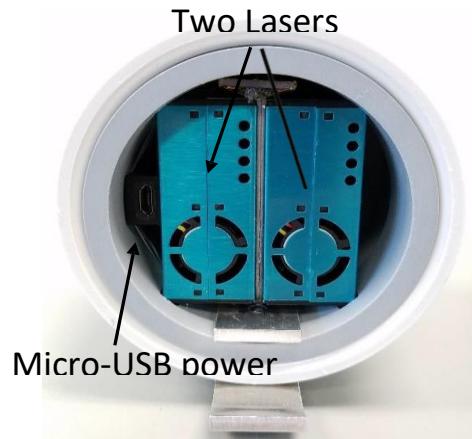


## Your PurpleAir Deployment Kit includes



- ① PurpleAir PA-II Dual Laser Sensor
- ② Outdoor-rated Power Supply
- ③ 17 Feet of Cable

Dual PM Sensors (in blue)  
Measures PM2.5, Temperature and Relative Humidity

## STEP 1 – Finding a Location

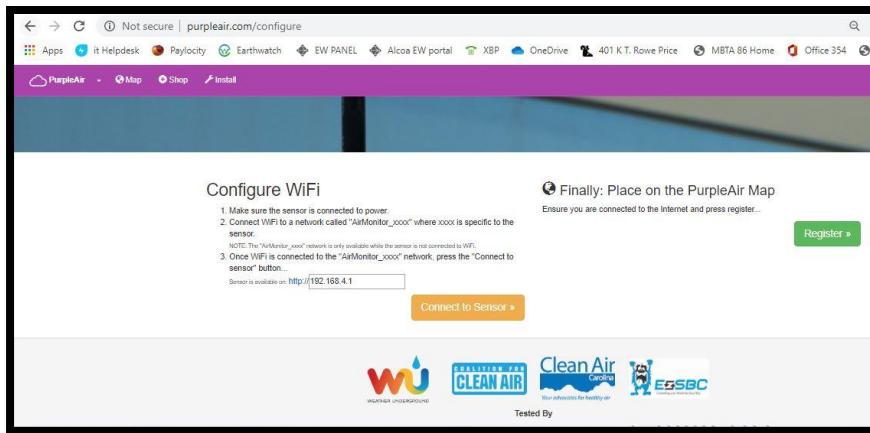
1. Look for a shady place, usually a north-facing part of the house, away from tall trees and from local sources of pollution (A/C units, vents, BBQs).  
Note: Location will need a nearby power outlet and Wi-Fi signal. Review the Siting Criteria for more information.

## STEP 2 – Installation

1. Before mounting your sensor, take a photo of the sensor label or write down the Device ID (you will need the Device-ID to register it later)
2. Mount sensor using either cable ties or a screw.
3. Take a photo of the installed sensor and area around the sensor (it may help with data analysis later on)

## STEP 3 – Configuring the WiFi

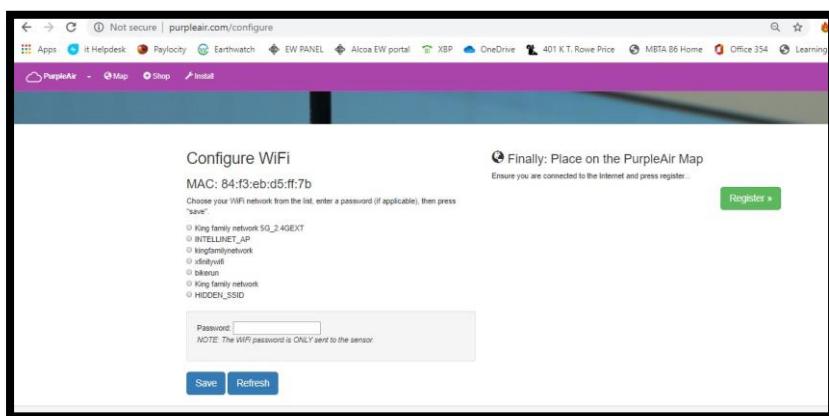
1. Connected the sensor to power. When powered, you will see a red LED on inside the sensor.
2. On a WiFi enable device go to [www.purpleair.com/configure](http://www.purpleair.com/configure) in Google Chrome and leave it open.



3. Connect your device to the sensor's network "PurpleAir-xxxx". Your device may display an error like "Internet may not be available." This is normal and you can proceed to the next step.



4. Once WiFi is connected to the "AirMonitor\_xxxx" network, go to the PurpleAir configuration page opened in step 1 and click on the "Connect to Sensor" orange button.
5. Select your WiFi network, enter your password and click save.



6. Once the monitor successfully connects to your WiFi, it will start uploading data and the "AirMonitor\_xxxx" network will no longer be available to connect to via WiFi.

## STEP 4 – Registering Your PurpleAir Sensor Device

Enter [www.purpleair.com/register](http://www.purpleair.com/register) on an internet-enabled device and input the following information. Note, marking your sensor “Public” (everyone) will only share the sensor location and data, but will not result in any of your personal information being shared.

The associated email is mchandler@earthwatch.org

Mark the location of your sensor (Outside Vs Inside)

This will be the name that will appear on the map.  
Name it: EW\_LOCATION  
(i.e. EW\_MassAve, EW\_Lynn)

Using the interactive map, click and drag the marker to your sensor's location (use the zoom functions to change the scale).

Device-Id (MAC)\*  
Printed on the device label just above the bar code. Please include the colons (:).  
XXXX:XXXX:XXXX

Associated Email\*  
This email address would have been used in the device purchase or other communication with PurpleAir. (A copy of this sensor registration will be e-mailed to this address.)  
Associated email address

Installed\*  
Outside

Location Name\*  
The name that appears on the map

Visibility\*  
Public (everyone)

Map Location\*  
(drag the marker to adjust)  
Latitude: 34.0017152  
Longitude: -117.82635520000001

Set a location on the map

Map data ©2018 Google Terms of Use Report a map error

Data Processors

In addition to PurpleAir, send data and the sensors "Map Location" to these 3rd party services:

Data Processor #1  
To help citizen science, share your device's location and sensor readings with Weather Underground, an IBM business.  
Weather Underground  
Create new Weather Underground sensor ID

Data Processor #2  
None

wu  
WEATHER UNDERGROUND

Device Owner's Information

This person can manage the device on the PurpleAir web site and may receive device notifications.

Owners' Name: Operation Healthy Air (required)	<b>Owner's Name*</b>  <input type="text" value="Probably Your First &amp; Last name"/>
Owner's Email: oha@earthwatch.org	<b>Owner's Email*</b>  <input type="text" value="An email address"/>
Phone number (not required)	<b>SMS Alert Phone Number</b>  <input type="text" value="Your phone number"/>

Check the Terms and Conditions Box and Click Register

#### PurpleAir Terms Of Use And Conditions

(Updated as of June 1, 2017)

THE FOLLOWING AGREEMENT BETWEEN YOU AND PURPLEAIR COVERS THE TERMS OF USE AND CONDITIONS FOR THE PURPLEAIR PRODUCT, SOFTWARE, APPLICATION, AND WEBSITE(S) (COLLECTIVELY KNOWN AS THE "SERVICES"). IN ORDER TO DEFINE THE RELATIONSHIP BETWEEN YOU AND PURPLEAIR AND ITS SERVICES, IT IS IMPORTANT FOR YOU TO READ AND UNDERSTAND THE FOLLOWING TERMS. BY CLICKING "AGREE" YOU ELECTRONICALLY CONSENT THAT THESE TERMS APPLY TO YOU WHEN ACCESSING OR USING THE SERVICES.

PurpleAir ("PurpleAir") provides the following Services, which permit you to utilize certain Internet services and making this content available on your compatible devices and computers, only as defined by the terms of this Agreement. Specifically, the Services directly refer to the PurpleAir website(s) including but not limited to [www.purpleair.org](http://www.purpleair.org) and any related family of websites including: [www.purpleair.com](http://www.purpleair.com), [map.purpleair.org](http://map.purpleair.org), and

I agree with the terms and conditions

**Register** 

The installation is now complete and your sensor is now visible on the PurpleAir Map!  
[www.purpleair.com/map](http://www.purpleair.com/map)

# HOW TO MOVE YOUR PURPLEAIR SENSOR TO A NEW LOCATION

Contact PurpleAir if you are moving a sensor to a new location or location type (inside / outside). PurpleAir will archive the old sensor, so the data stays at the original location. You will then be able to re-register it in the new location as a new sensor. Please let Earthwatch know of any changes in your sensor location.

1. Go to [www.purpleair.com/register](http://www.purpleair.com/register) and click in the link Let us know

Please complete the following form to place your sensor on the PurpleAir Map:

If you have filled out this form in the past, it is not necessary to fill it out again unless you wish to modify the sensor.  
To modify a previous registration, you will need to provide the same "Owner Email" as the first registration or the request will fail.

If you are moving a sensor to a new location or location type (inside / outside), please let us know. We will archive the old sensor so the data stays at the original location. You will then be able to re-register it in the new location as a new sensor.

2. A new window will appear. Please enter your name and email. In Topic, choose the option MOVE SENSOR. Include the Device-Id (MAC) of the sensor or sensors (i.e. 84:F3:EB:D9:82:77). In the message, let PurpleAir know that you would like to move the sensor or sensors. An alternate way is to contact PurpleAir at [contact@purpleair.com](mailto:contact@purpleair.com) and let them know the Device-Id (MAC) of the sensors you want to move.

Contact Us

Name: John Email: oha@earthwatch.org

Phone Number:

Choose a topic: Move Sensor

Include the sensor's device-id, if applicable: 84:F3:EB:D9:82:77 and 84:F3:EB:D9:82:78

Message:  
I would like to move the location for the sensors 84:F3:EB:D9:82:77 and 84:F3:EB:D9:82:78.  
Thanks for the help.

SEND

3. PurpleAir will contact you via email when your sensor is archived. The original locations will remain on the map as gray dots. It is not possible to remove a sensor from the map, but they will no longer be visible after 30 days of inactivity.
4. You can register your sensor with the new location at [www.purpleair.com/register](http://www.purpleair.com/register).

I agree with the [terms and conditions](#)

Register

Congratulations! The device registration was updated. All changes have been applied and are now live.

# HOW TO REMOVE AND RETURN YOUR PURPLEAIR SENSOR

The Operation Healthy Air program relies on the long term data information collected by the PurpleAir sensors deployed by citizen scientists like you. To have a deeper and better understanding of local air quality trends, we would appreciate it if you could keep the sensor plugged in for as long as possible. However, if for any reason you can't continue participating in this program or you need to remove the sensor, please contact our team at [oha@earthwatch.org](mailto:oha@earthwatch.org) to coordinate the return of the air monitor. Please also contact us if you have any questions or you need assistance with your air quality sensor.

## **1. How to remove the sensor.**

When removing the sensor be careful not to damage the double lasers and the SD card. If you mounted it using cable ties, you can cut them and dispose of them. Keep the sensor in a dry place to avoid water to get in contact with the lasers. Occasionally the PurpleAir monitors may need to be cleaned.

## **2. I want to change some information that I entered when I registered my sensor.**

To change the information the sensor was registered with, simply repeat the registration process with the current/updated information and the original information will be replaced. The sensor can be relocated and registered again provided the new location is within 1 mile of the focused area of the study. Registering the sensor with the updated information will replace the previously-registered information

## **3. Can I install the sensor inside my home/business?**

The sensors are manufactured to report on outdoor and indoor air quality. However, our preference is to have outdoor sensors to study the patterns of air pollution in your community.

## **4. What if I want to move my sensor from the original location?**

Before moving the sensor to a new location or changing it from an indoor to an outdoor sensor, contact us to request the data gathered to date be archived to the physical location and the sensor reset to gather fresh data in the new location.

## **5. What if my sensor loses power?**

Your sensor will remain configured with the Wi-Fi information and automatically reconnect once the power comes back on as long as the SSID name and password remain the same.

## **6. What if my sensor loses WiFi connection?**

The data previously collected and uploaded to PurpleAir will still be available. However, the sensor will not collect data while the WiFi connection is down, resulting in data loss.

## **7. Does it affect my WiFi speed at home?**

The sensors need to be connected to your WiFi upon installation, but it should not slow down the speed of your WiFi.

## **8. I can't find my sensor on the PurpleAir Map.**

It is possible that your sensor may have become inactive for an extended amount of time. On the PurpleAir Map, find the panel on the top left side of the page. Go to "Last Active" and select "All Time". Your sensor should now appear on the map as a gray oval icon, , indicating it is currently Offline and not reporting data. Your sensor's WiFi may need to be reconfigured and/or power may need to be supplied to your sensor. If you still cannot see your sensor on the map, it is possible that your sensor has not been registered or it was registered incorrectly. Register your sensor again by simply repeating the PurpleAir registration process with the corrected information.