

## SOP - CONNECTING YOUR PURPLEAIR SENSOR TO WIFI

**Credit:** The Institute for Tribal Environmental Professionals' (ITEP) American Indian Air Quality Training Program (AIAQTP)

**Configuring WiFi and registering the sensor on the PurpleAir map is the same for all PurpleAir sensors.**

1. On a WiFi enabled device open the list of available WiFi networks.
2. Connect to the sensor's network "PurpleAir-xxxx". The xxxx is a 2-4 digit code specific to your sensor.

***Important:*** *If your sensor network name is "AirMonitor\_XXXX" you will need to go to [www.purpleair.com/configure](http://www.purpleair.com/configure) to configure WiFi on your sensor.*

3. Depending on your operating system or device you may get a pop-up window or a message to sign into the network. If you get a message to sign into the network, press it to make the pop-up window appear.
4. The pop-up window will list available WiFi networks.
5. Choose the WiFi network you would like the sensor to use, enter the password, and click save. A hidden WiFi network can be entered by selecting the option at the bottom of the list.
6. The WiFi status bar will turn green once your PurpleAir sensor is connected to WiFi and transmitting data.

## TROUBLESHOOTING YOUR PURPLEAIR SENSOR TO WIFI

PurpleAir™ sensors will only work on 2.4GHz WiFi networks. PurpleAir™ sensors will not work on 5GHz networks.

PurpleAir™ sensors will not work on networks where you access the internet by logging on to a web page (this might include public WiFi networks that require authentication)

When connecting your PurpleAir™ sensor to a WiFi network, you may have to wait some time for it to connect to the network. If it doesn't connect, try disconnecting and reconnecting your WiFi, refreshing the webpage, unplugging the router, or contacting your WiFi network provider. You may have to do this multiple times before the sensor connects to a WiFi network.

Once the sensor is successfully connected to your home WiFi, make sure you switch the WiFi connected to your phone, tablet or computer back to your home WiFi. The the “AirMonitor\_XXXX” will no longer appear.

## SETUP ISSUES

### WIFI

The Purple Air Device uses WiFi to connect to the internet and report air pollution data. Setting up the WiFi in installation can be a tricky step, so be sure to give it a few extra tries. Here are some common issues:

#### I DON'T SEE MY “AIRMONITOR\_XXXX”

The monitor might not have power. Try plugging it in, and making sure you see a red light inside the device, or hear a small whirr from the fans.

The monitor will connect to an open wifi network first, like those at coffee shops, or from public internet networks. If it's connected, the monitor will disappear. In order to teach the monitor the right network and password you may need to move it out of range of the open network (plug it in somewhere else) and set it up. Then bring it back to the location and it will connect to the network you taught it in setup.

The monitor's network may turn on and off repeatedly during setup. Keep trying to connect. Sometimes smartphones are more successful.

#### MY DEVICE WON'T CONNECT TO “AIRMONITOR\_XXXX”

Sometimes smartphones and laptops will not connect to a WiFi network that doesn't reach the internet. This is a security feature. You will need to respond to a pop up alert to tell the device to “trust” the network, or “connect anyway.”

#### I'M CONNECTED TO THE MONITOR, BUT I DON'T SEE MY NETWORK IN THE LIST

The monitor can only work with 2.4Ghz networks. If you are trying to connect to a 5Ghz network, it won't be able to see it.

The monitor might not be in range. If the monitor is placed too far from the Wireless Router for the network, it won't be able to “hear” the network. Try moving the monitor a bit closer to the router. If your phone has a good WiFi signal, that's usually a good sign.

#### MY MONITOR IS CONNECTED TO THE NETWORK AND IT STILL ISN'T SHOWING UP ON THE MAP

The monitor will show up when it's connected \*and registered. Complete the registration step and check again.

## POWER TO THE DEVICE

The monitor needs to be connected to a power source in order to collect data. Here are a few common pitfalls:

The monitor should be plugged in securely, and the USB cable securely connected to the device. Test the connections.

Be sure that the outlet has power. If not, check if there is a switch which controls it, or if the outlet has a ground fault circuit interrupter try pushing the “reset” button.

In the event the monitor loses power, once it returns the first thing the monitor will do is look for the WiFi network used in set up. This helps out a lot if there are outages, or the accidental flip of a switch.

## ONLINE REGISTRATION

### REGISTRATION FORM ISSUES

The monitor can be registered and installed in either order. However, it will not show up on the map until it is registered.