WiFi Setup Guide

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1. Weather Server Registration Guide

Note: If you have registered the Weathercloud and wunderground account before, only need to create *"New Device"* to add your new weather station information.

Note: You can register one or both of wunderground and weather cloud to upload the weather data.

1.1 Sign up on Weathercloud.net

Note: You are advised to register on computer desktop or laptop for better experiences.

1) Visit the *https://www.weathercloud.net* website, then input a Username, Email and Password as show in Figure 1,and click the "Sign up" button to create your free account.



Note: Create and Input new password on "*Join us today*" page, not your personal Email password. (No privacy will be exposed)

2) You will receive an *prompt page* from Weathercloud **activation Email** in your registered mailbox .



3) Check your registered email, confirm and click *"Activate your Weathercloud account"* button.

Activate y	our Weath	herclo	ud acco	ount	
Hello MyWeat	ner,				
Thanks for regi	tering and welco	ome to W	eathercloud	4!	
To activate you	new account ple	ease click	on the link	below:	
Activate your	Weathercloud acco	ount			
Have fun!					
	Follow	us on so	ocial med	ia.	
		-			

- 3 -

4) Click the "*Sign in*" button to enter the account login page of Weathercloud.



5) Input the previous **"Sign up"** Username (Email address) and password to log into the weathercloud.

G		#	۲	Sign up	Sign in
	Sig	gn in			
	Myweather				
	Si	ign in			
	Remember me	Forgot your passwo	nd?		
	Not a member y	et? Sign up for free.			

Note: Choose *"Remember me"* to save the Username and password avoid repeated input in the future.

6) Select "Create device" button and input the information about your weather station and location. Blanks with Red * must be filled in.

Note: <u>You can select any weather station Model and</u> <u>Link Type here.</u>. The both parameters have no influence on the functionality.

G	*	۲	8	1	M	0
Your devices						٥
You have no devices.						
Treate device						

Create new	device		< Back	
Basic information Note: You c	an select any model and	Location d link type here		
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 at 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	*
escription	Coordinates		
		Get coordinates	
	Latitude *		
	Longitude #		
	Elevation	0.0	π
	Height	0,0.	π



8) Once complete the parameters of Longitude and Latitude, click the *"Create"* button at the bottom side.

	Get coordinates	
Latitude *	40.71277625634872	
Longitude *	-74.00597425460125	
Elevation	0.0	m
Height	0.0	m

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

weathercloud				d Have	O Mo	E bester	B Reports	W Nes	0
Your devices								4	+ nim
Date part	Andre	1.4mmmm	Sallery						
0	Other at an ex	Tana Tool.			-	timery .		0.54	ng.

			👫 Home	😢 Мар	S Database	Reports	Plots
Location		Gallery					+ N
• New York:	7.59 14 W 0.0m	10.227*		0 fol	lowers		Ø Setting:
						۲	View
						ę	Show on map
	Link de	vice			×	9	Dashboard
T	ie link details for	your device WS0001	are provided below:			-	Link
W	eathercloud ID					+	Edit device
9	8	dB				-	Edit gallery
Ke	ey.						Edit records
9	0	da	6				Edit alerts
Fo	llow the instruct	ions here.					Connect to Twitt
						-	Get Sticker
_						6	Get OR code:

Note: The *"weathercloud ID"* and *"Key"* also will sent to your registered email.

1.2 Sign up on Wunderground.com

1) Visit the "*https://www.wunderground.com*" website, and select "*Join*" button to create a free account.



2) When you enter into the *sign up* page, input the Email and password, then click *"Sign up for free"* button to create your own account.

W Sensor No	etwork Maps & Radar More 🗸	Search Locations	💿 Log in Join 🌣
Popular 25 60	n Francisco, CA Manhattan, NY A Sc F Fair S5 °F Fair	hiller Park, IL (60176) Soston, MA *F Mostly Cloudy 78 *F Partly C	loudy A Partly
Member	Account		
	Join Weather Und	erground	
	 Choose adding your webcam or per You can delete your account at any 	time from your member settings.	
	The Weather Company needs your em Underground account.	ail to create your Weather	
	Email		
	myweather@ co	m	~
	Password (5-30 characters)	Show	e
			~
	Confirm New Password:		
	✔ Lagree to the Terms of Use		
	Sign up f	for free	
-	Álready have an a	ccount? Sign In	

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

(A) Welcom	e!
You are now an offic	ial Weather Underground member.
Personal Weather Stations	Category 6™
Join our global community connecting data from environmental sensors like weather stations and air quality monitors. Provide rich hyperlocal weather data today.	Keep up with the latest weather news and happenings. Check out our Category 6 nd news site with update articles written by our resident meteorologist, Bob Henson.
Learn More About Weather Stations	Read the Latest Weather News
Weather Maps	Wundermap
Check out our extensive catalog of weather maps ranging from Radar to 12 Hour Surface Forecast.	Our Wundermap is also one of most data rich interactive weather maps on the market today.
View Our Many Catalon	Check Out Wanderman

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

San Francisco, CA	Annhattan, NY A Schiller Park, IL (60176) Soloson, MA 4 "F Mostly Cloudy 67 "F Cloudy 56" F Clear	Houston, TX 5t James 84 'F Fair 64 'F Cle	's, England, United Kingdom (WC2H 7DE) #
ember Account			
	Sign in to Weather U	nderground!	
	myweather@ com		~
	Password	Forgot your password?	
		_	~
	Sign in Don't have an account?	Sign up	
	Terms of Lise Privacy Policy Please read these terms carefully. By using We	ather Underground or signing	
	up for an account, you're agreeing to these ter	ms.	

lember Settings			
EMAIL & PASSWORD HOME &	FAVORITES MY DEVICES API KEYS		
hange Your Email	Change Your Password	Vour Membership	
Current Email: myweather@com	Current Password:	Status: Free Membership	Signed Up: 7/17/21
HERE ENTROLOGY	New Password: Sticw	Delete Accou	int
Save Email Settings	Confirm New Password:		
	Save Pasaword Change		

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

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

	nsor Network Maps & Radar	Severe Weather	News & Blogs M	obile Apps More 🗸	Search Locations	💿 My Profile 🌣
Manhattan NV						
Member Setting	gs					
EMAIL & PASSWORD	HOME & FAVORITES	MY DEVICES	API KEYS			
Manage Devices						Add New Device
0 DEVICES TOTAL						
	Wear from 9 gassi yox	No d her Underground is a d environmental sensors we can provide the ric ons. The future of wea shink. Join our global	levices to sl global community Ree weather statio h, hyperlocal data y ther is personal, hyp community and coo forecasting.	NOW of people connecting du ns and all quality monit you need to power your pericoal, and swarter th intribute to the future o	nta ors e	

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

Note: <u>You can select any Model or Other in the below</u> <u>Personal Weather Station blank.</u> The parameter have no influence on the functionality.

UNDERGROUN	D Sensor Network	Maps & Radar	Severe Weather Ne	ws & Blogs Mobile App	More 🛩 😒	arch Locations	My Profile	\$
Manhattan, NY								
Add a New	Device							
au a New	Device							
TYPE LO	DCATION DE	TAILS DON	Æ					
elect a Devic	e Type							
		Note: Yo	ou can sele	ect any mode	or other			
	_						2	59
				1				_
Perso	onal Weather S	tation		- 0	tdoor Webca	m		-
Perso Det other	onal Weather S	tation	Next		Itdoor Webca fect camera type	m	-	
Person	onal Weather S	tation	Ned	S S	itdoor Webca lect camera type	m		
Perso	onal Weather S	tation	Next	Sel Sel	itdoor Webca lect camera type	m		
Personal other	onal Weather S	itation	Net		itdoor Webca lect camera type	m		

5.2) Device Location "Address" or "Manual" Option SetAddress Option: Simply enter the detailed address close to

the location of your personal weather station. The database of Wunderground website will automatically find the associated address and shows on the map.

Add a New PWS TYPE LOCATION DETAILS DONE	
Set Device Name & Location	50%
Device Location: Address Manual Mounds View Your Location has been verified and added! Envoise: 195 ft. Lat, Len: 45.11492.191 Neighborhood: Mounds View Time Jone: America(Tricago	And a conformation of the set of

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

Add a New PWS	
Set Device Name & Location	50%
Device Location: Address Manual 34.366,-118.139 Your Location has been verified and added! Elevation: 4005 ft. Lat, Lon: 34.366, -118.139 Neighborhood: Palmdale	Secramètes Secramètes Secramètes Secramètes Comp Clay Secramètes Comp Clay Secramètes Comp Clay Secramètes Secramète
Back Nert	Santi Barlarz Lezi Angelezi Filiaraz Visanasi Visanasi Oladi da Galdi da Galdi da Galdi da Charlo Combuelle Linguese Hit Theo

5.3) Once you finished the *"LOCATION"* page, click the next button to *"DETAILS"* Page.

6) In "**DETAILS**" Page, the blanks with red "**Required**" are mandatory fields, and it's no need to change the filled fields. Click the "**I** Accept" option and "**Next**" button to "**DONE**" Page.

WEATHER UNDERGROUND Sensor Network Maps & Radar Severe Weather News &	k Blogs Mobile Apps More V Search Locations 💿 My Profile 🌣
Recent Crises Mankettan, NY	
Add a New PWS	
Tell Us More About Your Device	
	75%
Name:(Required)	Surface Type:
WS0001	•
Elevation:(Required)	Associate Webcam:
4905	Select WebCarrs
Device Hardwares(Required)	
other *	
Height Above Ground:	
FL Ablove Ground	
You Make Our Forecasts More Accurate, We Respect Your Privacy	
Contribute to the Weather Underground community by sharing some information about the experience from the Weather Underground community. We may also share certain da	yourself and your sensor. We use this information to mangage your account and to improve ta for commercial purposes such as your sensor location.
Learn more about how we take your privacy seriously	
(Required) I Accept I Deny	
Email Preferences:	
I would like to receive PWS notifications.	
Back Next	

7) In *"DONE"* Page, the device *"Station ID"* and *"Station Key"* are shown, copy and record the information for late use (*Section 3.1*).

TYPE LOCATION DETAILS DONE Registration Complete! Nongratulations! Your personal weather station is now registered with Veather Underground. nter the information below to your weather station software. Your PWS Station ID; Copy credentials Copy credentials		DIAIC									
TYPE LOCATION DETAILS DONE Registration Complete! Nongratulations! Your personal weather station is now registered with Veather Underground. Type Your PWS Station Key: D Copy credentials Configure Your Software	Add a New	PVVS	-	-							
tegistration Complete! I0 I0 I0 I0 I0 I0 I0 I0 I0 I	TYPE LO	CATION I	DETAILS	DONE							
10 ongratulations! Your personal weather station is now registered with reather Underground. ter the information below to your weather station software. Your PWS Station Key: D Copy credentials Configure Your Software	edistration C	ompletel									
10 ongratulations! Your personal weather station is now registered with feather Underground. ter the information below to your weather station software. Your PWS Station ID: Copy credentials Configure Your Software	egististion	empiece.									
ongratulations! Your personal weather station is now registered with eather Underground. ter the information below to your weather station software. Your PWS Station for: Copy credentials Configure Your Software										1	0
ongratulations! Your personal weather station is now registered with eather Underground. Ier the information below to your weather station software. Your PWS Station ID: R II Station Key: D d Copy credentials Configure Your Software											
ongratulations! Your personal weather station is now registered with teather Underground. ter the information below to your weather station software. Your PWS Station ID: K III Station Key: D d Copy credentials Configure Your Software											
Peather Underground. ter the information below to your weather station software: Your PWS Station ID: K II Station Key: D d Copy credentials Configure Your Software											
Your PWS Station ID: K II Station Key: D d Copy credentials	ongratulationsi Y	our personal w	veather stati	on is now re	gistered	with		_	-		
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Station ID: R III Station Key: D d Copy credentials Configure Your Software	ongratulations! Y feather Undergro iter the information b	our personal w ound. elow to your weath	veather station	on is now re vare.	gistered	with	ſ		1		
Station Key: D d d d d d d d d d d d d d d d d d d	ongratulations! V leather Undergro ter the information b Your PWS	our personal w ound elow to your weath	veather stati	on is now re	gistered (with			1		
Copy credentials Configure Your Software	ongratulations! V leather Undergro ter the information b Your PWS Station ID:	our personal w bund. elow to your weath	veather stati	on is now re vare.	gistered	with					
Copy credentials Configure Your Software	ongratulations! V leather Undergro ter the information b Your PWS Station ID:	'our personal w sund. elow to your weath	veather station softw	on is now re vare.	gistered (with					
Configure Your Software	ongratulationsi V leather Undergro ter the information b Your PWS Station ID: Station Key:	Your personal w sund. elow to your weath K D	veather stati her station softv 11	on is now re vare.	gistered (with					
	ongratulationsi V leather Undergro ter the information b Your PWS Station ID: Station Key: Copy credent	Your personal wound. elow to your weath Kung D	veather station soft	on is now te	gistered (with					

Note: In "DONE" Page, click the "View details" button, your weather station and the associated station ID and Key will also be displayed.

	Sensor Network	Maps & Radar	Severe Weather	News & Blogs	Mobile Apps	More 🗸	Searc	h Locations	💿 My	Profile 🗘
Recent Gibies Manhattan, NY										
Member S	ettings									
EMAIL & PASSWO	DRD HOME &	FAVORITES	MY DEVICES	API KEY	s					
Manage Devi	ces								Add No	ew Device
2 DEVICES TOTAL										
Name	Location		Status	D	Key		Туре	Manage		
W50001	Paimdale (Paimdale), CA	• Offline	KCAPALMD24	1 NHW	K9EKM	PWS	Edit Delete C	opy credentials	:
			Itams par page							
			items per page.	10 🗸	1-2012	3				

2. WiFi Setup of Display Console

Note: Place the distance between the router and display console less than 16ft (5m) to ensure that the WiFi signal is stable.

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 wiFi 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 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 (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 *"Weatherhome"* as show in following figure.

臣	Netwo Conne	ork cted				
°a.	Weath No Inte Proper	erhome-F217 ernet, open <u>ties</u>	80			
				Disc	connect	
(h.	Secure	CH				
Network & Internet settings Change settings, such as making a connection metered.						
<i>(i</i> . Wi-Fi		Airplane mode	(۱۷) Mc hot	bile spot		

2.1.2 Connect Tablet, or Smart Phone to Display Console WiFi

Click the **"Setting"** icon on the Tablet or Smart phone, and select the WLAN, then connect to the **"Weatherhome"** network as show 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 address bar of any internet browser to enter the configuration page of the display console.

Note: Some browsers treat **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" instead of "192.168.5.1").

Weather	Setting		
	Wi-Fi network setup		
Network	E CH	=	Select your WiFi Router(SSID)
Selec	t the menu and choose your 2.4 GHz WIFI router or type in your router name above.		(Support only 2.4 GHz Router)
Password		\odot	> Router's WiFi Password
Status:			
	Weather server setup		
pload wunderg	ground.com 🗆		> Confirm to upload into wundergournd.com
ID	K()		> Enter Your Station ID
Password	N		> Enter Your Station Key
pload weather	cloud.net 🗆		> Confirm to upload into weathercloud.net
ID	98		> Enter Your Weathercloud ID
Key	907 0 000		> Enter Your Weathercloud Key
	Time Zone Setup		
Time Zone	(UTC-07.00) Mountain Time (US & Canada)	*	> Time Zone Settings
automatically ad	djust clock for Daylight Saving Time 🛛		DST ON/OFF
	Internet Time Server Setup		
Server	Time nist gov	*	> Internet Time Server

3.1 Console Network and Weather Server Setup

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 Input station ID and key, copy and paste source text strictly (Take notice of space 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 times zones throughout the world. Locations in 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

Hours from GMT	Time Zone	Cities
-3		São Paulo, Brazil
-2	AT: Azores	Azores, Cape Verde Islands
-1	WAT: West Africa	
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	Bejing
9	JST: Japan Standard	Tokyo
10	GST: Guam Standard	Sydney
11		Magadan

Hours from GMT	Time Zone	Cities
12	IDLE: International Date Line East NZST: New Zealand Standard	Wellington, New Zealand

3.3 Save The Configuration Data Permanently

Check again all the settings you have filled in the configuration website of display console, if you confirm that all information is correct, click the button labeled **"Save"** to finally confirm.

	Wi-Fi network setup	
http://192.168.5.1/	Network	E
Successfully saved. Please wait, the device will try to connect to the WIFI router.	Select the menu and choose your 2.4 GP or type in your router name ab	Hz WIFI route
	Password	0
ok	Status: Connected. IP: 192,168.	1.111

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 keep flashing: WiFi signal is not stable or the display console is trying to connect the router.

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

When the console successfully connects to your any website of 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 is disappears, the console is 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 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 per an 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 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 Connect the WiFi of Display Console firstly (Refer to Part 2)

5.2 Once WiFi connected, enter the following IP address into the browser's address bar: *http://192.168.5.1/upgrade.html*, the following website page will be displayed on your browser.

Firmware Version: V1.2.4, User bin: user2.	bin
File:	
	Select File
	Select F
	Upgrade

5.3 Now click *"Select File"* button and select the binary file (extension ".bin") intended for updating your display console.

Firmware Version: V1.2.4, User bin: user2.bir	
File:	
C:\fakepath\WeatherHome_V1.2.4.bin	Select File

5.4 Click *"Upgrade"* and start to update. Once the process has been successfully completed, a prompt page will reminds you that the WiFi firmware will automatically restarted.

2	Upgrade firmware successfully The device will automatically restart	
Firmv		ok
File:		
C:\fal	epath\WeatherHome_V1.2.4.bin	Select File
_		100%
Please	wait while the file is being processed	
		Cancel

Note: In this upgrade process, only update the *WiFi firmware*, the console doesn't reset, once the upgrade is completed, the console will automatically exit WAP mode.

6. Trouble Shooting Guide

WiFi does not display on console	Check your router for problems.	
	Check WiFi symbol on the display. If wireless connectivity is successful the	
	WiFi icon will be displayed all the time	
	Make sure your modem WiFi settings are correct (network name, and password).	
	Make sure the console is plugged into AC power. The console will not connect to WiFi when powered by batteries	

	only.
	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 2.4GHz in operation
	The console does not support guest networks.
Data not reporting to www.wunderground. com or	Confirm your station key is correct. It is the password you registered on Wunderground.com.
www.weathercloud. net	Your Wunderground.com password cannot begin with a non-alphanumeric character (a limitation of Wundeground.com, not the station). Example, \$worknet is not a valid password, but worknet\$ is valid.
	Confirm your station ID is correct.
	Make sure the date and time is correct on the console. If incorrect, you may be reporting old data, not real time data.
	Make sure your time zone is set properly. If incorrect, you may be reporting old data, not real time data. Check your router firewall settings. The console sends data via Port 80.

7. WiFi Specifications

WIFI Standard:	802.11 b/g/n
WiFi Console RF Frequency:	2.4 GHz
Device Compatibility:	Build-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):	80ft (20m)