575

LED

Mode	Power, SD Status and Full Color AQI
Brightness	35
Tap Brightness Control	Enabled

DATA PROVIDERS

Provider 1	None
Provider 2	None

OWNER

Name	CAPCOG
Email	aircentraltexas@gmail.com
Phone	--

By registering this device you agree to the PurpleAir terms and conditions. Your sensor data may be displayed on the PurpleAir map if visibility is set to public.

[View Terms and Conditions](#)

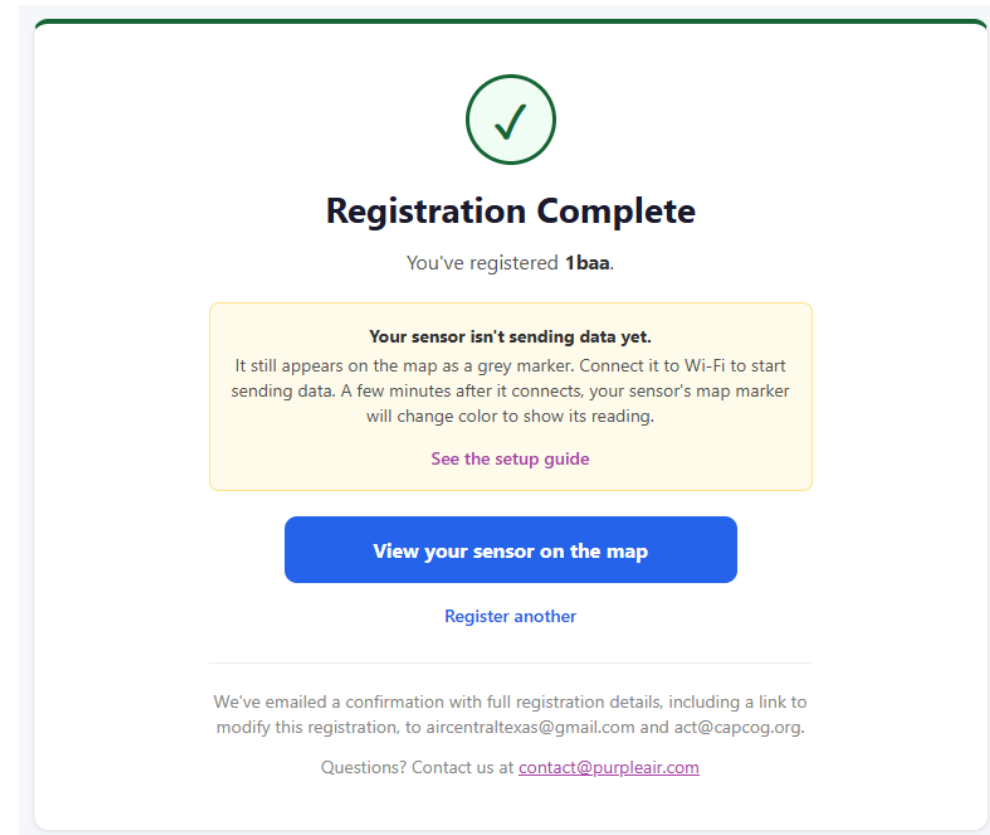
☐ I agree to the terms and conditions *

BackRegister Device

Installation (Set-Up) Process



- You will receive the screen if successful:



Installation (Set-Up) Process



- **Step 5: Fill out the PurpleAir Field Sheet:**
 - Go to the [PurpleAir Field Sheet](#)
 - Select “Set-up”
 - Add your contact info and PurpleAir ID (ex. C8:C9:A3:F:60:B0)
 - Confirm you have all equipment needed:
 - PurpleAir sensor
 - Power cord
 - Optional screws for mounting
 - Installation instructions
 - Follow all other instructions, answer all questions

The image shows a screenshot of the "PurpleAir Field Sheet" form. At the top, the title "PurpleAir Field Sheet" is centered. Below the title is a paragraph of text: "Thank you for your participation in monitoring air quality at your location by hosting a PurpleAir air quality sensor. The data collected by this air sensor will help to provide a better understanding of air quality throughout the Central Texas region. Please provide the following information at the time of your PurpleAir sensor set-up or during routine PurpleAir sensor check-ups." Below this text is a question: "Are you filling out a sensor set-up form or check-up form? *". This question and its associated dropdown menu are highlighted with a red rectangular box. The dropdown menu currently shows "Set-up" with a close icon (X) and "-Select-" below it. Below the dropdown are several input fields: "Full Name *" (split into "First Name" and "Last Name"), "Email *", "Phone *", and "PurpleAir Serial No. (MAC Address) *". At the bottom of the form is another question: "Are you missing any of the following? *", followed by a list of items with checkboxes: "PurpleAir Sensor", "Power Cord", "Optional Screws for Mounting", "Instructions for Installing and Registering the Sensor", and "I have all the above items".

Installation (Set-Up) Process

- **Step 6: Install the sensor:**

- Ensure sensor maintains a Wi-Fi connection where it will be installed
- Ensure device is installed in its upright position
- Do not cover the base (underside) of sensor
- Avoid mounting directly near trees and shrubs when possible
- The sensor should be mounted at a convenient height (we lean toward 8ft if possible)
- Use zip ties or screws to mount sensor



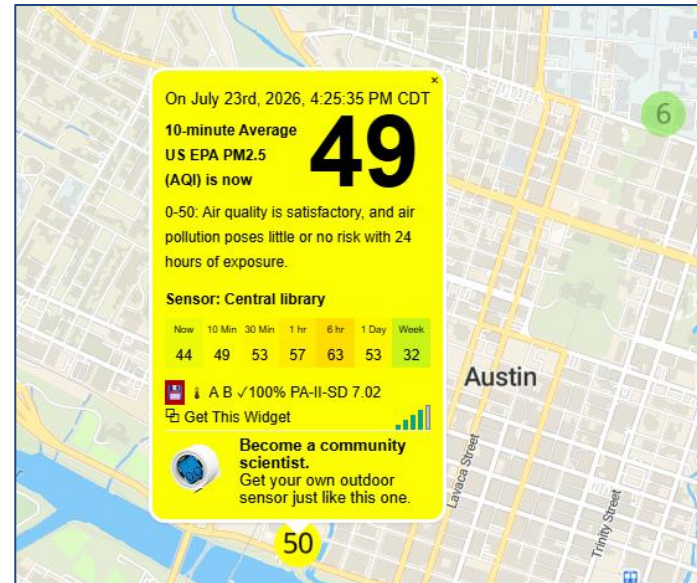
Bracket comes with screw/zip tie mount



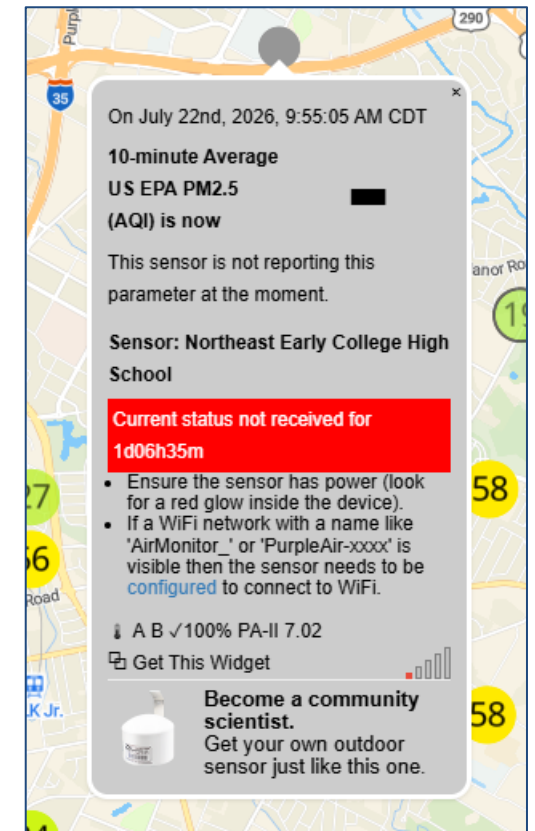
Installation (Set-Up) Process

- **Step 7: Check for sensor status on PurpleAir website:**
 - Ensure PurpleAir sensor is visible and shows as active on map
 - PurpleAir will appear gray if there is a connection issue
 - PurpleAir will not appear at all if site is not registered and set-up correctly

Active site



Inactive site





Maintenance (Check-Up) Process

Maintenance (Check-Up) Process

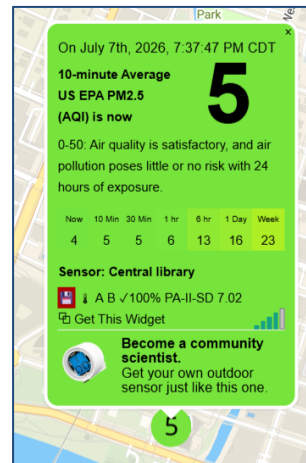
- **Step 1: Fill out the PurpleAir Field Sheet:**

- Go to the [PurpleAir Field Sheet](#)
- Select “Check-up”
- Add your contact info and PurpleAir ID (ex. C8:C9:A3:F:60:B0)
- Find the PurpleAir sensor on the [PurpleAir Map](#) AND the [AirNow Fire and Smoke Map](#)
 - Check to confirm the sensor is active on both maps

AirNow Fire and Smoke Map: Central Library



PurpleAir Map: Central Library



Are you filling out a sensor set-up form or check-up form? *

Check-up X

Select

Full Name *

First Name Last Name

Email *

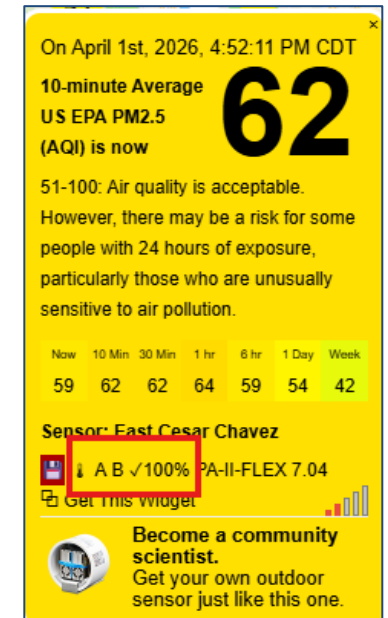
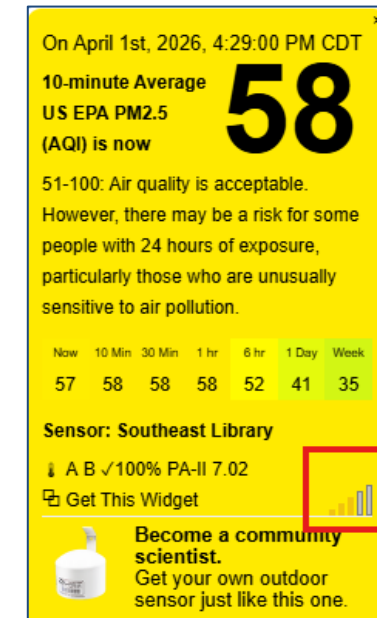
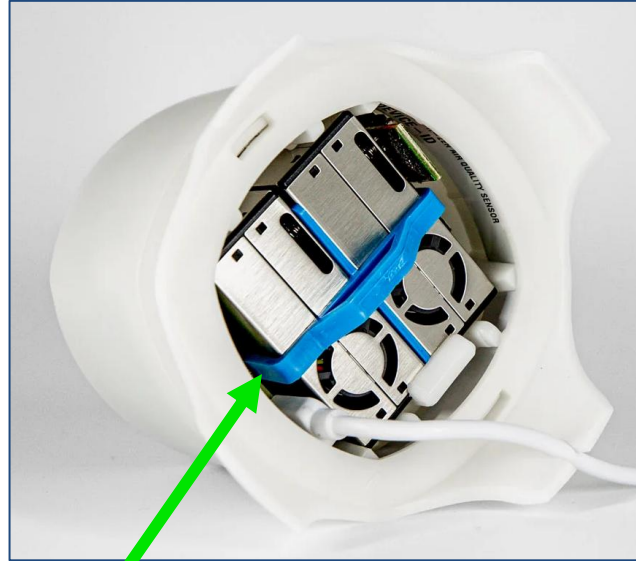
Phone *

PurpleAir Serial No. (MAC Address) *

Maintenance (Check-Up) Process

- **Step 2: Field Sheet - conduct site check:**

- Check for noticeable damage on sensor/mount
- Identify (if any) new sources of air pollution in the area, like
 - Generator
 - Construction
 - Vehicle parking nearby
 - Fire activity
 - Cooking
- Check underneath sensor for debris
- Confirm Wi-Fi bars and “confidence percentage” for sensor



Troubleshooting & Questions

Troubleshooting



- The three most common problems with setting up and maintaining PurpleAir sensors include:
 1. Difficulty identifying and connecting PurpleAir sensor to Wi-Fi:
 - Follow the steps provided by [this guide](#) to troubleshoot Wi-Fi connectivity. Report this issue in the Field Sheet.
 2. Power cord is unplugged from outdoor power outlet:
 - Plug in the power cord and confirm LED light is active. Use [this guide](#) to troubleshoot power issues. Report this issue in the Field Sheet.
 3. Debris/insects cause unusual or high readings:
 - Only attempt to clean sensor in this instance; use lowest setting on vacuum or short blast of compressed air.

Acknowledgement of Training



- Please use the QR code to access the training Acknowledgement Form and complete it now.



Thank You – Questions?



Capital Area Council of Governments

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