Operation Manual for Airveda Otomate

This manual walks through the steps required to set up your Airveda monitor with Wi-Fi so that it can send data to the server which can be viewed on your app.

- One monitor can be configured with **up-to 5 Wi-Fi credentials** and will automatically switch between these Wi-Fis as and when it is able to connect with them.
- You can **configure as many phones** with a particulate Airveda Monitor, allowing everyone in your family to view data from your monitor in their apps.

<u>Wi-Fi Configuration Steps</u>

Step1: Download the Airveda App.

Download app named **'Airveda'** from Apple App store or Google Play store.

Google Play: https://play.google.com/store/apps/details?id=in.airveda

IPhone App store: https://itunes.apple.com/us/app/airveda/id1101687462

### **Step 2:** Open the Airveda app and start the monitor setup flow.

On opening the app, you will see a welcome screen asking you to **'Please give location permission to know what you are breathing right now'.** Click on **TAP ME!**

Then a pop up will ask to **'Allow Airveda to access this device's location'**. Click on **ALLOW.** The app needs location permission to be able to access Wi-Fi list on your device which will be required during configuration flow.
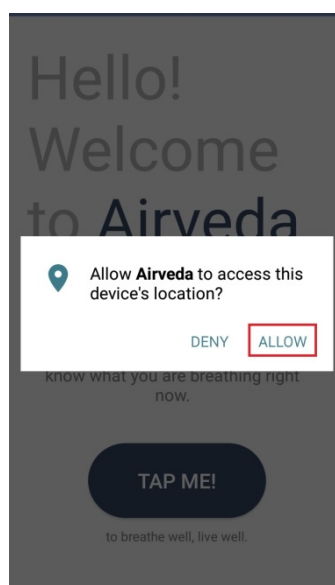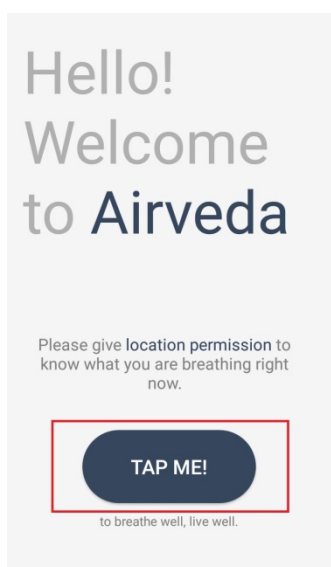
Then you will see a screen searching the Air Quality data near you, it will take few seconds.
After that you will see a screen with your city map having two options:
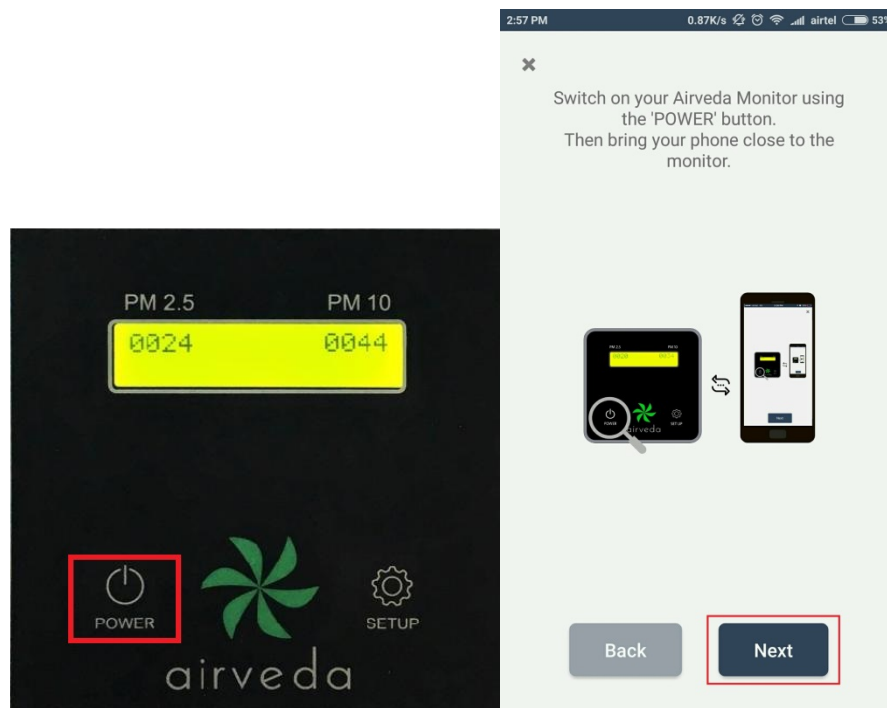
i)   I HAVE AIRVEDA MONITOR
ii)   NO, I DON'T
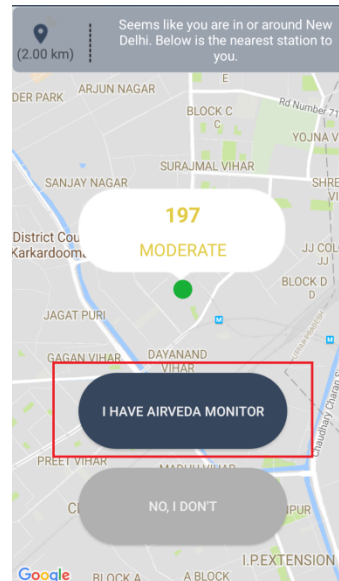
Click on **'I HAVE AIRVEDA MONITOR'**. In case you have already been using the app, you can also start the flow by clicking on **'Add Monitor'** available on the top right corner of the Home tab of your app.
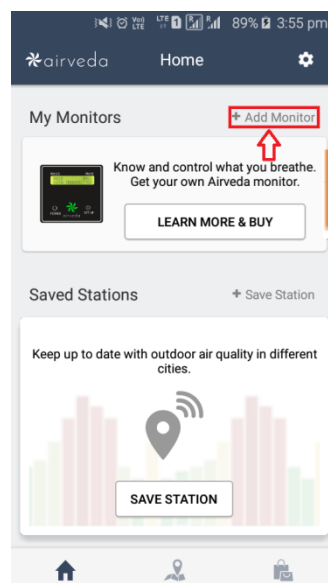
Step 3. Turn on the Airveda air quality monitor

Power on your Airveda Monitor, by pressing the **'Power'** button. Please bring your Airveda Monitor close to your phone. Then press **'Next'** in your app.
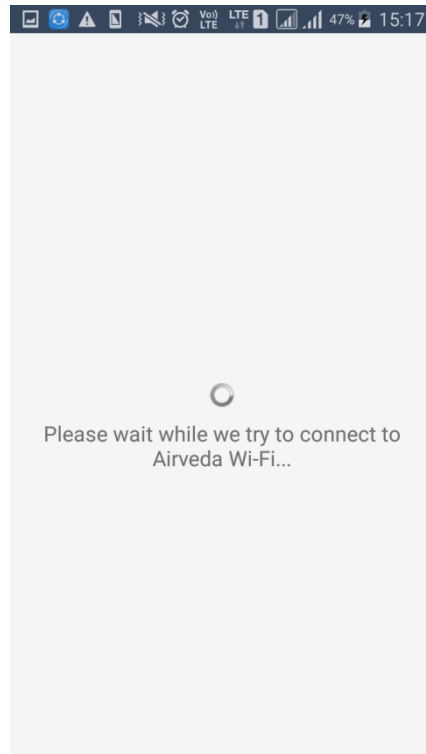

Step 4: Setup mode

Press **'Setup'** button on your Airveda Monitor. Your monitor display will now say **'SETUP MODE WAITING FOR APP'**. Then press **'Next'** in your app.

Once you click Next, then the app will try to connect to Airveda Wi-Fi automatically.

Step 5: Connect to Wi-Fi AirVeda

In case the app is not able to automatically connect to 'AirVeda' Wi-Fi it will ask you to manually connect to 'AirVeda' Wi-Fi by going into your Wi-Fi settings.

- Go to '**Settings'** on your phone. Click on **'Wi-Fi Settings'** and connect to Wi-Fi named **'AirVeda'**. Make sure that your phone is connected properly to '**AirVeda'** Wi-Fi before proceeding.
- Then go to you app and press **'Next'**.
- Once your phone is successfully able to connect to **'AirVeda'** Wi-Fi you will see **'SETUP MODE: CONNECTED TO APP'** on your monitor.

Note: If you are not seeing **'AirVeda'** Wi-Fi in your phone, or your app is not able to connect to your Airveda Monitor then please check out **troubleshooting Tip #1 and Tip #2 below.**
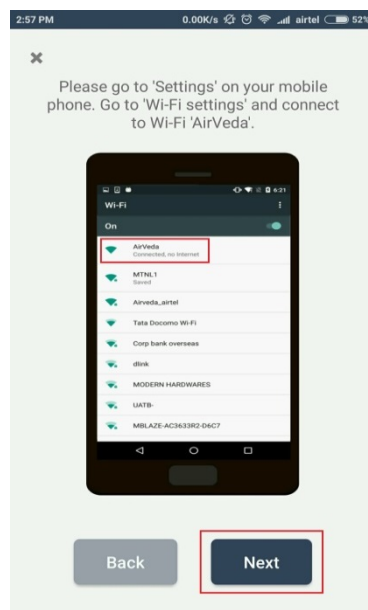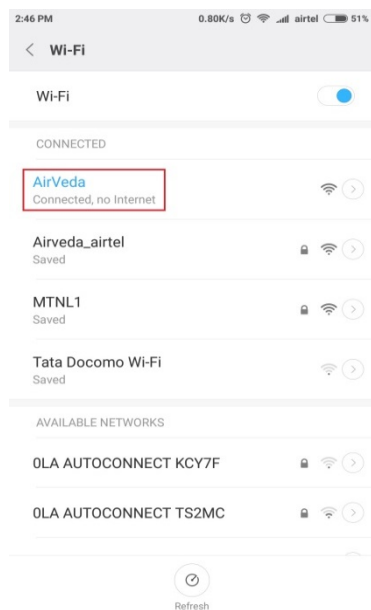
Step 6: Enter Monitor name

Your app will ask you to **enter a name** for your monitor. Give your monitor a name you will remember it by for example - **'home'** if you keep it at home or **'<your name>'** if you use it for your personal use. Then press **'Next'**.
You should see **'PAIRING DONE NAME:<name of the device you just entered>'** on your monitor.
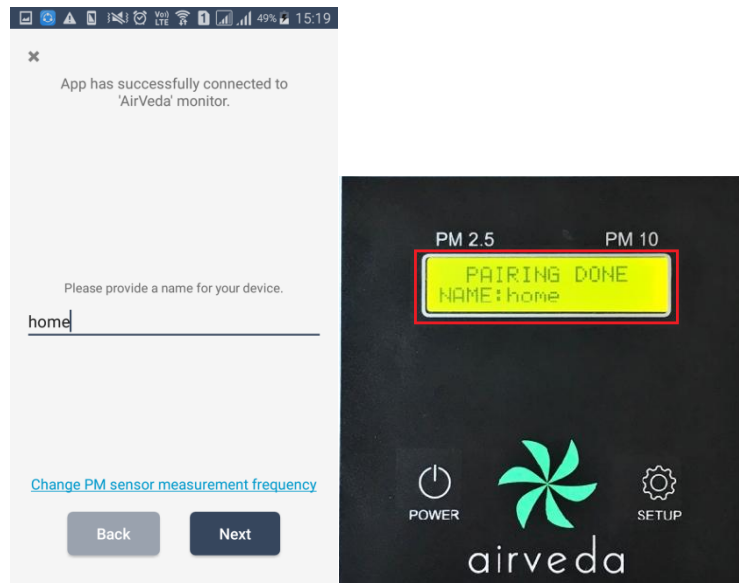
Optional: You can also change the PM sensor measurement frequency by clicking on **'Change PM sensor measurement frequency '** and then selecting the desired frequency.

The life of the laser in the sensor is 1 year of continuous running.

By default the monitor will measure and show real-time data when the device is running on battery. We want to make sure that if you are carrying the monitor around, it is able to update the value immediately as the air quality changes.

 However when connected to power the monitor assumes that the monitor is stationed in a single location and hence allows you to extend the life of the sensor by allowing you to configure how often it should measure the air quality. You can choose

- One second (One year life of sensor)
- One minute (Runs for 30 seconds then shuts off for 30 seconds – approx doubling life of sensor).
- Five minutes (Runs for 30 seconds then shuts off for 4.5 minutes)
- Ten minutes(Runs for 30 seconds then shuts off for 9.5 minutes)
- Twenty minutes (Runs for 30 seconds then shuts off for 19.5 minutes)

By default this interval is set at 1 minute to enable you to double the life of the sensor when on power.
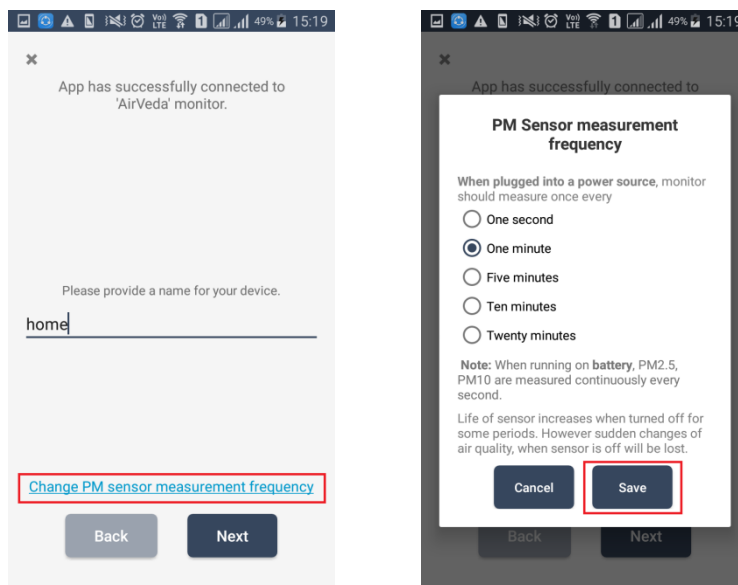
## Step 7: Enter Wi-Fi information

The app will now ask you to enter your Wi-Fi information. Please enter Wi-Fi information and then press Next.

Note: a) You need to provide both SSID and password for your Wi-Fi. Both SSID and password are **case sensitive** so make sure that you enter capital and small letters correctly.

b) The device can only connect to open Wi-Fis which are not behind a security firewall.

Closed Wi-Fi that require additional username and password to connect to a Wi-Fi are not supported with this device.

c) In case your Wi-Fi is not open you can choose to add the monitor to your list of secure devices using its MAC ID. You can obtain MAC ID post configuration – see Tip #5.
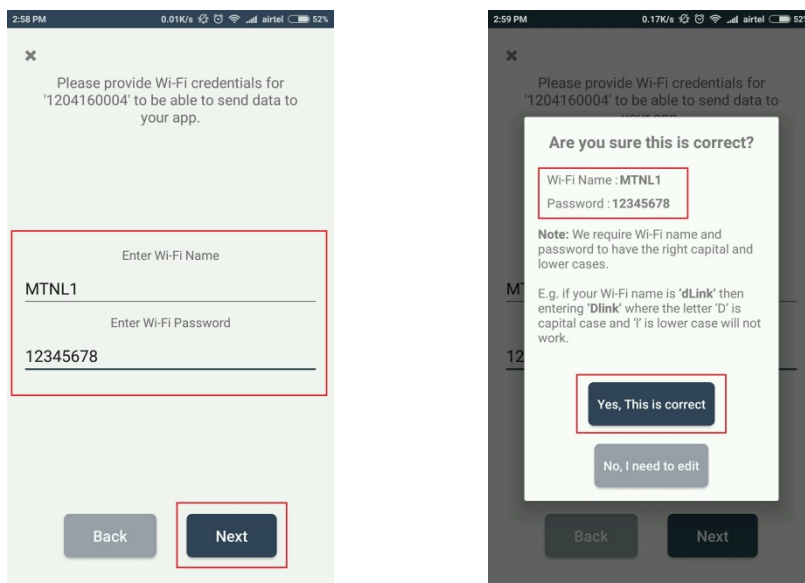
Step 8: Add up-to 5 Wi-Fi credentials

You will see a screen with **'Wi-Fi List:'** listing the Wi-Fi you have just added. You can go ahead and add another Wi-Fi credential by pressing **'Add Wi-Fi'**. If you do not wish to enter additional Wi-Fi credentials at this time, then simply press **'Save'**.

You will see **'WIFI SETTINGS RECEIVED'** on the monitor to inform you that the device now has the Wi-Fi settings and will automatically connect to the Wi-Fis you have configured once it detects them. **Note:** You can configure your device, to work with up to 5 Wi-Fi at a time. Once configured the device will automatically connect to any of the 5 Wi-Fi it finds. You may enter Wi-Fi information for your home, office, personal hotspot, and any other Wi-Fi you want your monitor to connect to seamlessly.
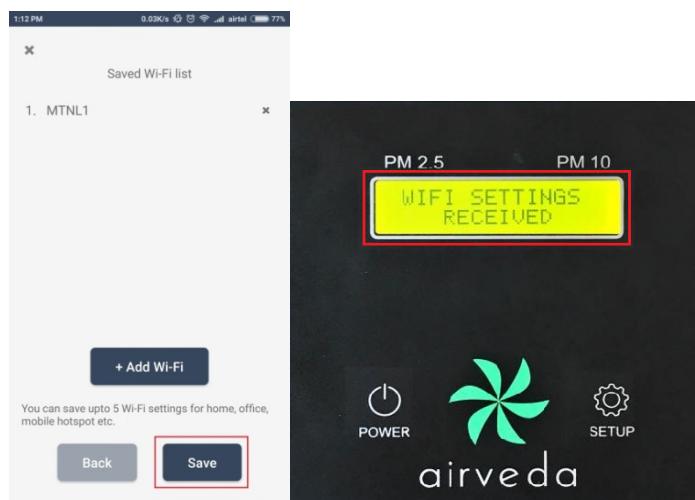

Step 9: Setting up Otomate Limits

After clicking **'Next'** on the 'Saved Wi-Fi list' screen you will navigate to the 'Set Otomate Limits' screen. These are the limits of PM2.5, PM10, or CO2 beyond which the purifier will turn on. For example in the screen below the purifier will turn on when PM2.5 exceeds 40 ug/m3 or PM10 exceeds 55 ug/m3 or CO2 exceeds 900 ppm. Here you can choose which parameters you want the limit to be used to control your purifier using the toggles under PM2.5, PM10, CO2. Then you can set the actual by moving the sliders up or down.
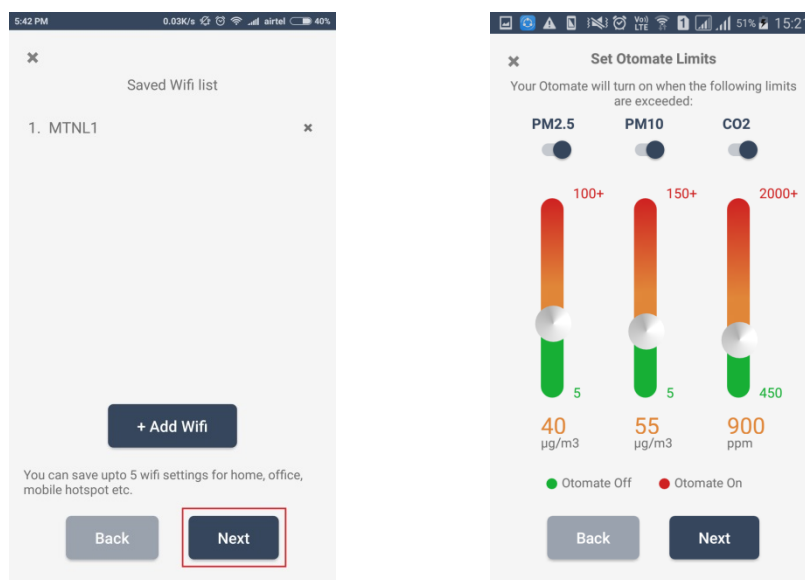
Step 10: Complete Setup flow

Now press **'Next'** and you will get a message saying that your Monitor has been successfully configured. Press **'Done'** and your device will automatically come out of the set up mode and start showing data again.
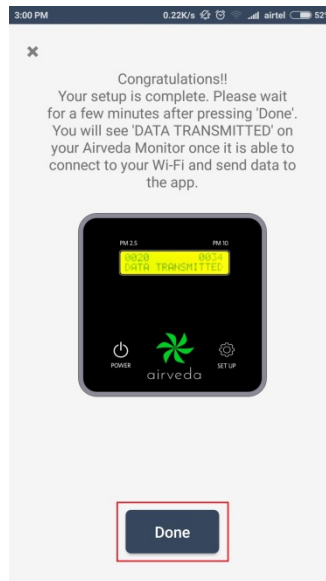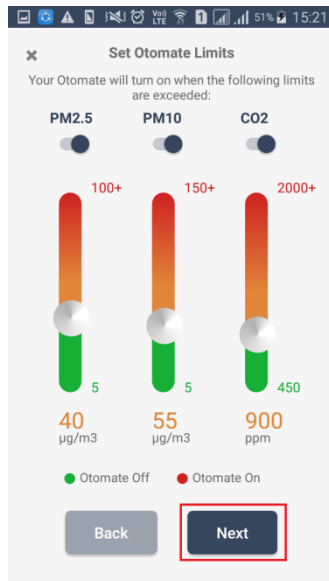

Step 11: Wait to let your monitor connect to Wi-Fi

The monitor will now start looking for the configured Wi-Fi and when it is able to connect you will see the message **"WIFI: <Name of Wi-Fi it is connected to>".** When it is able to successfully send data it will say '**DATA TRANSMITTED**'.

Once you see **'DATA TRANSMITTED'** in your monitor, you should start seeing the data in your app almost immediately.

Note: It may take a couple of minutes for the monitor to find the Wi-Fi and start transmitting data so please wait. If you see the message **'Wi-Fi NOT FOUND'** or after waiting for several minutes you are not seeing **'DATA TRANSMITTED'** then check out the **troubleshooting Tip #3** below.

![airveda logo]
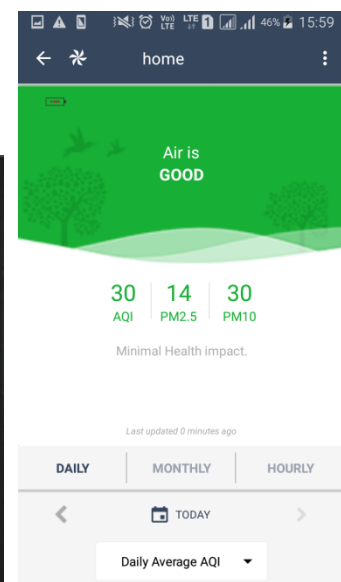
<u>Troubleshooting tips</u>

## Tip #1: Unable to connect to my Airveda Monitor

I don't see 'AirVeda' Wi-Fi in your Wi-Fi list:

1. Press **'POWER'** button to power your Airveda Monitor off and then on again.
2. Press **'SETUP'** button on your monitor and ensure you are seeing **'SETUP MODE. WAITING FOR APP'** on your monitor display.
3. Please ensure your monitor is kept close to your phone.
4. Check your Wi-Fi list in Wi-Fi settings on your phone again.
5. Try restarting your phone and repeat the steps.

    *If you still don't see **'AirVeda'** Wi-Fi then please contact info@airveda.com.*

I am able to connect to 'AirVeda' Wi-Fi but my app says '*We could not connect to your Airveda Monitor*'.
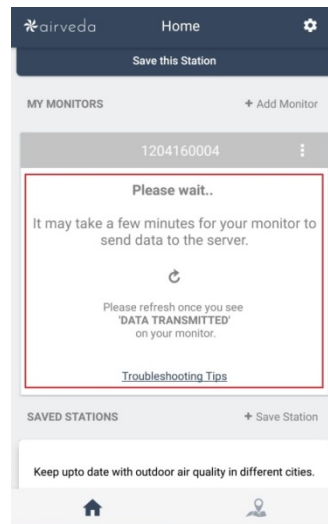
6. Follow the steps 1-3 above again.
7. Open Wi-Fi settings on your phone and connect to Wi-Fi named '**AirVeda**'.
8. Then Press **'NEXT'** on this screen.
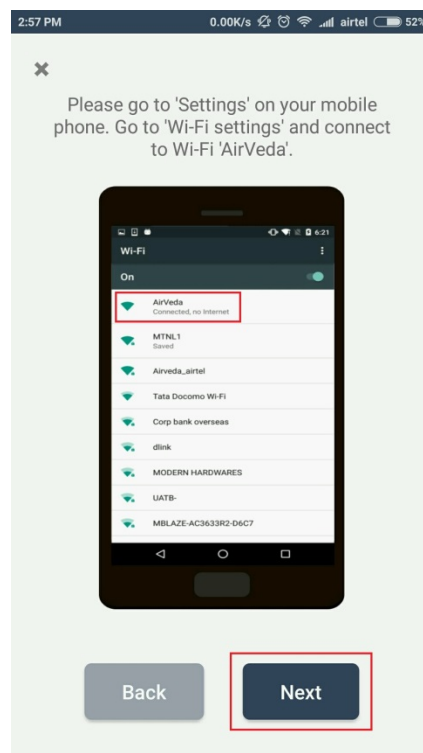
9. If this still doesn't work, then close the app, and restart it. Then follow the configuration steps again.

Tip #2: App is not showing data from my Airveda monitor.

I am seeing this screen on my home even after waiting for several minutes:

This means that the monitor does not have the right Wi-Fi name and password to connect to your Wi-Fi.

- **Make sure that Wi-Fi is actually working:** Enter your SSID and password on your phone. Navigate to browser on your phone, and ensure that internet is working.
- **Check the Wi-Fi credentials for capital and small letters:** Make sure both SSID and password have correct capital and small letters. So **'dLink'** is different from **'Dlink'** where the letter **'d'** is small case and **'L'** is capital case.
- **Configure again**: Go to the three dots on the screen and press **'Configure'**.
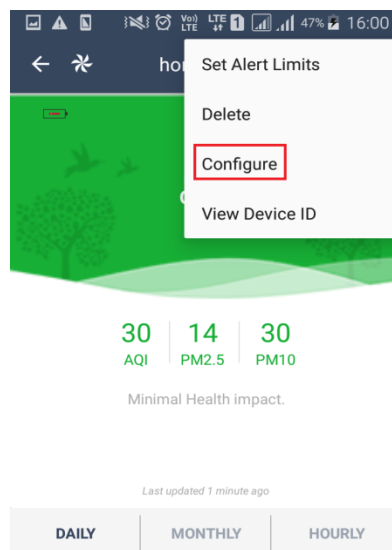
- **Enter Wi-Fi name and password**: Follow steps in the configuration flow. When you reach the Wi-Fi list screen, make sure you delete any old Wi-Fi credential you had entered and enter the correct ones again.
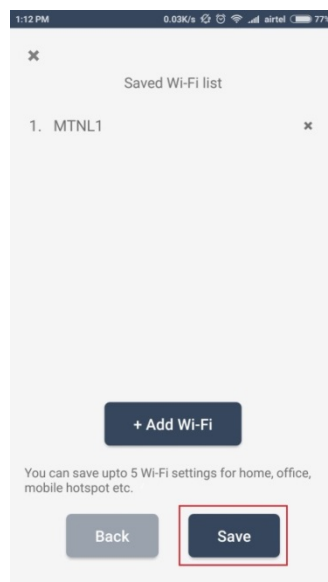
- Check if you start seeing **'DATA TRANSMITTED'** on your device.
  If you are still not able to see **'DATA TRANSMITTED'** *after several minutes then contact* info@airveda.com

Tip #3: What do the different Monitor display text mean?

Below are the Wi-Fi states you may see on the display of the monitor.

1. **SETUP MODE WAITING FOR APP:** Monitor is now a server and creates a Wi-Fi named **'AirVeda'**.
2. **SETUP MODE CONNECTED TO APP:** Your phone has successfully connected to the **'AirVeda'** Wi-Fi.
3. **PAIRING DONE NAME: <name of monitor>:** The App can communicate with your Airveda Monitor and has set specified name.
4. **WIFI SETTINGS RECEIVED:** The monitor has received the Wi-Fi settings you entered in your app.
5. **PLEASE SET WIFI :** No Wi-Fi credentials have been configured on the monitor. To set Wi-Fi credentials please follow steps detailed in Wi-Fi configuration manual<link>.
6. **WIFI NOT FOUND** : Monitor has Wi-Fi credentials, but is unable to find and connect to the specified Wi-Fi. If your Wi-Fi is available, then please follow Tip #3 to resolve issue.
7. **WIFI: <name of WIFI>** : Your monitor has successfully connected to <name of Wi-Fi>.
8. **DATA SAVED** : Data is being saved locally on the monitor. If you keep seeing this without any intermittent DATA TRANSMITTED, then your monitor is unable to connect to Wi-Fi.
9. **DATA TRANSMITTED:** The monitor is able to connect to the Airveda server and has successfully transmitted data. You should be able to see data from the monitor in your app.
10. **PLEASE RESTART:** The Wi-Fi module needs a reset, so please press the '**POWER'** button twice to turn the monitor off and then on again. If you are seeing **'PLEASE RESTART'** often or continuously then please contact info@airveda.com.
11. **PLEASE CONFIGURE:** This happens when there is some memory issue on the monitor. In this case please follow steps in this manual to configure your monitor with your Android app. In most cases the app will fix the issue. In case you keep seeing **'PLEASE CONFIGURE'** even after following all the steps in this manual, then please contact info@airveda.com.

Tip #4: I want to know the battery level on my monitor:

You will be able to view the remaining battery on your monitor in your app once your monitor is configured. Note the battery sign on the top left. If you see low battery like in the screenshot below where there is only 1 bar please connect to power. As a general tip please charge your Airveda Monitor for 3-4 hours after taking it out of the box to ensure sufficient battery in your monitor.
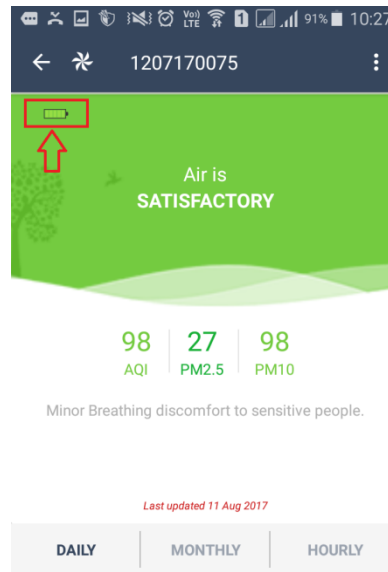

Tip #5: How can i view my Airveda monitor's MAC ID ?

You can view your monitor's MAC ID by clicking 3 dots on top right corner of your monitor's card in Airveda app as indicated by a blue arrow below.
Then click on **'View Device ID'** and both your DEVICE ID and MAC ID will be displayed in a pop up.

Note that you only see MACID if you have directly configured your monitor with your app. If you have added device by ID then you will not see the MAC ID.
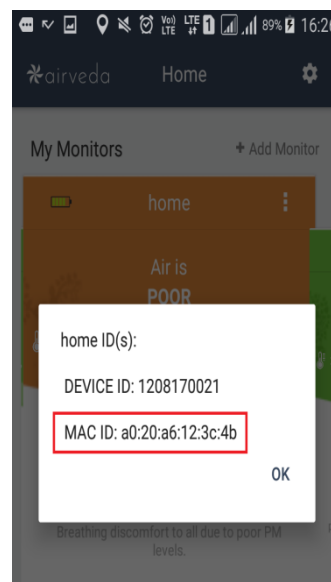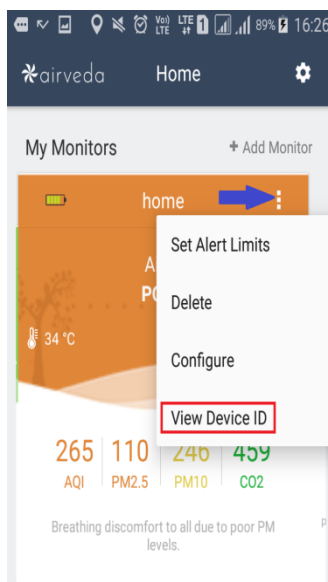
Tip #6: How do I check what limits are set on my Otomate ?

You can check the limits which have been set on your Otomate by clicking on your monitor card on the home tab as shown below.

On clicking the monitor card you will navigate to the internal card where you can find the OTOMATE card which has the limit details. To change these limits you can re-configure the monitor and set the limits in the configuration process.
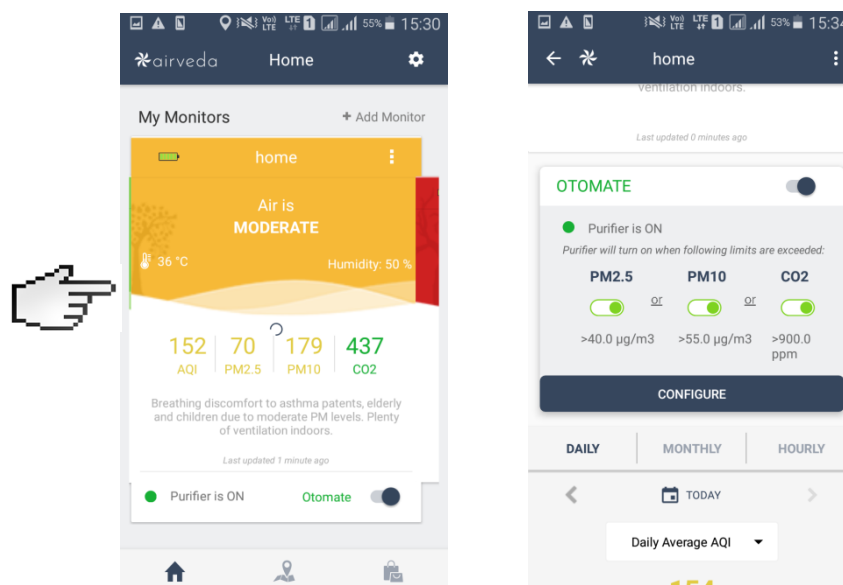
Tip #7: Are there other precautions I should take with my Airveda Monitor?

1. Please keep the unit away from strong heat, very heavy smoke and water.
2. The big hole of sensor should be left exposed to ensure that air from outside can enter the monitor for correct readings.
3. If the unit is showing incorrect readings or you see numbers on the display that don't make sense, it is advisable to re-configure the monitor using the app.
4. The monitor has been built with the ability to re-calibrate remotely, so we advise you to connect your monitor with Wi-Fi regularly to allow it to get the latest calibration based on its location.

If you have any other issues with using your Airveda monitor or the Airveda app, please contact us at info@airveda.com . We will be happy to help you resolve it.