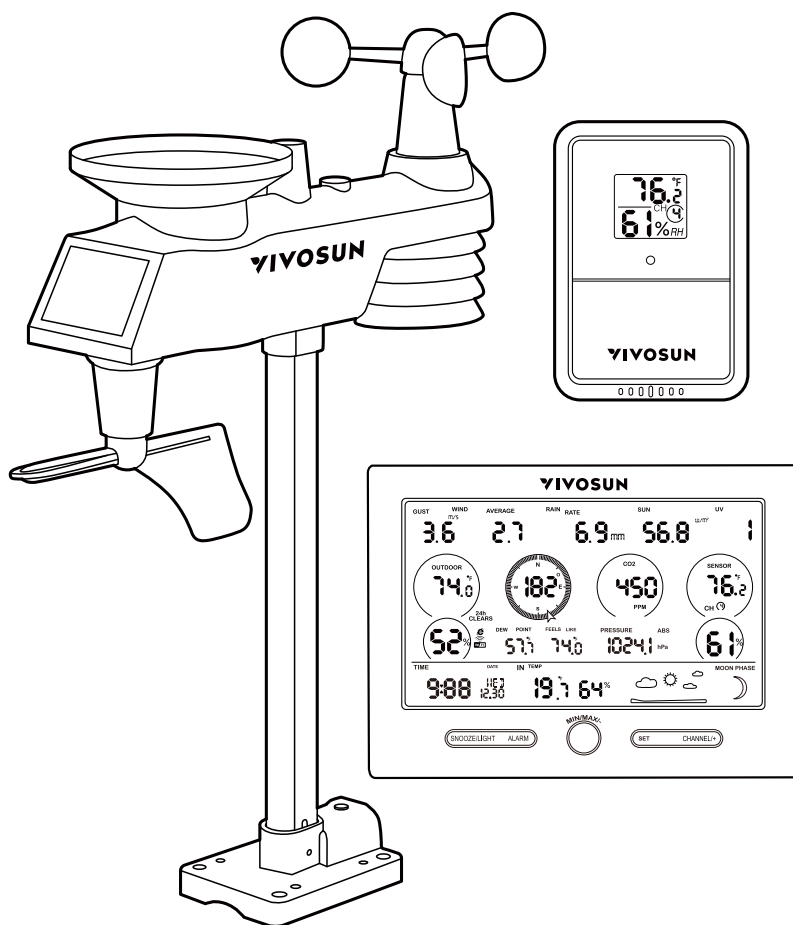


# VIVOSUN

## WIFI SETUP GUIDE

### INSTRUCTION MANUAL



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# 1. WEATHER SERVER REGISTRATION GUIDE

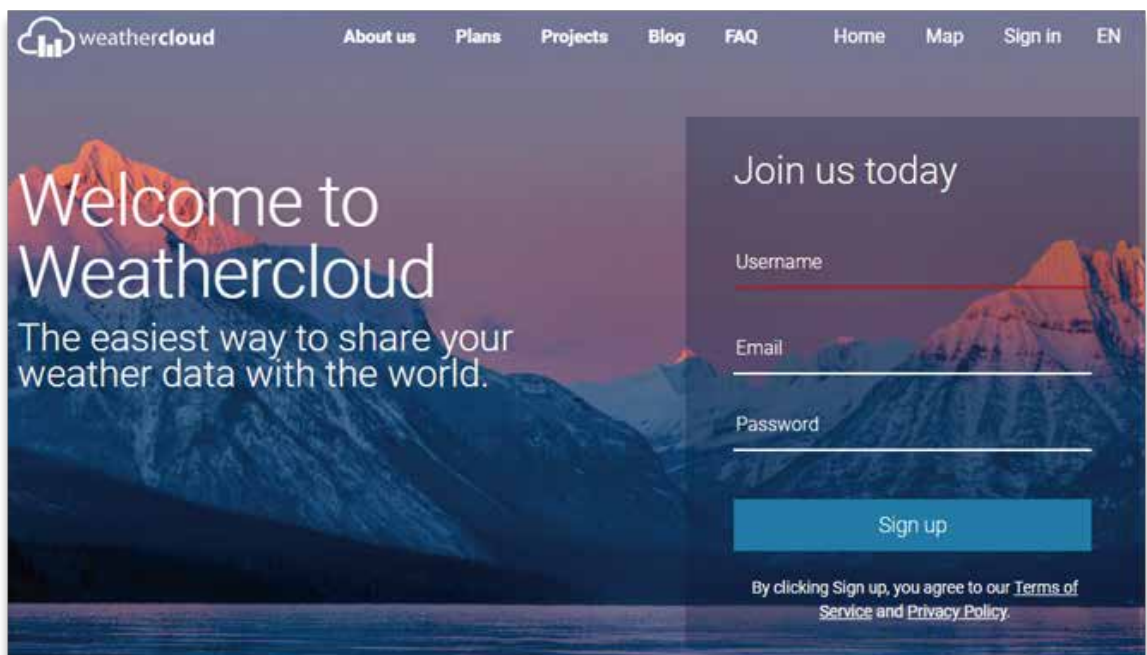
Note: If you have registered the Weathercloud and Wunderground account before, you only need to create a “[New Device](#)” to add your new weather station information.

Note: You can register on both Wunderground and Weathercloud to upload weather data.

## 1.1 SIGN UP ON WEATHERCLOUD.NET

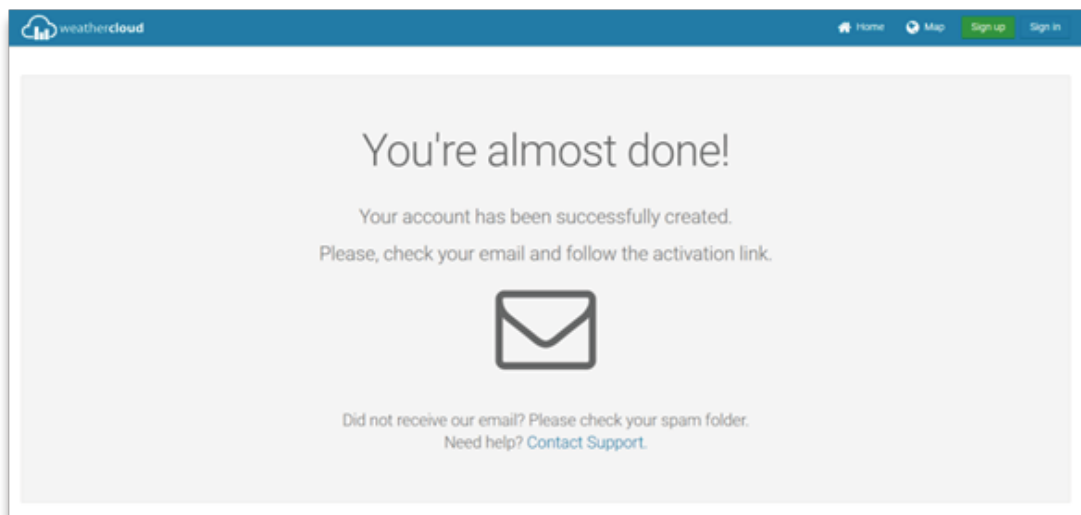
Note: You are advised to register on a desktop or lap-top for the best user experience.

1) Visit <https://www.weathercloud.net>, then input a Username, Email and Password as shown in Figure 1, and click the “[Sign up](#)” button to create your free account.

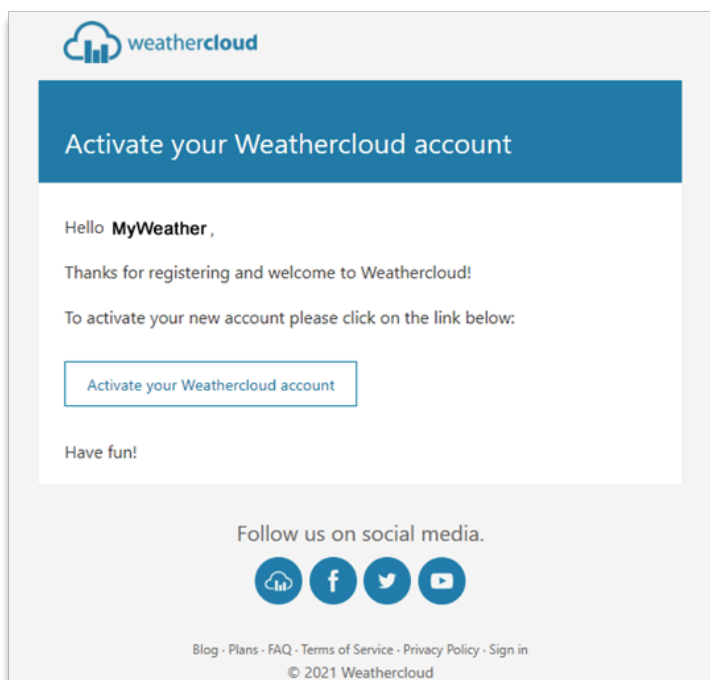
The image shows the Weathercloud website's registration page. The background is a scenic mountain landscape. On the left, the text reads "Welcome to Weathercloud" and "The easiest way to share your weather data with the world." On the right, there is a "Join us today" section with input fields for "Username", "Email", and "Password". Below these fields is a blue "Sign up" button. At the bottom of the registration form, it says "By clicking Sign up, you agree to our [Terms of Service](#) and [Privacy Policy](#)." The top navigation bar includes links for "About us", "Plans", "Projects", "Blog", "FAQ", "Home", "Map", "Sign in", and "EN".

Note: Create and input a new password on the “[Join us today](#)” page, not your personal Email password. (All your data will be kept private)

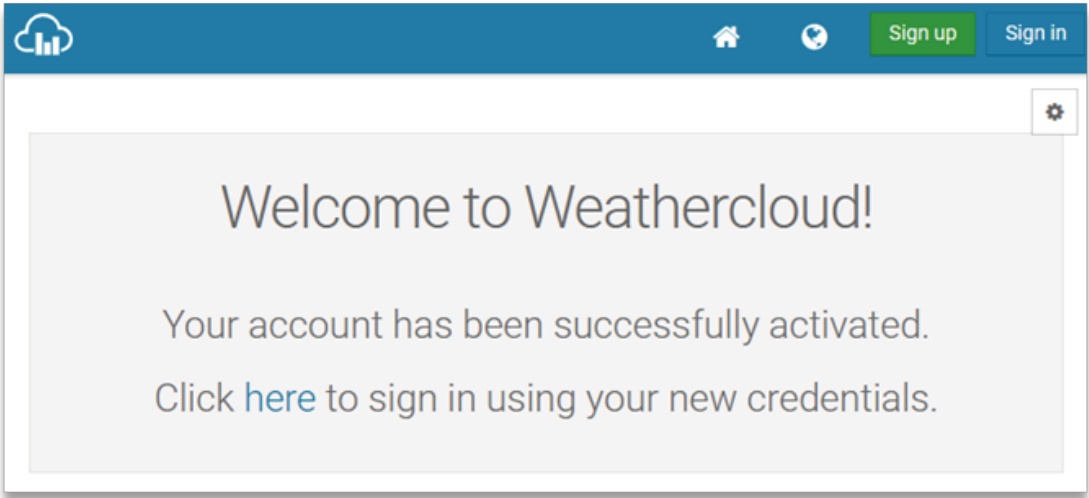
2) You will receive a [prompt page](#) from Weathercloud with [activation Email](#) in your registered mailbox.



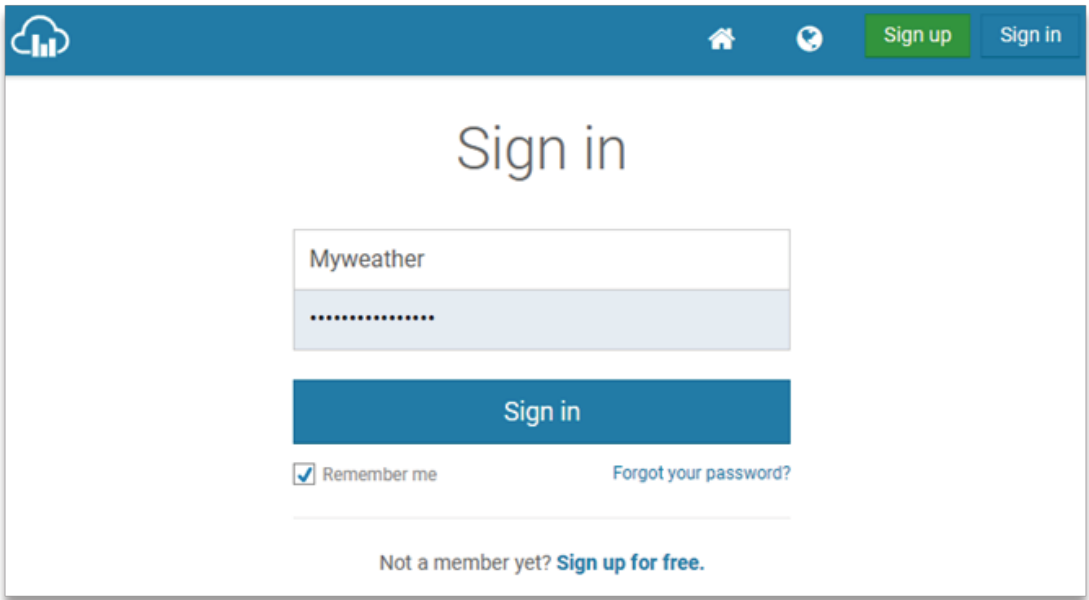
3) Check your registered email, and to confirm click the “[Activate your Weathercloud account](#)” button.



4) Click the “[Sign in](#)” button to enter the Weathercloud account login page.



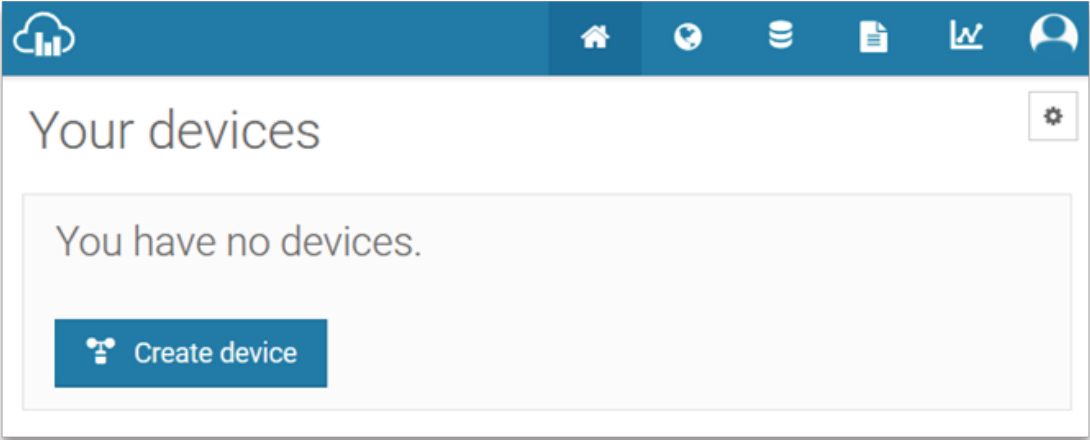
5) Input the previous “**Sign up**” Username (Email address) and password to log into your Weathercloud account.



**Note:** Choose “**Remember Me**” to save username and password to avoid the need for repeated inputs in the future.

6) Click the “**Create device**” button and input the information about your weather station and location. Blanks with Red \* must be filled in.

**Note:** You can select any weather station model and link type here. Neither parameter has any influence on functionality.



Note: You can select any model and link type here.

## Create new device

[Back](#)

Basic information

Location

Name \*

WS0001

Country \*

United States

Model \*

WS Series

State / Province \*

New York

Link type \*

Weather Setup

City \*

New York

Website

www.example.com

Time zone \*

(UTC-04:00) New York

7) Click “**Get Coordinates**” to identify your location on the map. The cross in the middle of the map should now mark the location of your weather station. Use the buttons “+” and “-” to zoom in or out on the map as displayed. You can move the cross on the map to your own accurate location and click the “**DONE**” button.

Website

www.example.com

Time zone \*

(UTC-04:00) New York

Description

Coordinates

Get coordinates

Latitude \*

Longitude \*

Elevation

0.0

m

Height


0.0

m

Get coordinates

+

-



© OpenStreetMap contributors

Done

8) Once the Longitude and Latitude parameters have been filled in, click the “Create” button at the bottom side.

Coordinates

Get coordinates

Latitude \*

40.71277625634872

Longitude \*

-74.00597425460125

Elevation

0.0

m

Height

0.0

m

✓ Create

9) The device is successfully added into the Weathercloud as in below image. Please click “link” in the settings button to record the “Weathercloud ID” and “Key” information for later use (Section 3.1).

weathercloud

HomeMapDatabaseReportsPlotsUser

Your devices

WS0001

Unread

Model

Other

WS Series

Location

New York

40° 44' 22" N 73° 58' 14" W 0.0 m

Gallery

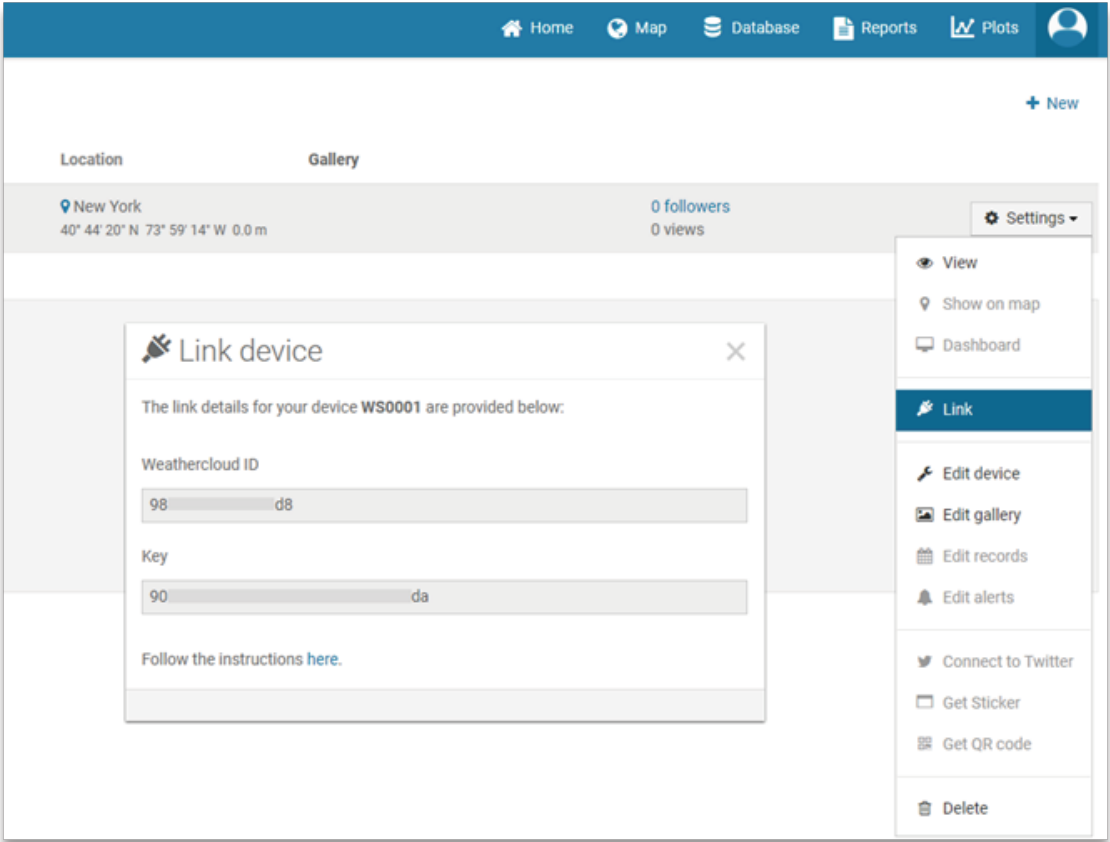
0 followers

0 views

Settings

New






Note: The “Weathercloud ID” and “Key” will also be sent to your registered email.


1.2 SIGN UP ON WUNDERGROUND.COM

1) Visit the “<https://www.wunderground.com>” website, and click the “Join” button to create a free account.





2) When you enter into the [sign up](#) page, input the email and password, then click the “Sign up for free” button to create your own account.


 Sensor Network Maps & Radar More ▾


[Log in](#) | [Join](#) 


Popular Cities

 San Francisco, CA  
60 °F Fair

 Manhattan, NY  
85 °F Fair

 Schiller Park, IL (60176)  
69 °F Mostly Cloudy

 Boston, MA  
78 °F Partly Cloudy

 Houston, TX  
87 °F Partly

## Member Account

### Join Weather Underground

- Choose adding your webcam or personal weather station.
- You can delete your account at any time from your member settings.

The Weather Company needs your email to create your Weather Underground account.

Email

✓

Password (5-30 characters)

Show


Confirm New Password:

☒ I agree to the [Terms of Use](#)

Sign up for free

[Already have an account? Sign in](#)

3) When the registration completed successfully, “Welcome” prompt page will show as below.



×

CLOSE

## Welcome!

You are now an official Weather Underground member.

### Personal Weather Stations

Join our global community connecting data from environmental sensors like weather stations and air quality monitors. Provide rich hyperlocal weather data today.

[Learn More About Weather Stations](#)

### Category 6™

Keep up with the latest weather news and happenings. Check out our Category 6™ news site with update articles written by our resident meteorologist, Bob Henson.

[Read the Latest Weather News](#)

### Weather Maps

Check out our extensive catalog of weather maps ranging from Radar to 12 Hour Surface Forecast.

[View Our Maps Catalog](#)

### Wundermap

Our Wundermap is also one of most data rich interactive weather maps on the market today.

[Check Out Wundermap](#)

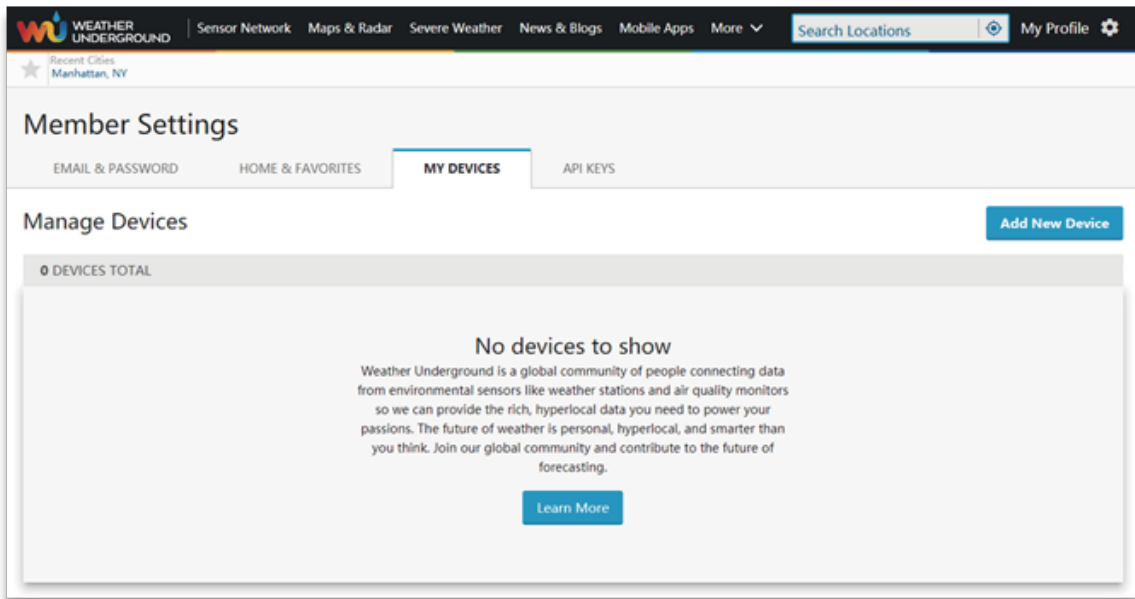
4) Click the “**Log in**” button to input your registered email and password, then click “**Sign in**” button to **Member Settings**.

The screenshot shows the 'Sign in to Weather Underground!' page. At the top, there is a navigation bar with links for Sensor Network, Maps & Radar, Severe Weather, News & Blogs, Mobile Apps, and More. A search bar for locations is also present. Below the navigation bar, a row of weather forecasts for various locations is displayed. The main heading is 'Sign in to Weather Underground!'. There are two input fields: 'Email' with the placeholder 'myweather@.com' and 'Password' with a masked password '\*\*\*\*\*'. Both fields have checkmarks to their right. A 'Forgot your password?' link is next to the password field. Below the input fields is a blue 'Sign in' button. Underneath the button is a link 'Don't have an account? Sign up'. At the bottom, there are links for 'Terms of Use' and 'Privacy Policy', followed by a disclaimer: 'Please read these terms carefully. By using Weather Underground or signing up for an account, you're agreeing to these terms.'

The screenshot shows the 'Member Settings' page. The navigation bar is similar to the previous page, but includes a 'My Profile' link. Below the navigation bar, a row of weather forecasts is shown. The main heading is 'Member Settings'. There are four tabs: 'EMAIL & PASSWORD', 'HOME & FAVORITES', 'MY DEVICES', and 'API KEYS'. The 'EMAIL & PASSWORD' tab is selected. It contains three sections: 'Change Your Email' with fields for 'Current Email' (myweather@.com) and 'New Email Address', a 'Save Email Settings' button; 'Change Your Password' with fields for 'Current Password', 'New Password', and 'Confirm New Password', a 'Show' link, and a 'Save Password Change' button; and 'Your Membership' showing 'Status: Free Membership', 'Signed Up: 7/17/21', and a 'Delete Account' button.

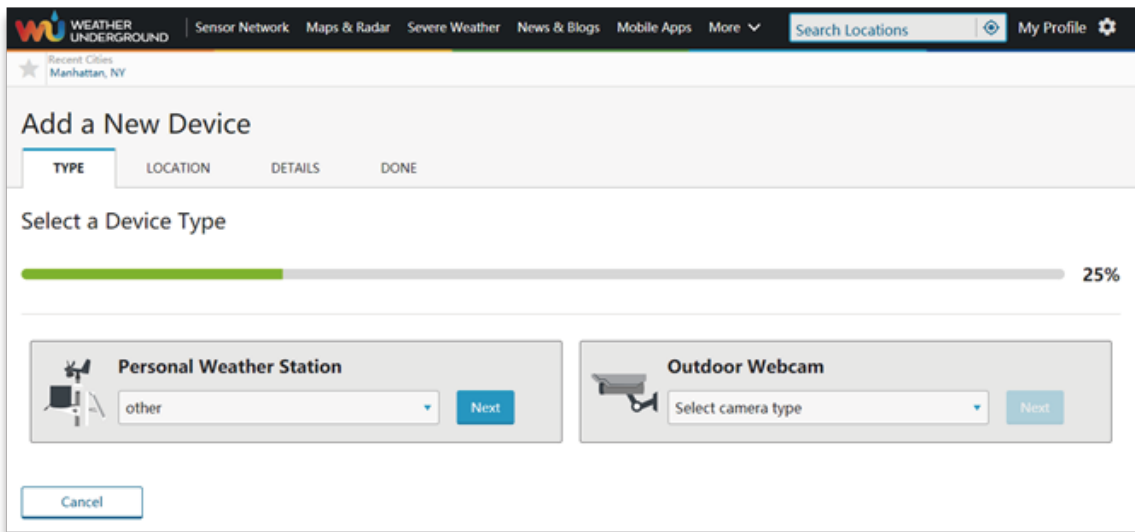
5) Select “**My Devices**” tab and click the “**Add New Devices**” button to the “**Select a Device Type**” page.

Note: In the “**Add New Devices**” page, set the “**TYPE**”, “**LOCATION**”, “**DETAILS**” and “**DONE**” page step by step until 100% completion.



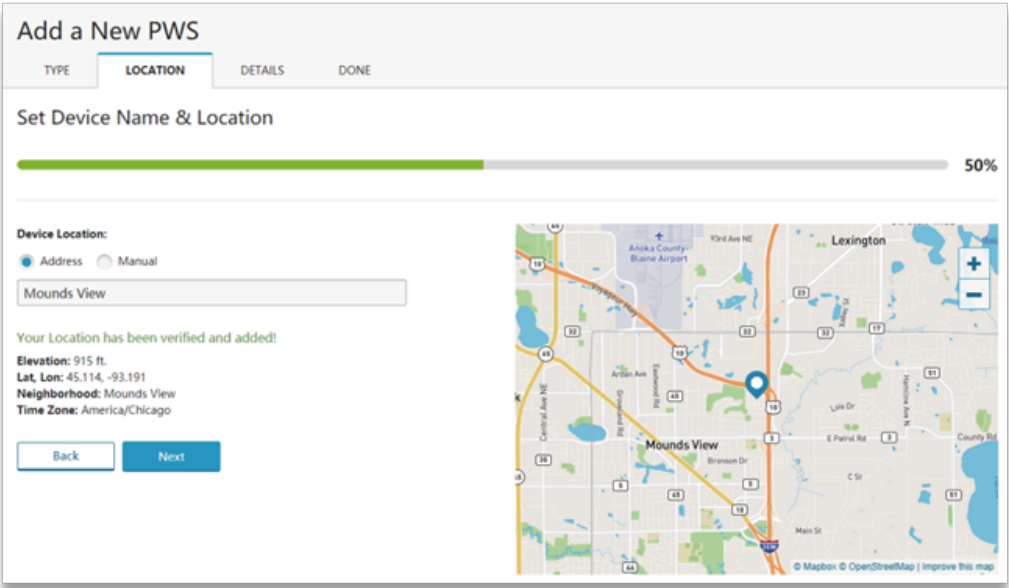
5.1. In the “Type” page, click “Personal Weather Station” drop-down list to select your personal weather station type, and click the “Next” button to the “Location” page.

Note: You can select any model or other in the below Personal Weather Station blank. This parameter has no influence on the functionality.

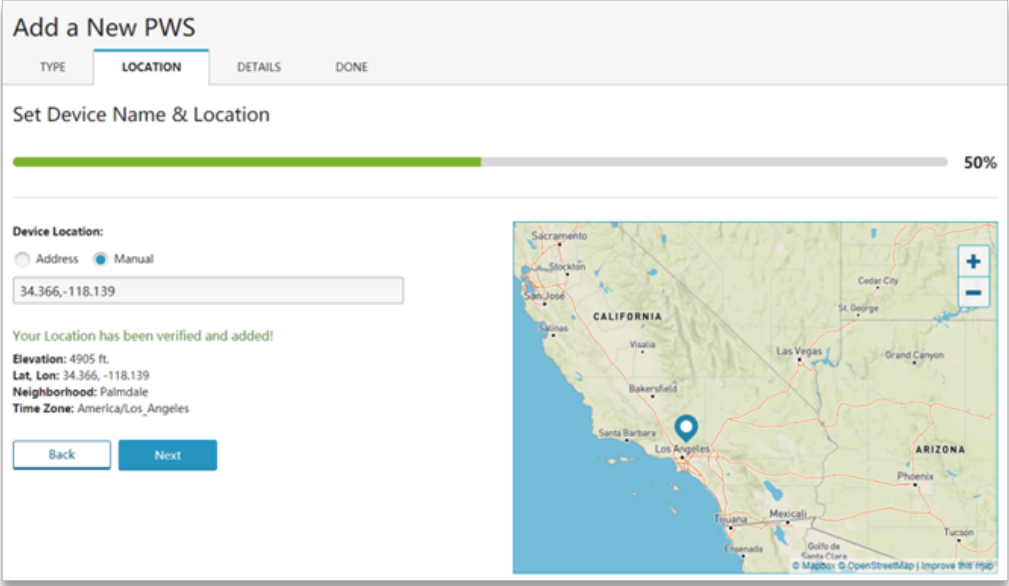


Note: You can select any model or other.

5.2. Device Location “Address” or “Manual” Option/Set Address Option: Simply enter the detailed address close to the location of your personal weather station. The Wunderground website database will automatically find the associated address and show it on the map.



Manual Option: Zoom in or zoom out of the map and click the most accurate address of your personal weather station. The details will show on the left automatically.

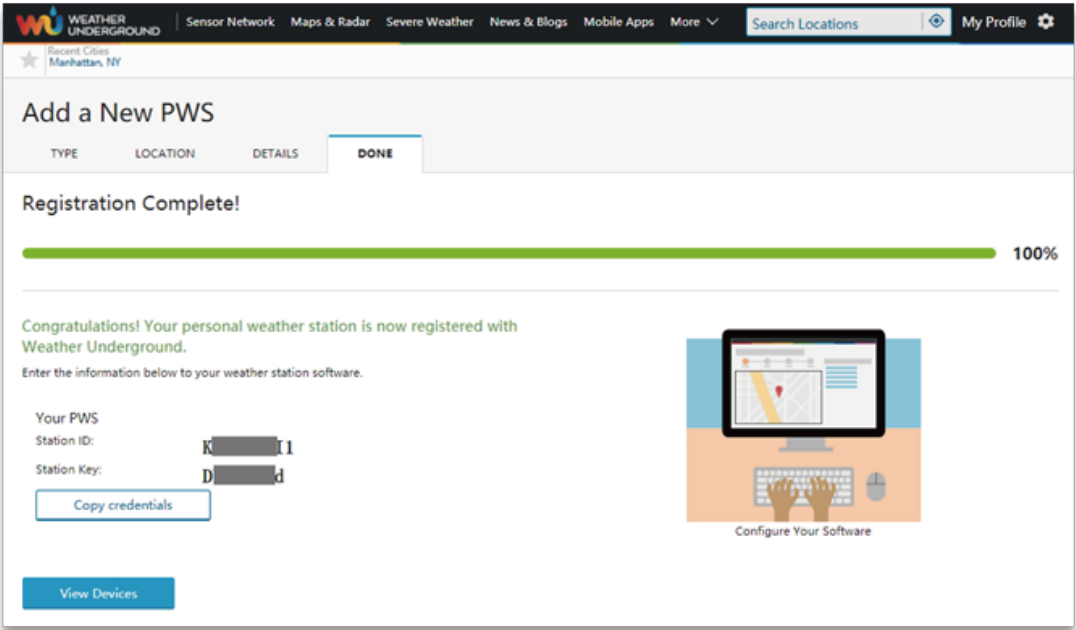


5.3. Once finishing the “LOCATION” page, click the next button to go to “DETAILS” page.

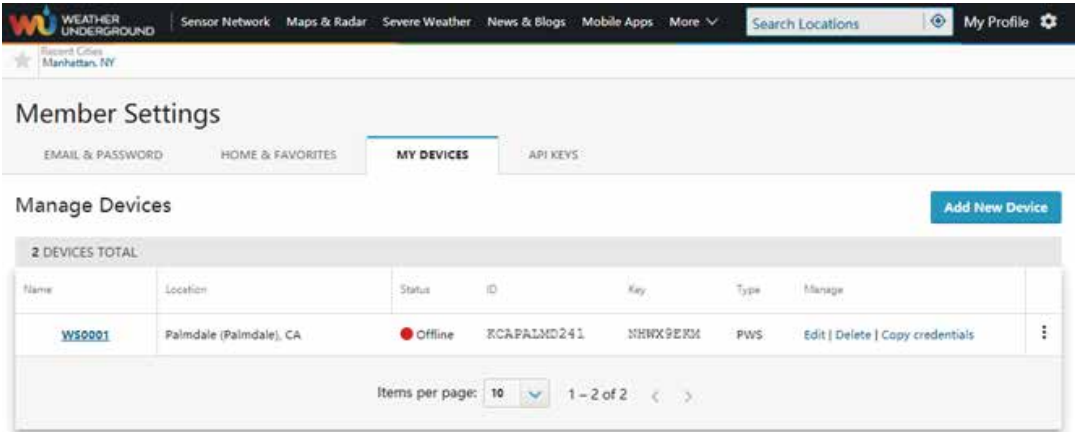
6) In the “DETAILS” page, the blanks with red “Required” are mandatory fields. There is no need to change the filled fields. Click the “I Accept” option and the “Next” button to go to the “DONE” page.

The screenshot shows the 'Add a New PWS' page in the Weather Underground app, specifically the 'DETAILS' tab. The progress bar indicates 75% completion. The 'Name' field is filled with 'WS0001'. The 'Elevation' field is filled with '4905'. The 'Device Hardware' dropdown is set to 'other'. The 'Surface Type' dropdown is empty. The 'Associate Webcam' dropdown is set to 'Select WebCams'. The 'Height Above Ground' field is empty. A privacy notice is displayed with the text 'You Make Our Forecasts More Accurate, We Respect Your Privacy' and a link to 'Learn more about how we take your privacy seriously'. Below the notice, the 'I Accept' radio button is selected. At the bottom, there are 'Back' and 'Next' buttons.

7) On the “DONE” page, the device “Station ID” and “Station Key” are shown. Copy and record this information for later use (Section 3.1).




Note: On the “DONE” page, click the “View Details” button to see your weather station and the associated station ID and key.



## 2. WIFI SETUP FOR DISPLAY CONSOLE

Note: Place the distance between the router and display console less than 16 ft. (5m) away from each other to ensure a stable WiFi signal.

## 2.1 CONNECT END-DEVICE TO DISPLAY CONSOLE WIFI

When you first power up (AC Adapter) the console, or press and hold the **MIN/MAX/-** button for three seconds in normal mode, the WiFi icon  will flash to signify that it has entered **WAP (wireless access point) mode**, and is ready for WiFi settings.

You can use your personal Laptop, PC, Tablet, or Smart Phone to connect the WiFi of the display console. The console network name begins with “**Weatherhome**” and a unique code.

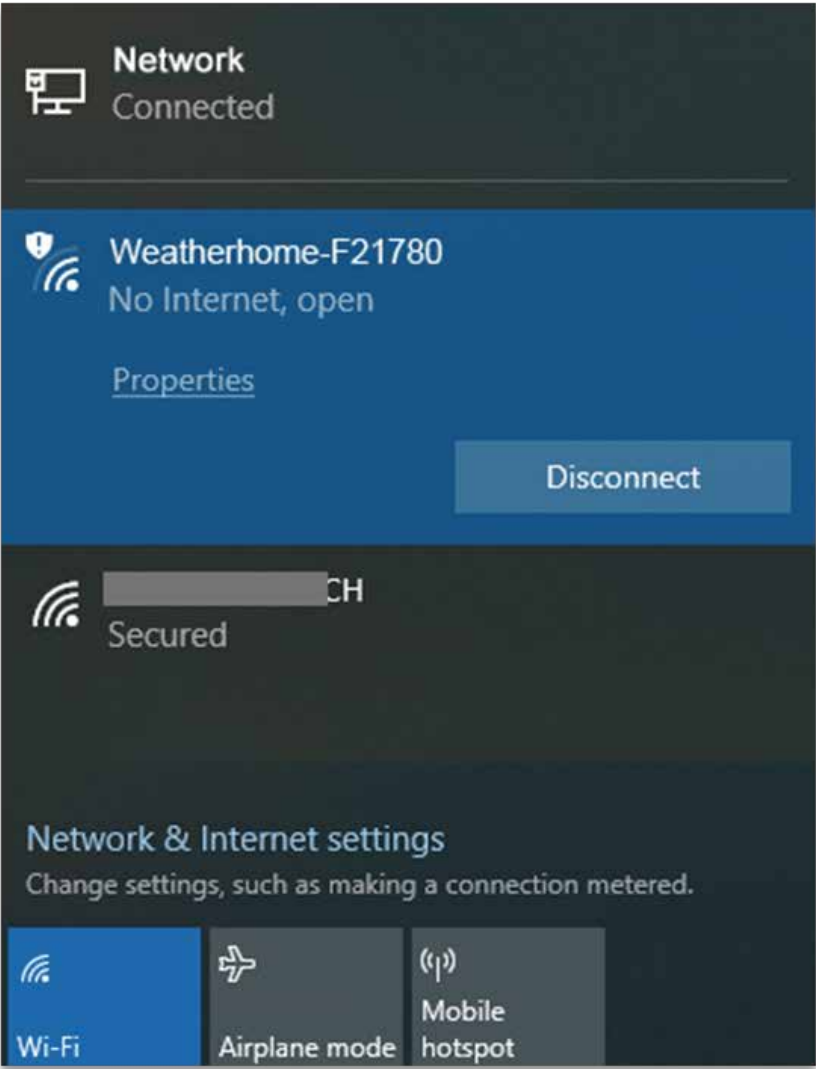
**Note:** After completing the WiFi setting of the display console, return your End-Device to your normal default WiFi connection.

**Note:** In WAP you cannot connect two or more devices at the same time when WAP mode.

### 2.1.1. CONNECT LAPTOP OR PC TO DISPLAY CONSOLE WIFI

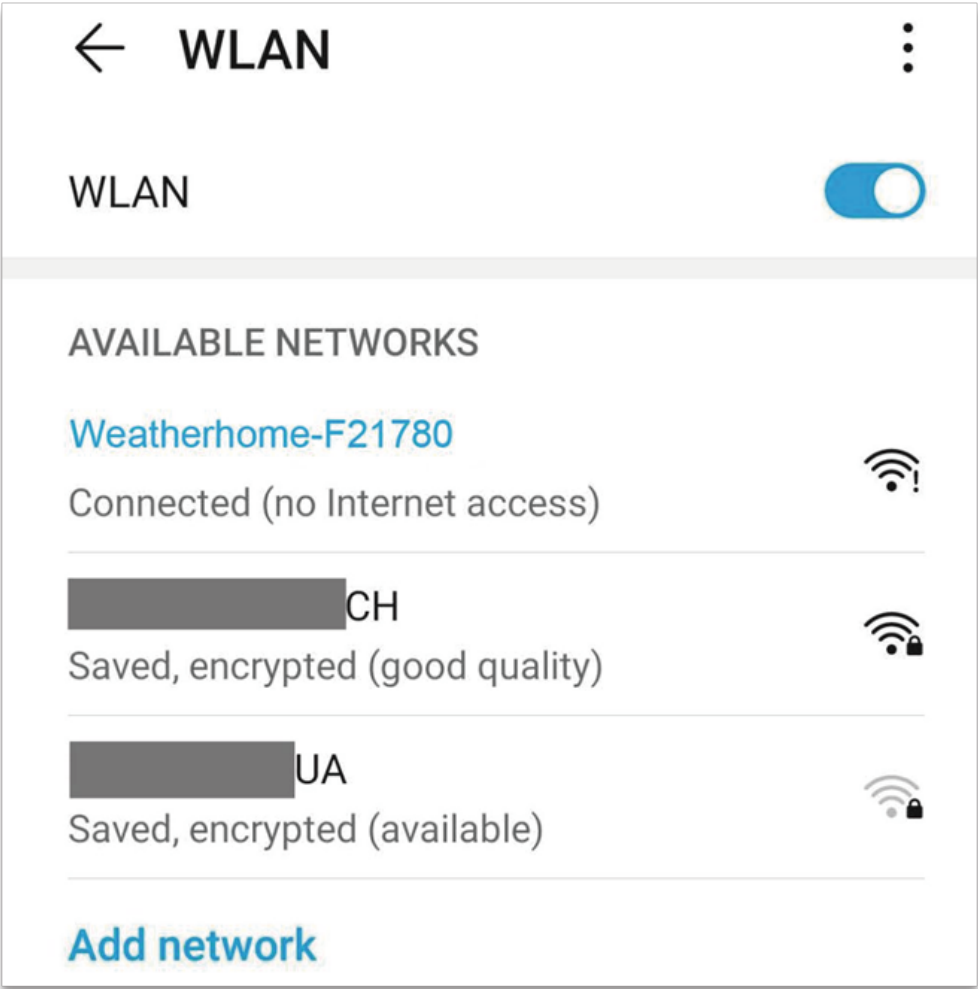
In Windows or MAC, select the PC network settings of your WLAN icon (or search “change WiFi settings” from computer) and connect to the WLAN network “**Weather-home**” as show in following figure.





2.1.2. CONNECT TABLET, OR SMART PHONE TO DISPLAY  
CONSOLE WIFI

Click the “Setting” icon on your tablet or smart phone, and select the WLAN, then connect to the “Weatherhome” network as shown in following figure.



### 3. DISPLAY CONSOLE WEB PAGE CONFIGURATION

Once you have connected your End-Device to the weather station display console WLAN, enter the following IP address <http://192.168.5.1> into the address bar of any internet browser to enter the configuration page of the display console.

**Note:** Some browsers treat [192.168.5.1](http://192.168.5.1) as a search result. In such cases, make sure that you also include the protocol “[http://](http://192.168.5.1)” ( “<http://192.168.5.1>” instead of “[192.168.5.1](http://192.168.5.1)”).

#### 3.1 CONSOLE NETWORK AND WEATHER SERVER SETUP

←

→

↻

http://192.168.5.1/

→

Input IP address into browser  
( http://192.168.5.1 )

Weather Setting

Wi-Fi network setup

Network

CH

Select the menu and choose your 2.4 GHz WiFi router or type in your router name above.

Password

\*\*\*\*\*

Status: Connected. IP: 192.168.10.220

→

Select your WiFi Router(SSID)  
(Support only 2.4 GHz Router)

→

Router's WiFi Password

Weather server setup

Upload wunderground.com

wunderground ID

K

1

Password

N

M

Upload weathercloud.net

weathercloud ID

98

98

Key

907

dda

→

Confirm to upload into wundergournd.com

→

Enter Your Station ID

→

Enter Your Station Key

→

Confirm to upload into weathercloud.net

→

Enter Your Weathercloud ID

→

Enter Your Weathercloud Key

Time Zone Setup

Time Zone

(UTC-07:00) Mountain Time (US & Canada)

Automatically adjust clock for Daylight Saving Time ☒

→

Time Zone Settings

→

DST ON/OFF

Save

→

Press Save to Confirm the Setting

Note: WLAN Networks with hidden SSIDs cannot be recognized for the “Network” entry. If the SSID of your WLAN is hidden, you will have to enter it manually.

Note: When you input the station ID and key, you must exactly copy and paste the source text. Take notice of spaces and upper or lower case of letters here.

3.2 TIME ZONE SETUP

Time Zone Settings (default: 0h). Based on the number of hours from Coordinated Universal Time, or Greenwich Mean Time (GMT).

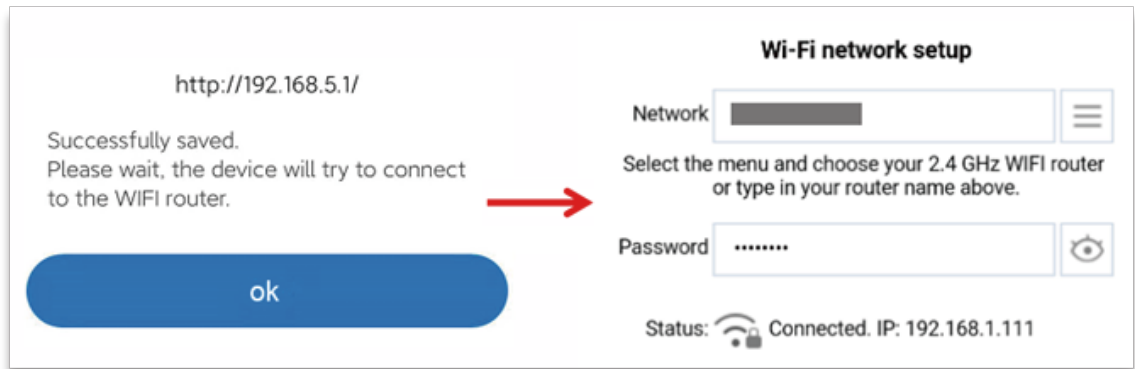
The following table provides time zones throughout the world. Locations in the eastern hemisphere are positive, and locations in the western hemisphere are negative.

Hours from GMT	Time Zone	Cities
-12	IDLW: International Date Line West	---
-11	NT: Nome	Nome, AK
-10	AHST: Alaska-Hawaii Standard CAT: Central Alaska HST: Hawaii Standard	Honolulu, HI
-9	YST: Yukon Standard	Yukon Territory
-8	PST: Pacific Standard	Los Angeles, CA, USA
-7	MST: Mountain Standard	Denver, CO, USA
-6	CST: Central Standard	Chicago, IL, USA
-5	EST: Eastern Standard	New York, NY, USA
-4	AST: Atlantic Standard	Caracas
-3	---	São Paulo, Brazil
-2	AT: Azores	Azores, Cape Verde Islands
-1	WAT: West Africa	---

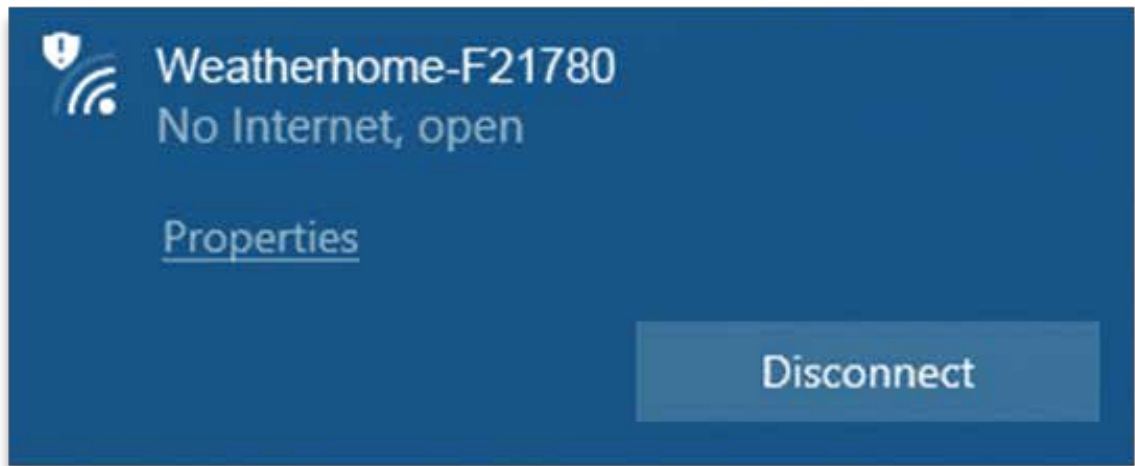
Hours from GMT	Time Zone	Cities
0	GMT: Greenwich Mean WET: Western European	London, England
1	CET: Central European	Paris, France
2	EET: Eastern European	Athens, Greece
3	BT: Baghdad	Moscow, Russia
4	---	Abu Dhabi, UAE
5	---	Tashkent
6	---	Astana
7	---	Bangkok
8	CCT: China Coast	Beijing
9	JST: Japan Standard	Tokyo
10	GST: Guam Standard	Sydney
11	---	Magadan
12	IDLE: International Date Line East NZST: New Zealand Standard	Wellington, New Zealand

3.3. PERMANENTLY SAVE THE CONFIGURATION DATA



Again check all the settings you have filled in for the configuration of the display console. After confirming that all information displayed is correct, click the button labeled “Save” for final confirmation.



When the web settings have been saved, disconnect your End-Device from the display console WLAN by clicking the “Disconnect” button, or the display console will automatically exit WAP mode.






3.4 WIFI CONNECTION STATUS

-  **WiFi icon is always on:** The display console is connected with your WiFi router.
-  **WiFi icon keeps flashing:** WiFi signal is not stable or the display console is trying to connect to the router.



**WiFi icon is gone:** The display console is not connected to the WiFi router. Connect the router.

When the console successfully connects to any of your weather servers, the data signal icon  will appear on the LCD display (at the right of the outdoor humidity). If the data signal icon  is flashing, the weather station display console is currently uploading to the server. If the icon  disappears, the console has not connected to the weather server for more than 30 minutes.

### 3.5 TIME SERVER SYNC STATUS

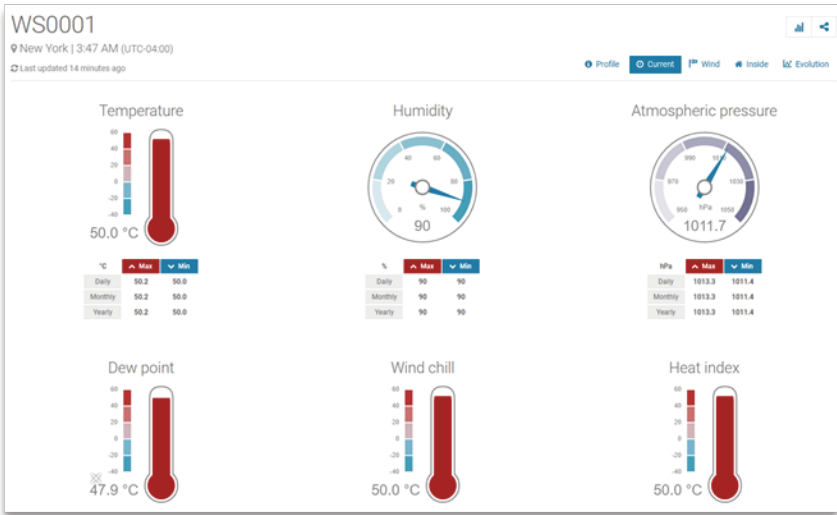
After the display console has connected to the internet, it will attempt to connect to the internet time server to obtain the time. Once the connection succeeds and the console's time has updated, the **SYNC** icon will appear on the LCD. The time will automatically synchronize to the internet every hour.

**Note:** Time synchronize method: Synchronized through internet UTC time server.

## 4. VIEW THE WEATHER STATION DATA VIA INTERNET

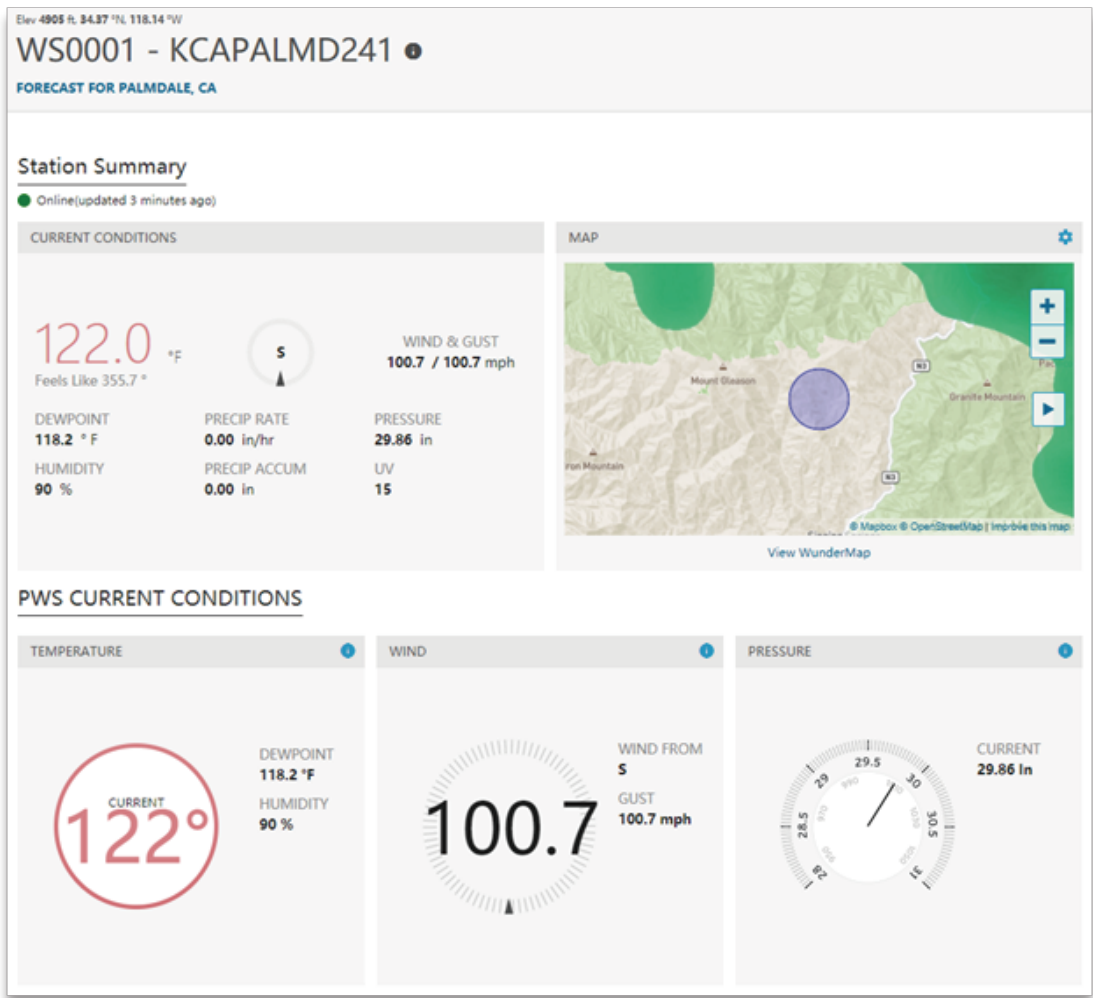
### 4.1 VIEW YOUR WEATHER STATION DATA ON WEATHERCLOUD

Log into <https://www.weathercloud.net/> with your previously registered email and password. You will be automatically directed to the weather data of your weather station (If it has recently synced data to Weathercloud).



## 4.2 VIEW YOUR WEATHER STATION DATA ON WUNDERGROUND

Log into <https://www.wunderground.com/> with your previously registered email and password, or visit: <https://www.wunderground.com/dashboard/pws/STATIONID>, where STATIONID is your weather station ID (example, KCAPALMD241).



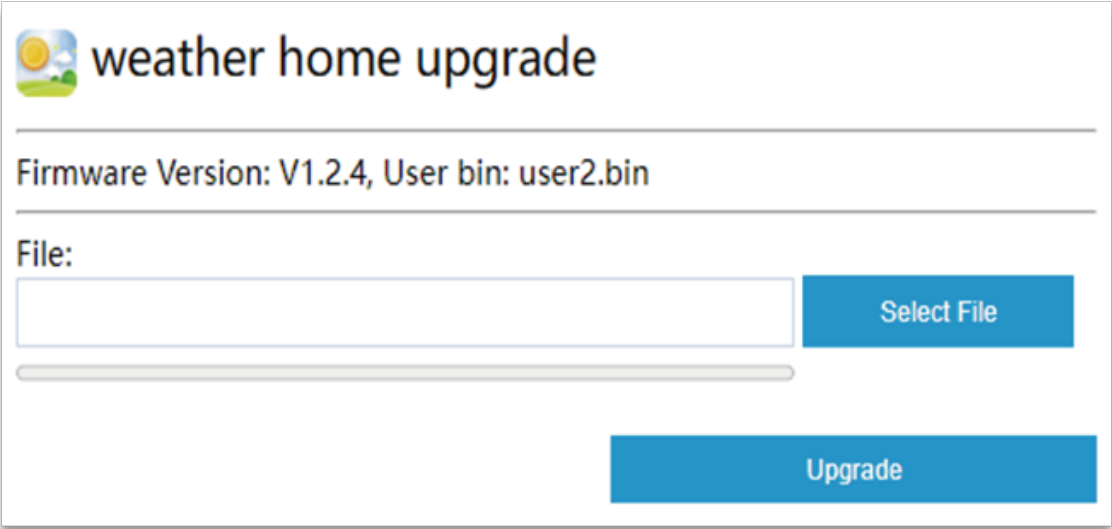
## 5. FIRMWARE UPGRADE ON DISPLAY CONSOLE

You may get the latest firmware of the console as below

### 5.1. First Connect Display Console's WiFi (Refer to Part 2)



5.2. Once WiFi is connected, enter the following IP address into the browser’s address bar: [http://192.168.5.1/ upgrade.html](http://192.168.5.1/upgrade.html), the following website page will be displayed on your browser.



weather home upgrade

---

Firmware Version: V1.2.4, User bin: user2.bin

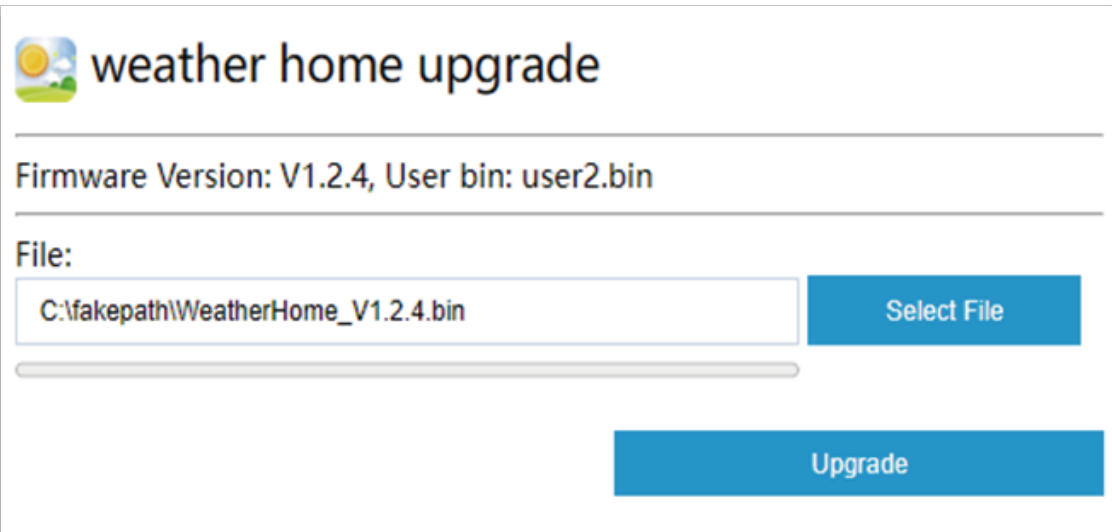
---

File:

Select File

Upgrade

5.3. Now click the “[Select File](#)” button and select the binary file (extension “.bin”) intended for updating your display console.



weather home upgrade

---

Firmware Version: V1.2.4, User bin: user2.bin

---

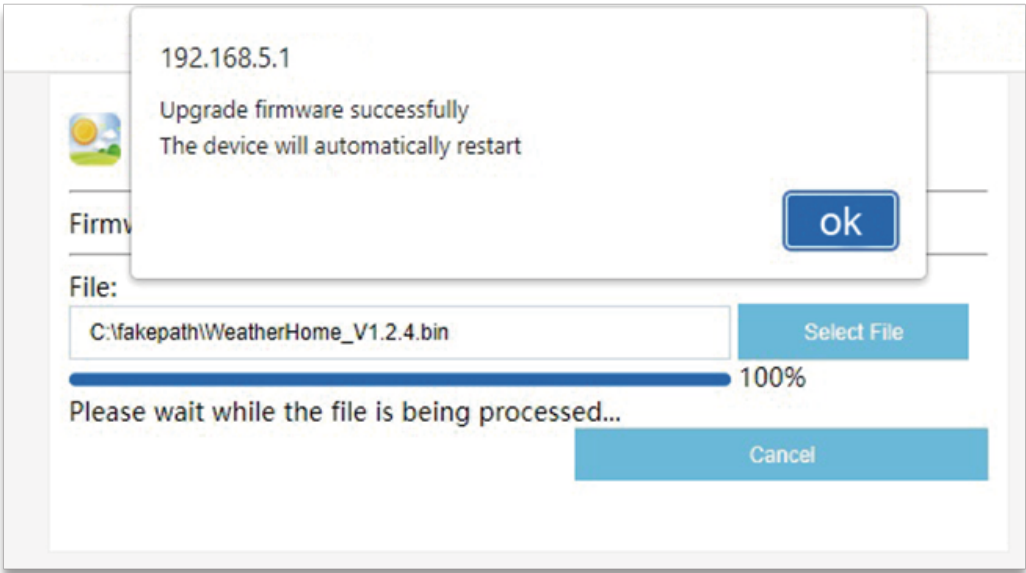
File:

C:\fakepath\WeatherHome\_V1.2.4.bin

Select File


Upgrade

5.4. Click “[Upgrade](#)” and start to update. Once the process has been successfully completed, a prompt page will remind you that the WiFi firmware will restart automatically.



Note: In this upgrade process, only the **WiFi firmware is updated**. If the console is not reset once the upgrade is completed, the console will automatically exit WAP mode.

6. TROUBLE SHOOTING GUIDE

WiFi does not display on console	<p>Check your router for problems.</p> <p>Check WiFi symbol on the display. If wireless connectivity is successful the WiFi icon  will be displayed all the time</p> <p>Make sure your modem WiFi settings are correct (network name and password).</p> <p>Make sure the console is plugged into AC power. The console will not connect to WiFi when powered by batteries only.</p> <p>The console only supports and connects to 2.4GHz routers. If you own a 5 GHz router, and it is a dual band router, you will need to select and operate at 2.4GHz.</p>
----------------------------------	---

	<p>The console does not support guest networks.</p>
<p>Data not reporting to <a href="http://www.wunderground.com">www.wunderground.com</a> or <a href="http://www.weathercloud.net">www.weathercloud.net</a></p>	<p>Confirm your station key is correct. It is the password you registered on Wunderground.com.</p> <p>Your Wunderground.com password cannot begin with a non-alphanumeric character (a limitation of Wunderground.com, not the station). Example, \$worknet is not a valid password, but worknet\$ is valid.</p> <p>Confirm your station ID is correct.</p> <p>Make sure the date and time is correct on the console. If incorrect, you may be reporting old data, not real time data.</p> <p>Make sure your time zone is set properly. If incorrect, you may be reporting old data, not real time data.</p> <p>Check your router firewall settings. The console sends data via Port 80.</p>

7. WIFI SPECIFICATIONS

WIFI Standard:	802.11 b/g/n
WiFi Console RF Frequency:	2.4 GHz
Device Compatibility:	Built-in WiFi with WAP Mode, Smart Device (laptops, computers, smart phones and smart pads).
Web Browser Compatibility:	HTML 5 (such as the latest versions of Chrome, Safari, IE, Edge, Firefox or Opera).
Line of sight WiFi RF transmission (in open air):	80 ft. (20m)



## WIFI SETUP GUIDE

---

### MANUAL



Chat Support



Product Inquiry



Orders FAQ



Product Assembly



Notes

DESIGNED BY **VIVOSUN** IN CALIFORNIA  
Made in P.R.C