ACCUR8

User Manual

ACCUR8 DWS5100 Weather Station

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Disclaimer

ACCUR8 products are designed to monitor current and previous weather conditions for domestic use and should not be considered as predictive weather forecasting equipment. Contact your regional Met Office centre if you need weather forecasting data (www.metoffice.gov.uk).

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Errors and technical changes excepted.

Contents

1. Introduction

Thank you for purchasing the ACCUR8® DWS5100 Wi-Fi Weather Station with 5-in-1 Outdoor Sensor. The following user manual provides step-by-step instructions for installation, operation and troubleshooting.

This user manual is to be considered a component of the device. Read carefully before using the device. Keep in a safe place for future reference. When the device is sold or given to someone else, the user manual must be provided to the new owner/user of the product.

2. General Safety Instructions

Risk of electric shock

Any metal object may attract a lightning strike, including your weather station mounting pole. Never install the weather station in a storm.

This device has electronic parts operated via a power source (power supply and/or batteries). Improper use of this product can cause an electric shock. An electric shock can cause serious or potentially fatal injuries. The following safety information must be observed at all times:

• Children must only use the device under adult supervision. Only use the device as described in the manual; otherwise, you run the risk of an electric shock.

• Disconnect the device from the power supply before starting any maintenance or cleaning of the device.

• Position your device so that it can be disconnected from the power supply at any time. The power socket should be installed near the device and should be easily accessible as the mains cable plug is used to disconnect the device from the power supply.

• Before starting up the device, check the device, the cables and the connections for signs of damage.

• To disconnect the device from the power supply, always pull on the plug. Never pull on the cable.

• Never use a damaged device or a device with damaged live parts. Damaged parts must be replaced by an authorised service company.

• Only use the display console in complete dry environment and do not touch it with wet or moist parts of your body.

Risk of suffocation/choking

Improper use of this product can result in suffocation, especially for children. The following safety information must be observed at all times.

• Keep packaging materials (plastic bags, rubber bands etc.) away from children. They can cause suffocation.

• This product contains small parts that could be swallowed by children. There is a risk of choking.

Risk of explosion

Improper use of this product can cause an explosion. The following safety information must be observed at all times to prevent an explosion.

• Do not expose the device to high temperatures. Use only the supplied power supply or the recommended batteries. Do not short-circuit the device or batteries or throw them into a fire. Excessive heat or improper handling could trigger a short circuit, a fire, or an explosion.

Risk of damage to property

Improper handling can result in damage to the device and/or to the accessories. Always observe the following safety information when using the device:

• Never disassemble the device. In the event of a fault, please contact your retailer.

• Do not expose this device to high temperatures and protect it from water and high humidity.

• Do not immerse the unit in water.

• Protect the device from severe shocks or excessive vibrations.

• For this device, only use accessories and spare parts that comply with the technical information.

• Use only the recommended batteries. Always replace weak or empty batteries with a new, complete set of batteries at full capacity. Do not use batteries from different brands or with different capacities. Remove the batteries from the unit if it has not been used for a long time.

• Rechargeable batteries are not recommended.

Risk of voltage damage

The manufacturer is not liable for voltage damage due to improperly inserted batteries or through the use of an improper power adaptor.

3. Getting Started

The DWS5100 weather station consists of a display console (receiver), a sensor array with integrated outdoor transmitter, and mounting hardware.

3.1 Parts List

The DWS5100 weather station consists of the following parts (as referenced in Figure 1 below).

QTY	Item	Image
1	Display console Frame Dimensions (L x H x W): 135 x 26 x 96mm LCD Dimensions (L x W): 111 x 75mm	
1	Integrated outdoor transmitter Dimensions (L x H x W): 330 x 150 x 280mm	
1	Foot mounting (with pole insert) Dimensions: 84x 152 x 216mm	
1	Mounting bracket back plate (pole mount) Dimensions: 76 x 102 x 38mm	

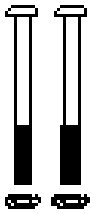
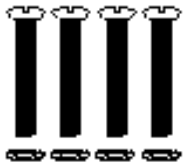
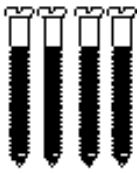
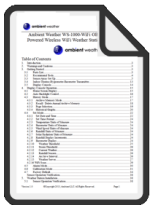
QTY	Item	Image
1	Mounting pole Dimensions: 76 x 76 x 25mm	
2	Pole mounting nuts (M3) / bolts Ø3)	
4	Pole mounting nuts (M5) / bolts (Ø5)	
4	Tapping screws	
1	User manual	
1	UK Power adaptor	

Figure 1

3.2 Recommended Tools

- Phillips screwdriver
- Compass or GPS (for wind direction calibration)
- Adjustable spanner
- Hammer and nail for foot mounting.

3.3 Sensor Assembly Set Up

Figure 2 shows the sensors included in the Integrated Outdoor Transmitter.

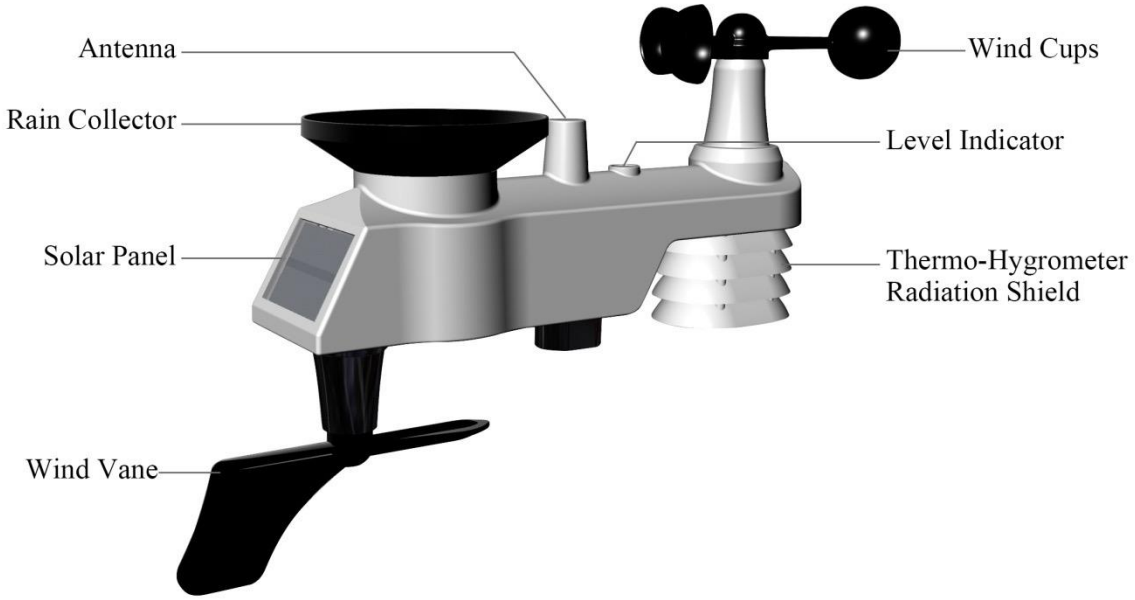


Figure 2

Insert batteries into the transmitter. Locate the battery door on the transmitter, push and open the battery compartment, as show in Figure 3.

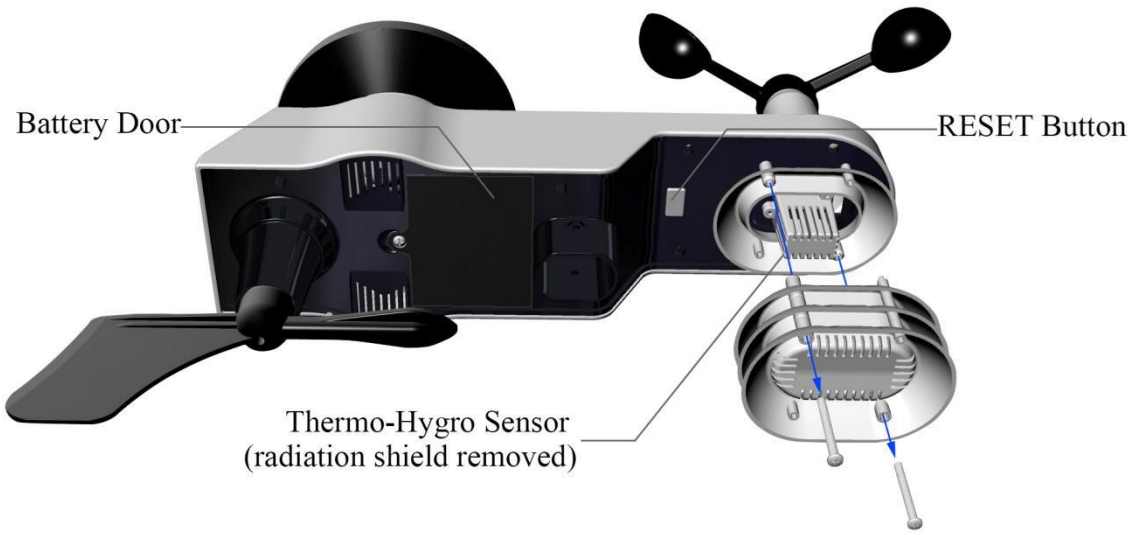


Figure 3

Remove the battery door on the back of the sensor by removing the set screw, as shown in Figure 4.

Figure 4

Insert 3 x AA batteries in the battery compartment, as show in Figure 5.

Figure 5

Close the battery door. Make sure the gasket (around the battery compartment) is properly seated prior to closing the door. Tighten the set screw.

Note: Do not install the batteries backwards. You can permanently damage the sensors. The solar panel does not charge the batteries, so rechargeable batteries are not needed or recommended.

Note: We recommend installing Lithium AA batteries for sensors.

The sensor LED indicator will light for 3 seconds, and then flash once per 16 seconds thereafter. Each time it flashes, the sensor is transmitting data.

Note: If the sensor does not power up after inserting the batteries, press the Reset button shown in Figure 6 below.

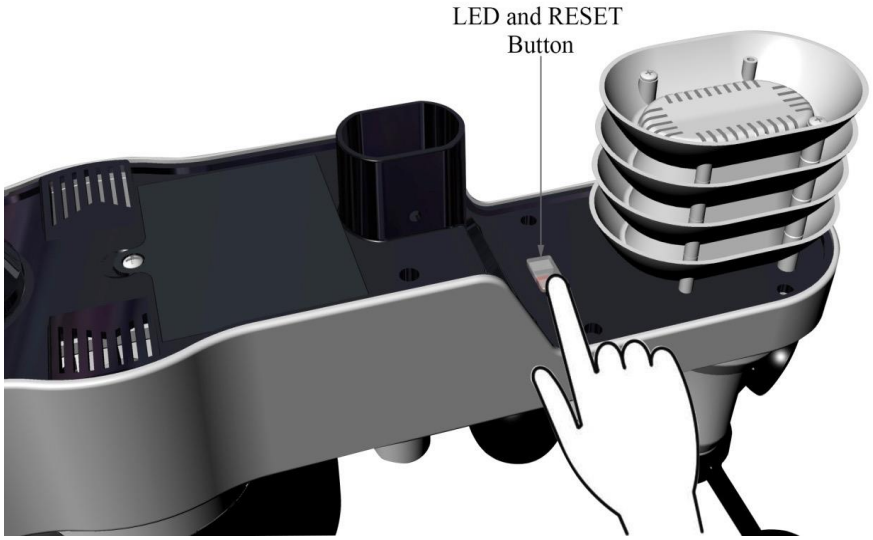


Figure 6

3.4 Display Console

Display Console Layout

The display console layout is shown in Figure 7.

Note: The following illustration shows the full LCD display for description purposes only; it will not appear like this during normal operation.

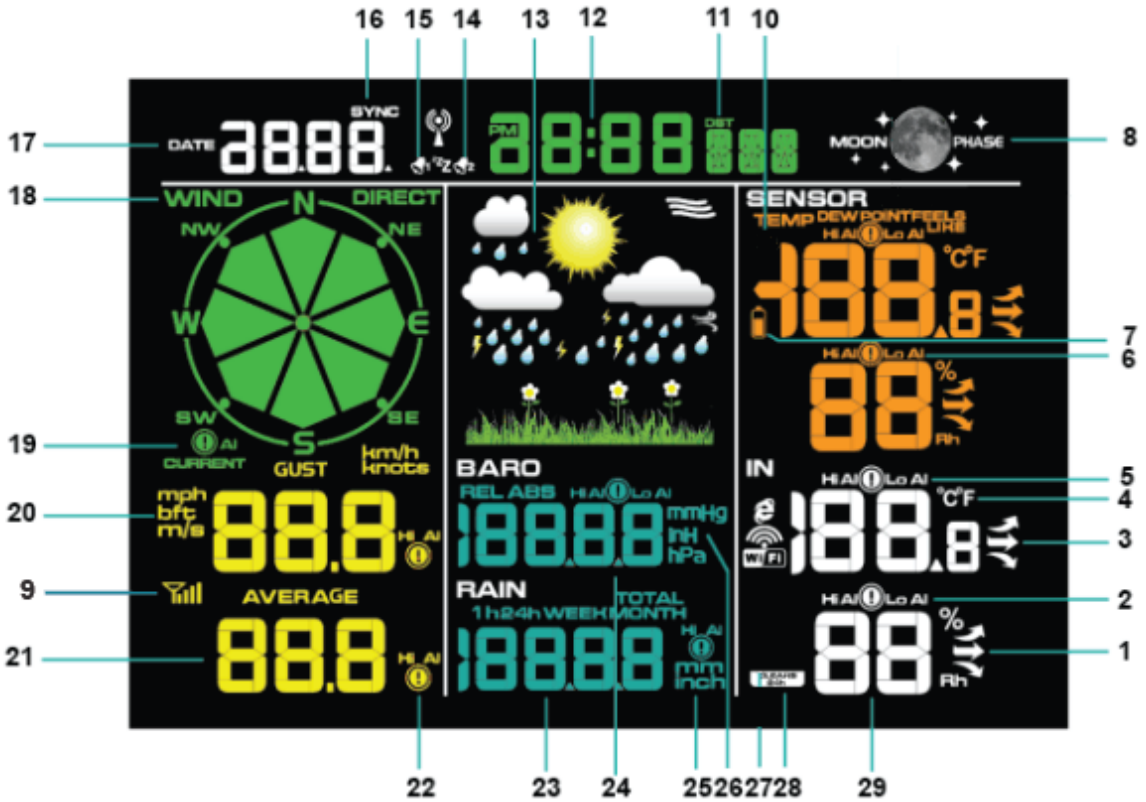


Figure 7

1. Indoor humidity change indication
2. Indoor humidity HI/LO alarm icon
3. Indoor temperature change indication
4. Temperature units (°F or °C)
5. Indoor temperature HI/LO alarm icon
6. Outdoor humidity HI/LO alarm icon
7. Battery low voltage warning
8. Moon phase
9. Reception icon
10. Outdoor temperature mode
11. Daylight Saving Time
12. Time
13. Weather tendency indicator
14. Time alarm 1
15. Time alarm 2
16. Time SYNC
17. Date
18. Wind direction
19. Wind speed units of measure
20. Wind speed gust display
21. Wind speed average display
22. Wind speed average HI alarm icon
23. Rainfall display (1h, 24h, week, month, total)
24. Pressure (REL and ABS) display
25. Rainfall units of measure
26. Pressure units of measure
27. WI-FI network
28. Max/min data auto 24-hour clear
29. Indoor humidity display

Display Console Set Up

It is recommended to plug in the power supply to reduce the battery consumption and extend the service life.

Note: The sensor array must be powered and updating before powering up the console, or the console will time-out searching for the sensors. Power up the console last.

Make certain the weather station sensor array is at least 3m away from the console and within 30m of the console. If the weather station is too close or too far away, it may not receive a proper signal.

Remove the battery door on the back of the display, as shown in Figure 8. Insert three AAA (alkaline or lithium)) batteries in the back of the display console. The display will beep once, and all of the LCD segments will light up for a few seconds to verify all segments are operating properly.

Note: The character contrast is best from a slightly elevated viewing angle.

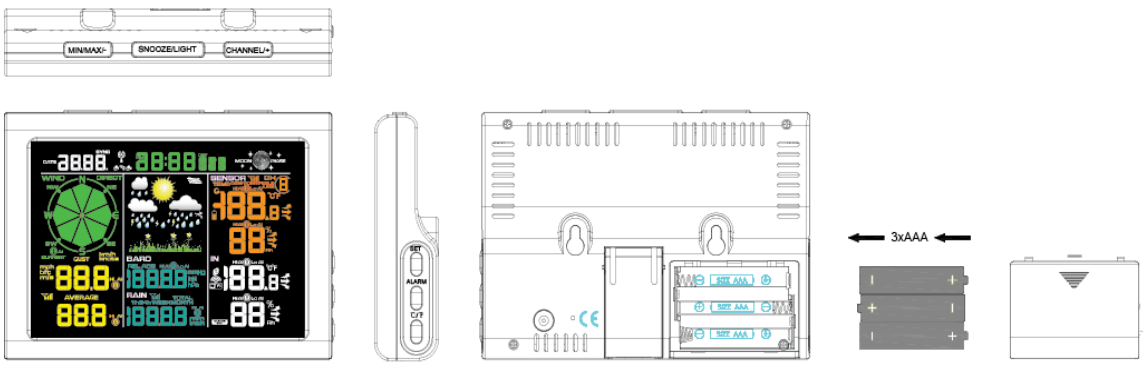


Figure 8

Replace the battery door, fold out the desk stand and place the console in the upright position.

The unit will instantly display indoor temperature, humidity, pressure, tendency, moon phase, and time. The wind speed, wind gust, wind direction, rain, outdoor temperature, and humidity will update on the display within a few minutes.

Do not press any menu buttons until the data from the outside transmitter is displayed, otherwise the outdoor sensor search mode will be terminated. When the outdoor transmitter data has been received, the console will automatically switch to normal mode, from which all further settings can be performed.

While in the search mode, the remote search icon will be constantly displayed.

Note: The power adaptor prongs are not designed to hold the plug in place if it is plugged into a ceiling outlet.

Figure 9

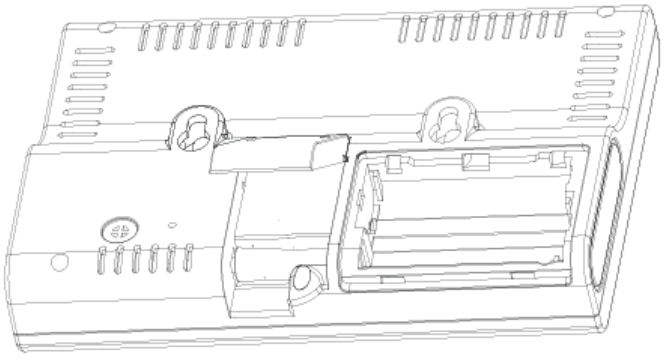


Figure 10

2: Insert the **DC plug** correctly; as shown in Figure 11.

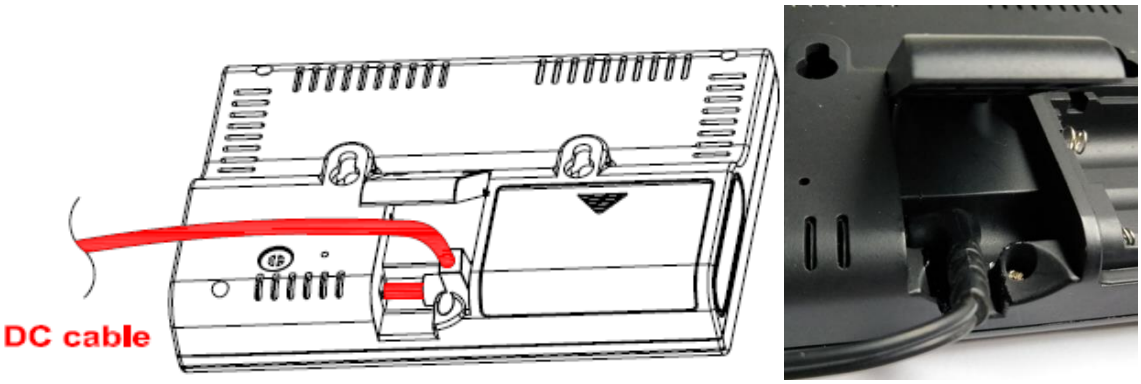


Figure 11

3: If you want to place it on a table or cabinet, open the desk stand and rotate the **DC plug** upwards 90 degrees; as shown in Figure 12.

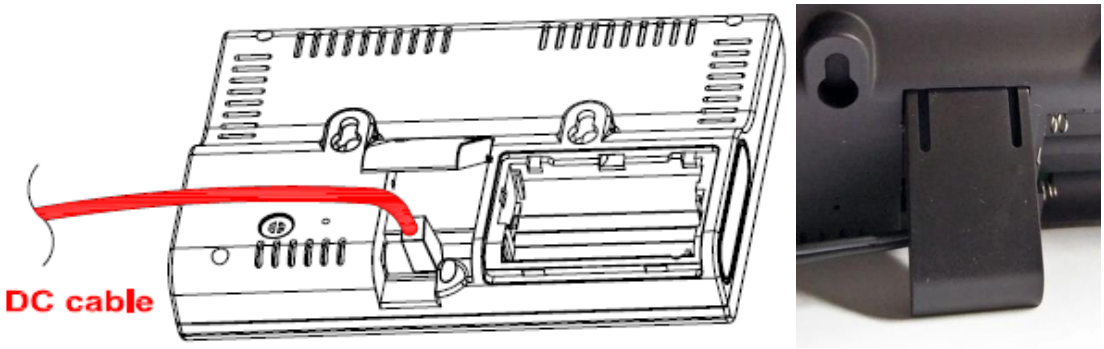


Figure 12

4: If you want to hang on the wall, rotate the **DC plug** down flat and close the desk stand; as shown in Figure 13.

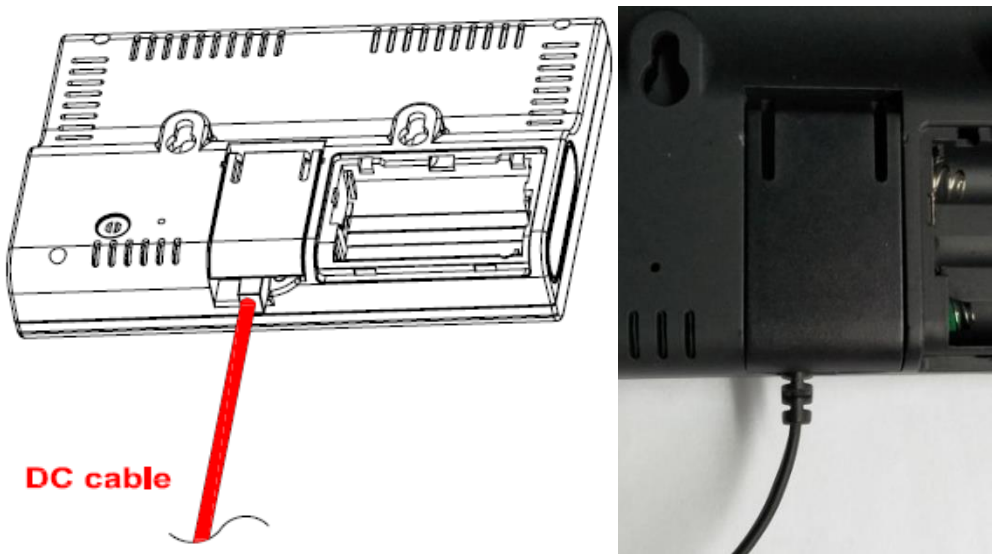


Figure 13

Note: If the power adaptor is plugged in, **BL ON** will display in the time area for three seconds when powered up. Conversely, if the power adaptor is not plugged in, **BL OFF** will be displayed.

Sensor Operation Verification

The following steps verify proper operation of the sensors prior to installing the sensor array.

1. Verify proper operation of the rain gauge. Tip the sensor array back and forth several times. You should hear a “clicking” sound within the rain gauge. Verify the rain reading on the display console is not reading 0.00. Each “click” represents 0.3mm of rainfall.

2. Verify proper operation of the wind speed sensor. Rotate the wind cups manually or with a constant speed fan. Verify the wind speed is not reading 0.0.

3. Verify proper operation of the indoor and outdoor temperature sensors. Verify the indoor and outdoor temperature readings match closely with the console and sensor array in the same location (about 3m apart). The sensors should be within 2°C (the accuracy is ±1°C). Allow about 30 minutes for both sensors to stabilise.

4. Verify proper operation of the indoor and outdoor humidity sensors. Verify the indoor and outdoor humidity readings match closely with the console and sensor array in the same location (about 3m apart). The sensors should be within 10% (the accuracy is ± 5%). Allow about 30 minutes for both sensors to stabilise.

4. Weather Station Installation

4.1 Pre-Installation

Before installing your weather station in its permanent location, we recommend operating the weather station for one week in a temporary location with easy access. This will allow you to check out all of the functions, ensure proper operation, and familiarise you with the weather station and calibration procedures. This will also allow you to test the wireless range of the weather station.

4.2 Site Survey

Perform a site survey before installing the weather station. Consider the following:

1. You will need to clean the rain gauge once per year and change the batteries every year. Provide easy access to the weather station.

2. Avoid radiant heat transfer from buildings and structures. In general, install the sensor array at least 15cm from any building, structure, ground, or roof top.

3. Avoid wind and rain obstructions. The rule of thumb is to install the sensor array at least four times the distance of the height of the tallest obstruction. For example, if the building is 6m tall, install it 4 x 6m = 24m away. Use common sense: if the weather station is installed next to a tall building, the wind and rain will not be accurate.

4. Wireless Range. The radio communication between receiver and transmitter in an open field can reach a distance of up to 100m, providing there are no interfering obstacles such as buildings, trees, vehicles, or high voltage lines. Wireless signals will not penetrate metal buildings. Most applications will only reach 30m due to building obstructions, walls, and interference.

5. Radio interference from devices such as PCs, radios or TV sets can, in the worst case, entirely cut off radio communication. Please take this into consideration when choosing console or mounting locations.

4.3 Best Practices for Wireless Communication

Wireless communication is susceptible to interference, distance, walls, and metal barriers. We recommend the following best practices for trouble free wireless communication.

1. **Electro-Magnetic Interference (EMI)**. Keep the console several feet away from computer monitors and TVs.

2. **Radio Frequency Interference (RFI).** If you have other 433 MHz devices and communication is intermittent, try turning off these other devices for troubleshooting purposes. You may need to relocate the transmitters or receivers to avoid intermittent communication.

3. **Line of Sight Rating.** This device is rated at 100m line of sight (no interference, barriers, or walls) but typically you will get 30m maximum under most real-world installations, which include passing through barriers or walls.

4. **Metal Barriers.** Radio frequency will not pass through metal barriers such as aluminium siding. If you have metal siding, align the remote and console through a window to get a clear line of sight.

The following is a table of reception loss vs. the transmission medium. Each “wall” or obstruction decreases the transmission range by the factor shown below.

Medium	**RF Signal Strength Reduction**
Glass (untreated)	5-15%
Plastics	10-15%
Wood	10-40%
Brick	10-40%
Concrete	40-80%
Metal	90-100%

4.4 Installation of Integrated Outdoor Transmitter

The DWS5100 can be used in both the Northern and Southern Hemispheres.

Prior to installation, you will need to calibrate the wind direction as shown below.

Northern Hemispheres (NOR)

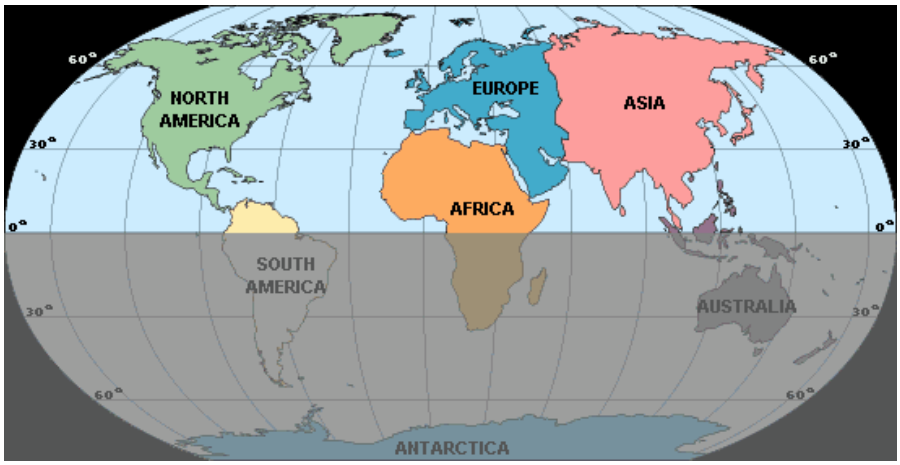
The cardinal directions (N, S, E, W) moulded on the body of the outdoor sensor are indicators for the Northern Hemisphere only.

Step 1: There is an “S” indicator on the wind vane that indicates South, as shown in Figure 14. Align this “S” marker in the direction of South.

Step 2: Console operation is set to Northern Hemispheres (**NOR** in the time area) in Location division.

Note: There are four letters of “N”, ”E”, ”S” and “W” around the wind direction, representing for the direction of North, East, South and West. The wind direction sensor has to be adjusted so that the directions on the sensor are matching with your real location. Permanent wind direction error will be introduced if the wind direction sensor is not positioned correctly during installation.

Northern Hemispheres



Southern Hemispheres

Figure 14

Southern Hemispheres (SOU)

For Southern Hemisphere installations, ignore these (N, S, E, W) and face **the solar panel to the North** (and in a sunny position) when it comes to installing the Integrated outdoor transmitter.

Step 1: Install the Integrated outdoor transmitter and face the solar panel North.

Step 2: Set the Console operation to Southern Hemispheres (**SOU** in the time area) in Location division.

Note: Permanent wind direction error of approximately 180º will occur if the wind direction sensor is not positioned correctly during installation.

Attach the integrated transmitter to mounting pole brackets, with two ¢3 bolts and M3 nuts, as shown in Figure 15.

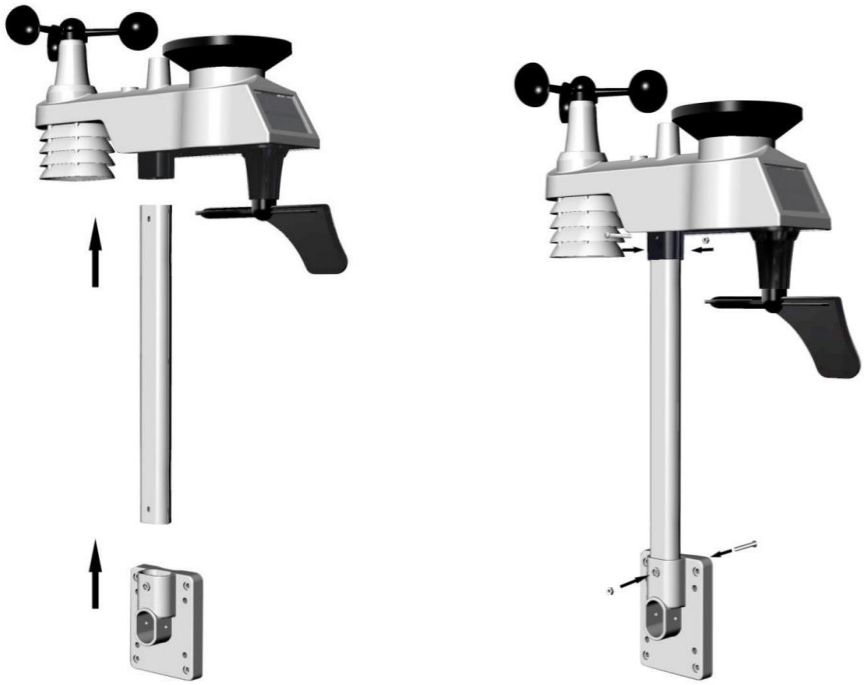
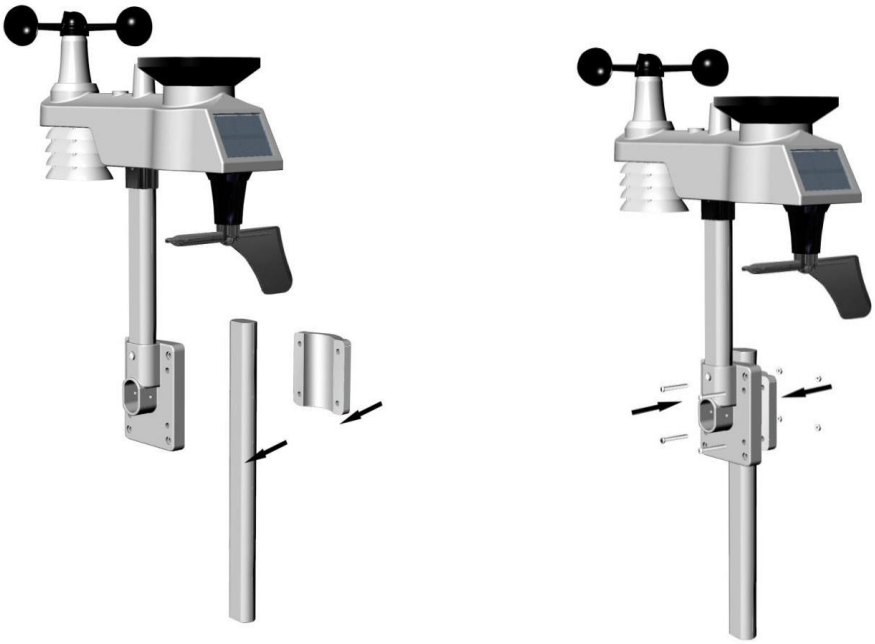


Figure 15

Attach the included mounting pole to your existing mounting pole with the four ¢ 5 bolts and M5 nuts assembly, or fix on the wall with four tapping screws, as shown in Figure16.



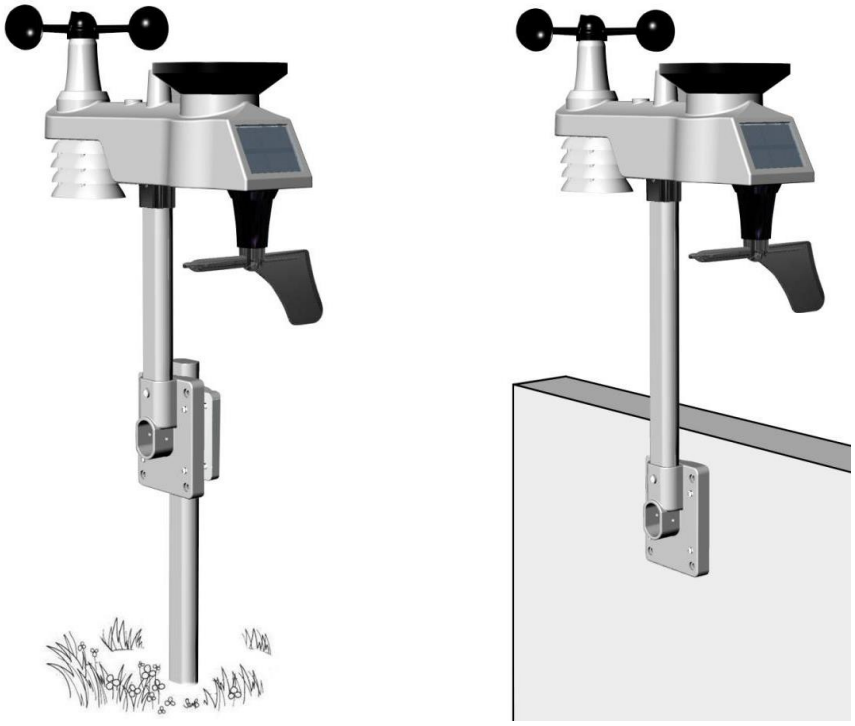


Figure 16

4.5 Low Battery Icon

A low battery indicator icon is shown in the display window of the Integrated outdoor transmitter. When the low battery icon appears (the battery voltage is lower than 3.6V), replace the batteries in the sensor with fresh batteries. Never mix old and new batteries, and never mix battery types such as alkaline and lithium together.

5. Display Console Operation

Note: The console has five buttons for easy operation: **SET** button and **ALARM** button on the right side, **MIN/MAX/-**button, **SNOOZE/LIGHT** and **CHANNEL**/+ **button on the top.**

5.1 Quick Display Mode

Note: To exit the Quick Display Mode at any time, press the **SNOOZE** button of the display console.

While in Normal Mode, press (do not hold) the **SET** button to enter the Quick Display Mode as follows:

- Once for time/second/date, time/week/date and time/week/year
- Twice for rainfall.
- Three for pressure
- Four for outdoor dew point temperature.

1. **Time, Time/Week and Date.** Press the **CHANNEL/+ or MIN/MAX/-** button to toggle between time/second/date, time/week/date and time/week/year.

2. **Rainfall.** Press the **CHANNEL/+** or **MIN/MAX/-** button to toggle between 1hr 24hr, week, month and total. To clear the total rain, press the **CHANNEL/+** or **MIN/MAX/-** button until total rain is displayed. The total rain will flash. Press and hold the **SET** button for three seconds until total rain reads 0.0.
3. **Absolute Pressure and Relative Pressure.** Press the **CHANNEL/+** or **MIN/MAX/-** button to toggle between absolute pressure and relative pressure.
4. **Outdoor Dew Point.** Press the **CHANNEL/+** or **MIN/MAX/-** button to toggle between temperature, dew point and 'feels like'.

5.2 Set (Program) Mode

While in Normal Mode, press **and hold** the **SET** button for at least three seconds to enter the Set Mode. The first setting will begin flashing. You can press the **SET** button again to skip any step, as outlined below.

Note: In the Set mode, press the [+] button or [**-**] button to change or scroll the value. Hold the [+] button or [**-**] button for three seconds to increase/decrease rapidly.

Note: To exit the Set mode at any time, press the **SNOOZE** button on the display console.

1. **12/24 Hour Format (default: 24h)**. Press the **SET** button again to adjust the 12/24-hour format setting (FMT). Press the [+] button or [**-**] button to change between 12 hour and 24-hour format.
2. **Change Hour.** Press the **SET** button again to set the hour. Press the [+] button or [-] button to adjust the hour up or down. Note the PM icon is present during afternoon hours.
3. **Change Minute.** Press the **SET** button again to set the minute. Press the [+] button or [-] button to adjust the minute up or down.
4. **Date Format (default: MM-DD): Press** the **SET** button again to enter the day/month format mode. Press the [+] button to switch between M-D and D-M.
5. **Change Month.** Press the **SET** button again to set the calendar month. Press the [+] button or [-] button to adjust the calendar month.
6. **Change Day.** Press the **SET** button again to set the calendar day. Press the [+] button or [**-**] button to adjust the calendar day.
7. **Change Year. Press** the **SET** button again to set the calendar year. Press the [+] button or [**-**] button to adjust the calendar year.
8. **Max/Min Clearing (default: ON)**. Press the **SET** button again to set the max/min clearing mode (CLR). The Max/Min data can be programmed to clear daily (at midnight) or manually. Press the [+] button or [-] button to switch between "Clears 24h" and Clears Manually.
9. **Temperature Units of Measure (default:** °C**):** Press the **SET** button again to change the temperature units of measure (the **UNITSET** icon will be displayed). Press the [+] button or [-] button to switch between °F and °C units of measure.
10. **Barometric Pressure Display Units (default: hPa)**. Press the **SET** button again to change the pressure units of measure. Press the [+] button or [-] button to toggle the pressure units between mmhg, inHg or hPa.
11. **Pressure Threshold Setting (default level 2).** Press the **SET** button again to change the pressure threshold. Press the [+] button or [-] button to change pressure threshold 2 mbar/hour to 4 mbar/hour. (For detailed information, refer to 'Pressure Threshold Setting' in section 9).
12. **Weather Forecast Icons Setting (default: partly cloudy). Press the SET button again to set the** weather forecast icon initial weather conditions (based on the current weather conditions). Press the [+] button or [**-**] button to toggle weather icons between Sunny, Partly Cloudy, Cloudy, or Rainy.
13. **Time SYNC (default: ON).** Press the **SET** button again to set the network time sync. Press the [+] button or [-] button to switch between SYNC time ON and SYNC time OFF.
14. **Location division. (default: Northern Hemisphere).** Press the **SET** button again to change the location division. Press the [+] button or [-] button to toggle the sunlight units Northern Hemisphere (NOR), or Southern Hemisphere (SOU). (Refer to section 4.4 Installation of Integrated Outdoor Transmitter).

5.3 Sensor Search Mode

If the outdoor sensor loses communication, dashes (--.-) will be displayed.

To reacquire the lost signal, press and hold the **CH/+** button for 3 seconds to enter the sensor search mode.

5.4 Reset Min/Max record

Note: The minimum and maximum value of all channels will be cleared in the reset mode.

In normal mode, Press (do not hold) the **MIN/MAX/-**button**,** and the **MAX** icon will be displayed. Press the **SET** button to view rainfall (1h, 24h, week or month), pressure (ABS or REL) max value, outdoor temperature (temperature, dew point or feels like).

Next, press and hold the **MIN/MAX/-** button for three seconds (and the **CLR** character is flashing in time area) to clear the rainfall, wind speed, wind gust, pressure, temperature, and humidity maximum values. The maximum values will now display the current values.

Press the **MIN/MAX/-** button again (do not hold), and the **MIN** icon will be displayed. Press the **SET** button to view pressure (ABS or REL) min value, pressure (ABS or REL) min value, outdoor temperature (temperature, dew point or feels like).

Next, Press and hold the **MIN/MAX/-** button for three seconds (and the **CLR** character is flashing in time area) to clear the pressure, temperature, and humidity minimum values. The minimum values will now display the current values.

Press the **SNOOZE** button to exit the min/max checking and clearing mode, return to normal display mode.

5.5 Snooze Mode

If the alarm sounds, and you wish to silence the alarm, press the **SNOOZE** button, the backlight will turn on. The alarm icon will continue to flash, and the alarm will silence for five minutes. press any button (**MIN/MAX/+, SET, ALARM, CHANNEL/+**) to permanently exit the Snooze mode.

5.6 Backlight Mode

If the LED is off, Press the **SNOOZE** button once. The backlight will turn on for five seconds, and if no operation is performed for three seconds, the backlight will turn off.

To save power, the backlight operation is different when operating on batteries.

ADJUSTABLE BACKLIGHT BRIGHTNESS

There are three levels of brightness of backlight. When the backlight is on, press **SNOOZE** button to switch between the three levels.

Press and hold the **LIGHT** button for two seconds, the backlight will turn on permanently, and the **BL ON** icon will be displayed for three seconds in the time area.

To turn off the backlight at any time press and hold the **SNOOZE/LIGHT** button for two seconds. **BL OFF** icon will be displayed for three seconds in the date field.

 **Note:** If plugged into AC power, the backlight will remain on. It is not recommended leaving the backlight on for a long period of time when operating on batteries only, or the batteries will run down quickly.

5.7 Alarm Mode

The DWS5100 includes the following alarms:

- Time (There are two alarms for time: Alarm 1 and Alarm 2)
- Wind Gust
- Wind Average
- Outdoor Temperature
- Outdoor Humidity
- Outdoor Feels Like Temperature
- Outdoor Dew Point
- Hourly Rainfall
- 24 Hour Rainfall
- Absolute Pressure
- Relative Pressure
- Indoor Temperature
- Indoor Humidity

Alarm Operation

When an alarm condition is exceeded, the alarm icon will flash (visual) and the alarm beeper will sound (audible). To silence the beeper, press any button.

Viewing the High and Low Alarms

To view the current alarm settings, press the **ALARM** button to enter the alarm mode. HI will be displayed in the time area. At the same time Alarm time parameters of out/indoor temperature/humidity, rain, feels like, wind gust, wind average, and dew point are displayed.

Press **ALARM** button again to view the LOW alarms along with the alarm clock time in the same way as with the HI alarms.

Press the **SNOOZE** button at any time to return to the normal mode.

Setting the Alarms

Press **ALARM** button to enter the alarm mode.

Next, press and hold the **SET** button for three seconds. The first alarm parameter will begin flashing (alarm hour).

To save the alarm setting and proceed to the next alarm parameter, Press (do not hold) the **SET** button.

To adjust the alarm parameter, press the [+] or [-] button to increase or decrease the alarm settings, or press and hold the [+] or [-] button for three seconds to increase or decrease the alarm settings rapidly.

Press the **ALARM** button (the alarm icon will appear) to turn the alarm on and off.

Press the **SNOOZE** button once at any time to return to the normal mode. After 30 seconds of inactivity, the alarm mode will time out and return to normal mode.

The following is a list of the individual alarm parameters that are set (in order):

1. Alarm hour (alarm 1)
2. Alarm minute (alarm 1)
3. Alarm hour (alarm 2)
4. Alarm minute (alarm 2)
5. Wind gust high alarm
6. Wind average high alarm
7. Outdoor temperature high alarm
8. Outdoor temperature low alarm
9. Outdoor humidity high alarm
10. Outdoor humidity low alarm
11. Outdoor feels like high alarm
12. Outdoor feels like low alarm
13. Outdoor dew point high alarm
14. Outdoor dew point low alarm
15. Rainfall (1hr) high alarm
16. Rainfall (24h) high alarm
17. Absolute pressure high alarm (ABS)
18. Absolute pressure low alarm (ABS)
19. Relative pressure high alarm (REL)
20. Relative pressure low alarm (REL)
21. Indoor temperature high alarm

22. Indoor temperature low alarm
23. Indoor humidity high alarm
24. Indoor humidity low alarm

Note: To prevent repetitive alarming of humidity, there is a 4% tolerance band. For example, if you set the high alarm to 60% and silence the alarm, the alarm icon will continue to flash until the humidity falls below 56%, at which point, the alarm will reset and must increase above 60% to activate again.

Alarm and Command Button Beeper ON/OFF Mode

The beeper can be silenced for both alarms and button presses.

In normal mode, press and hold the **ALARM** button for three seconds to toggle the beeper on or off (depending on the current setting).

The **BZ ON** (beeper on) or **BZ OFF** (beeper off) icon will appear in the time area for three seconds. press and hold the **ALARM** button again for three seconds to toggle the **BZ ON** or **BZ OFF** command.

5.8. Wi-Fi Connection Status

When the console successfully connects to your Wi-Fi router, the Wi-Fi signal icon 

will appear on the LCD display (to the left of Indoor Temperature). If the Wi-Fi signal is not stable or the console is trying to connect to the router, the icon will flash. If the icon disappears, it means the console is not connected to the Wi-Fi router.

Note: If you own a dual band router (2.4 GHz and 5.0 GHz), make sure you connect to the 2.4 GHz band, otherwise it will fail to connect the weather station to Wi-Fi.

5.9. Time Server Sync Status

After the 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 **SYNC** will appear on the LCD. The time will automatically synchronise to the internet each hour.

- **Note: Time synchronisation method: Synchronised through internet UTC time server.**

6. Registration with Weather Server Websites

6.1 Register with WeatherCloud.net

Note: This is best done on a desktop computer or laptop.

Visit https://weathercloud.net/ and enter a username, email address and password ***(This is your Login password for the website, not your email account password. So, no private information will be exposed)***.

Sign Up

1) Click Sign up as below

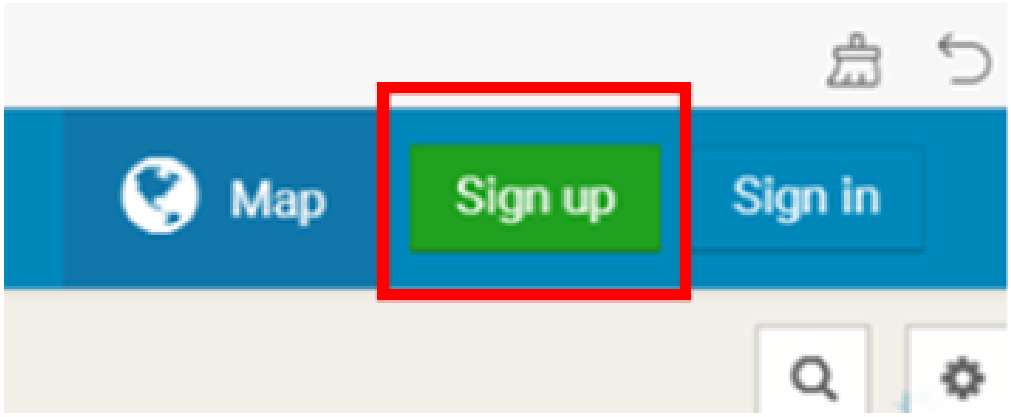


Figure 17

2) As shown below, enter a username, email address and create a password, then Click Sign up.

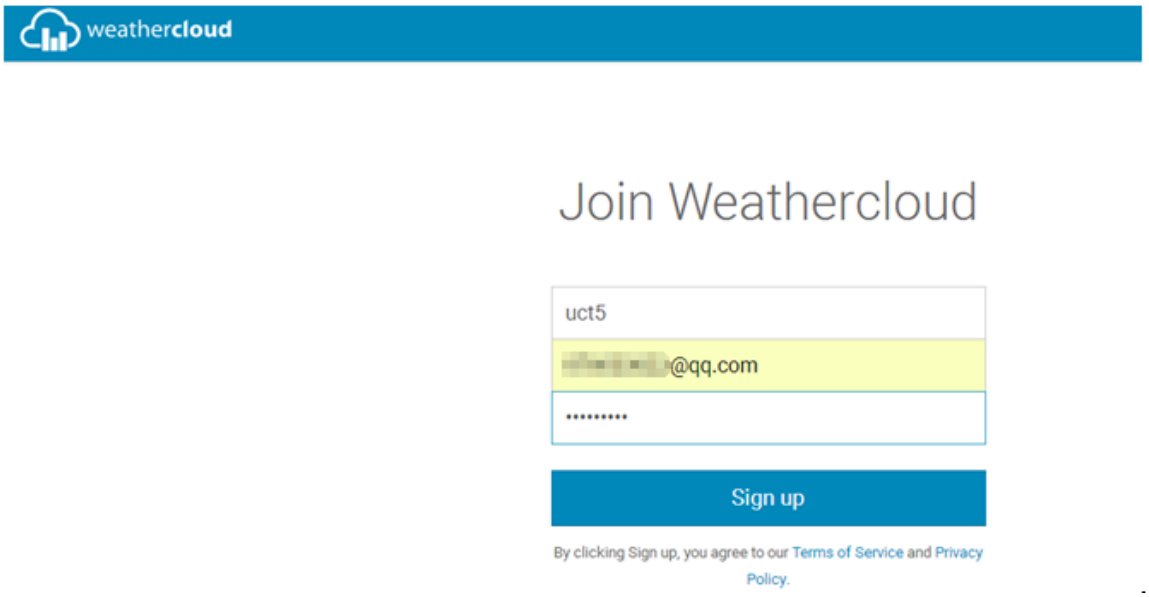


Figure 18

3) As shown below, an email will be received in your registered mailbox.

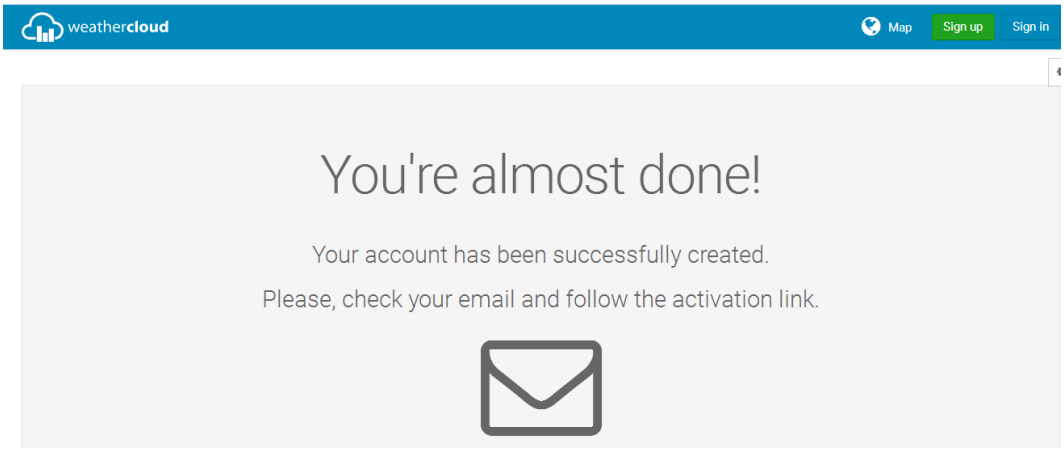


Figure 19

4) As shown below, go to your email inbox and log in to the web address in the email you will have received.

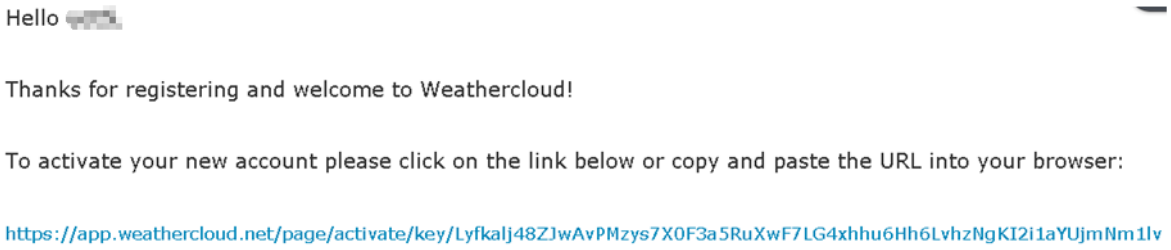


Figure 20

5) As shown below, click “here” to enter the homepage of the Weathercloud website.

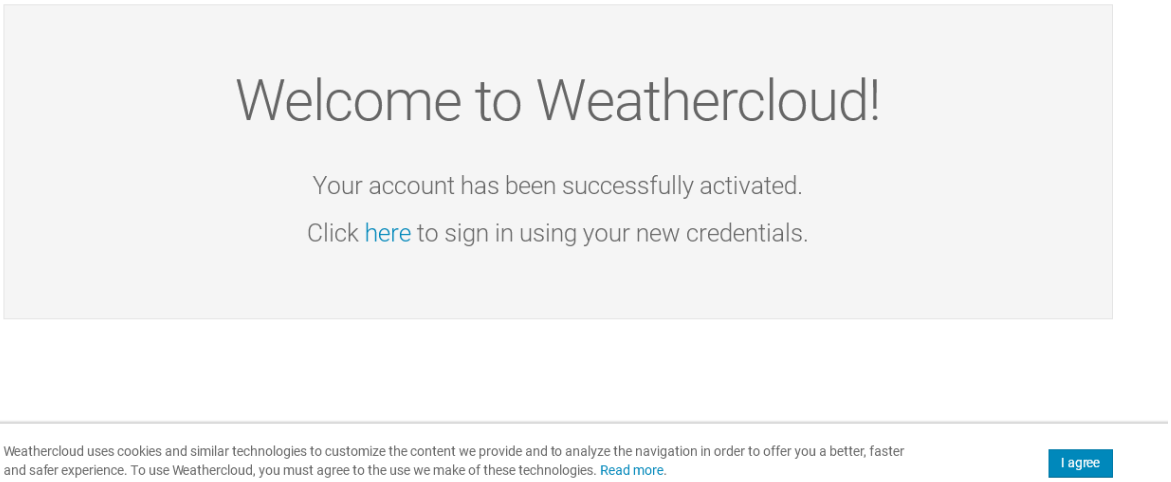


Figure 21

6) As shown below, enter the email address and password you just registered to enter the Weathercloud website.

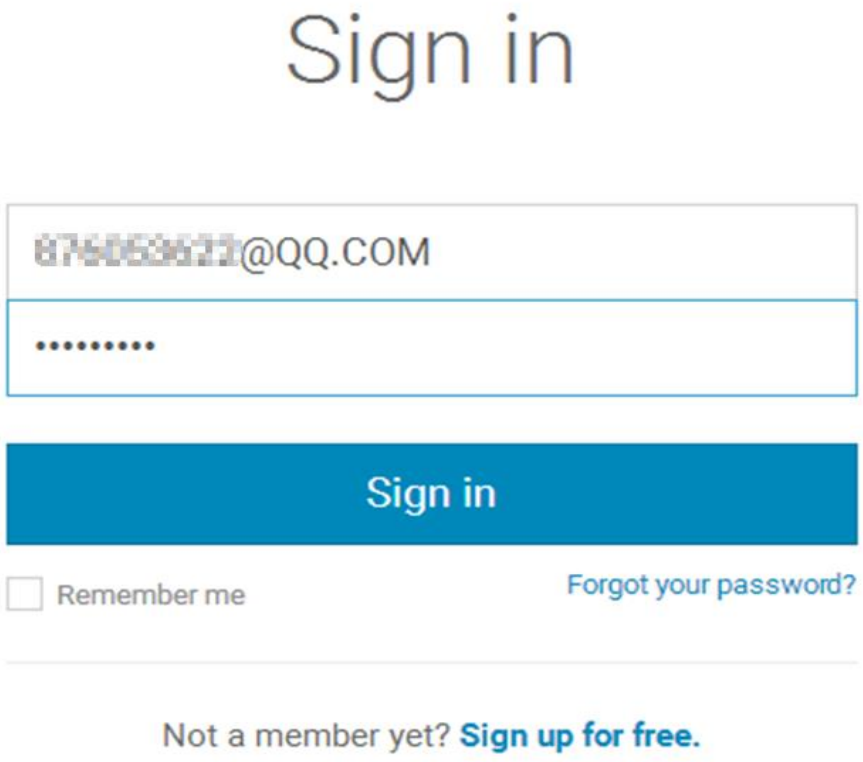


Figure 22

Add a weather station device (it may take a few minutes).

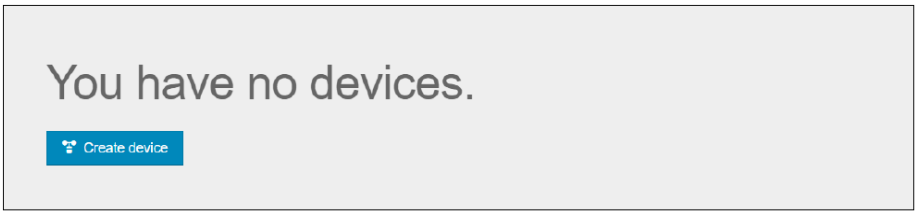


Figure 23

1) After signing up, you will be prompted to add a device/ Select “Create device” and enter your station’s information. You can select any Model number and Link type in the boxes.
Boxes with red * must be filled in.

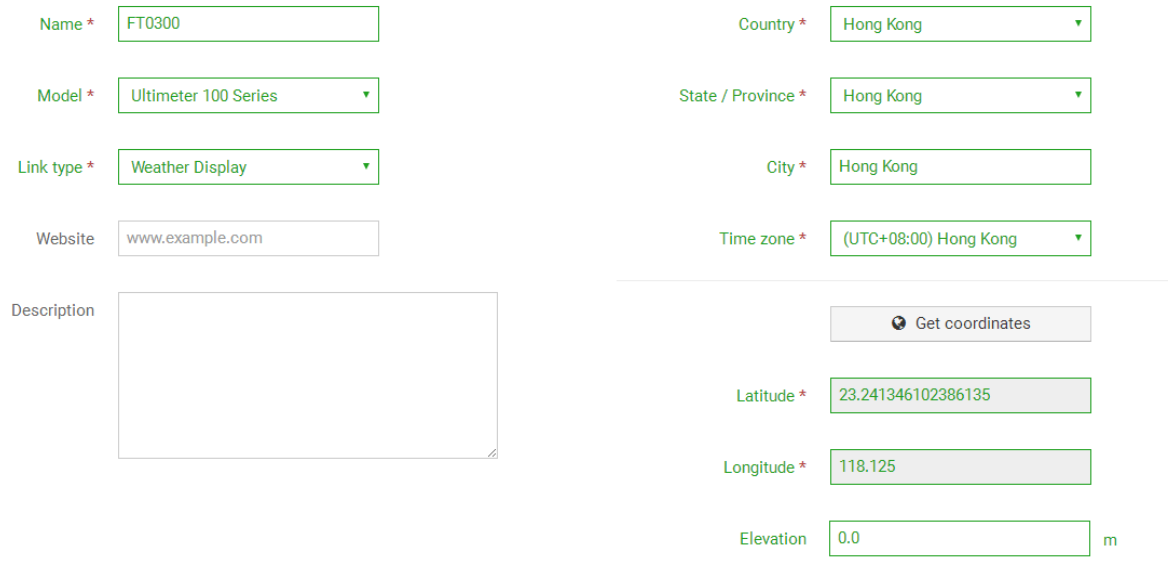


Figure 24

2) As shown below, click Get coordinates to identify your location of on the map, then click Done to confirm.

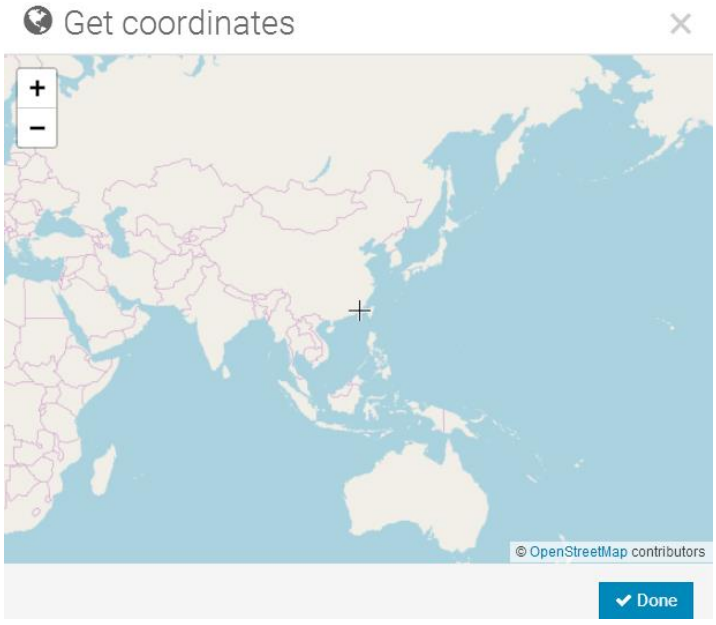


Figure 25

3) As shown below, click Create.

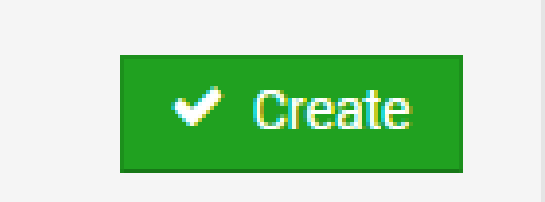


Figure 26

4) As shown below, after registering successfully, please record the Weathercloud ID and Key information for later use.

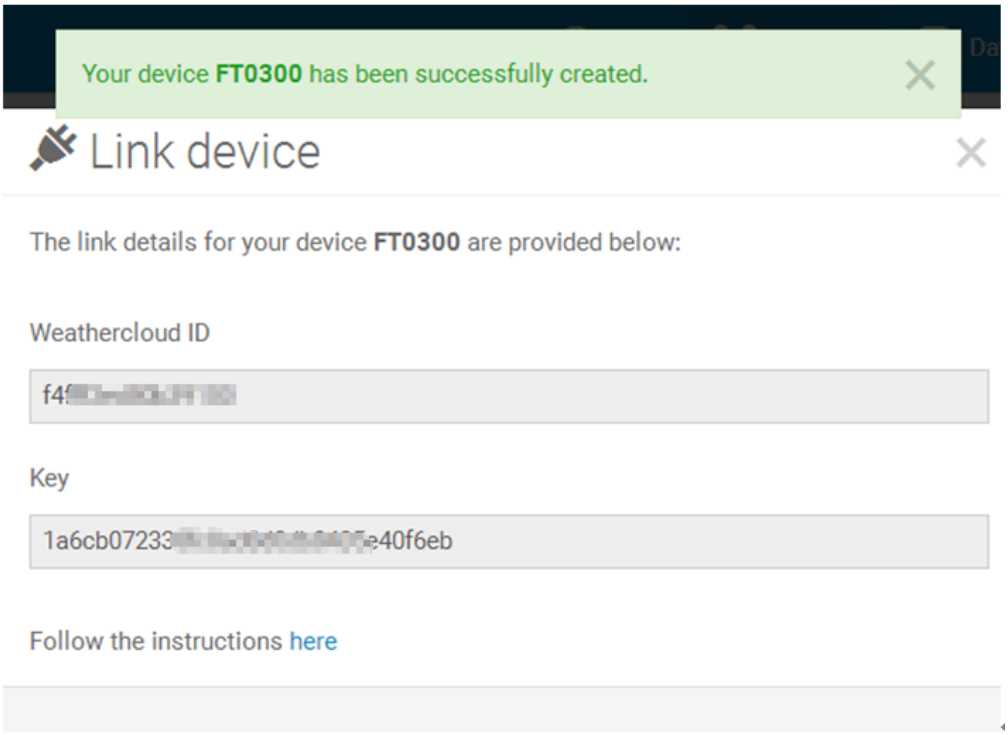


Figure 27

6.2 Register with Wunderground.com (Weather Underground)

Note: The Weather Underground website is subject to change.

Visit: https://Wunderground.com, and select the 'Join' link in the upper right and corner and create a Free Account.

1) As shown below, click 'Join'.

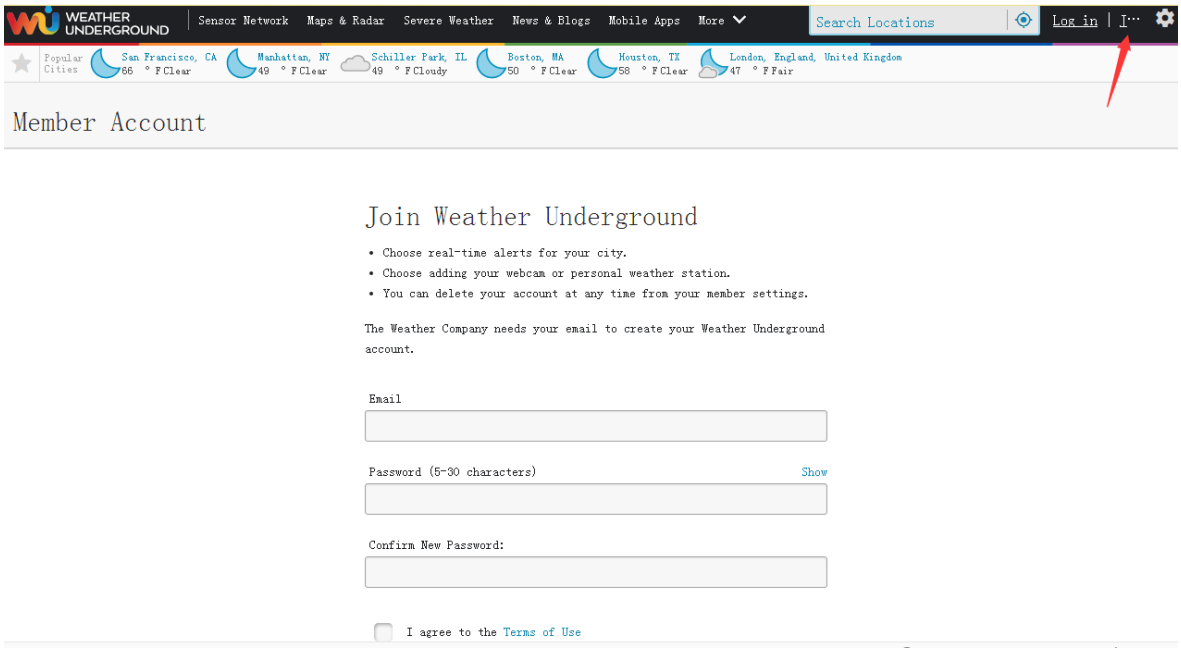


Figure 28

2) As shown below, enter a username, email address and a password ***(this is your Login password for the website, not your email password. So, no private information will be exposed)***. Click 'Sign up for free'.

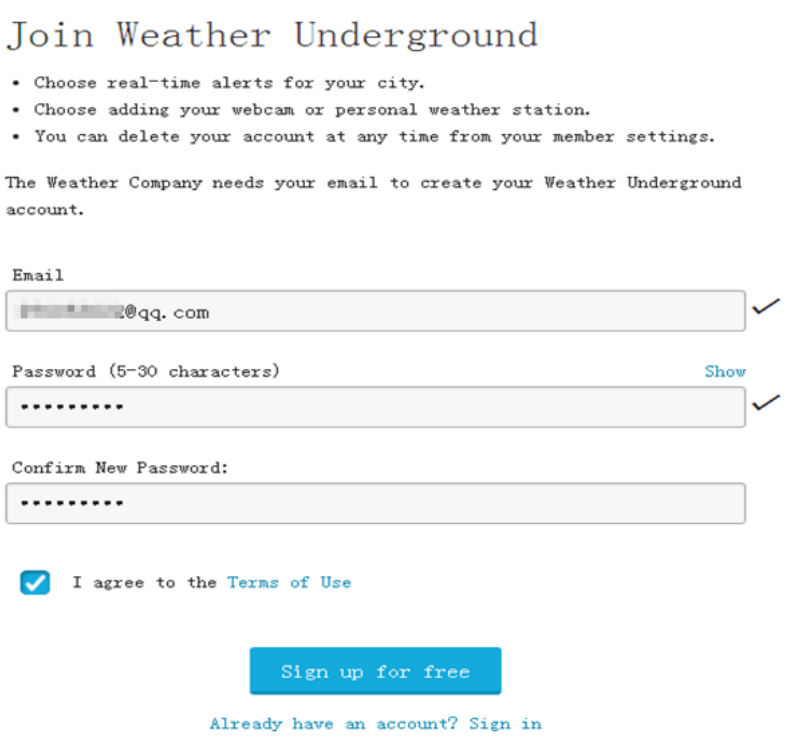


Figure 29

3) As shown below, registration has been successfully completed.

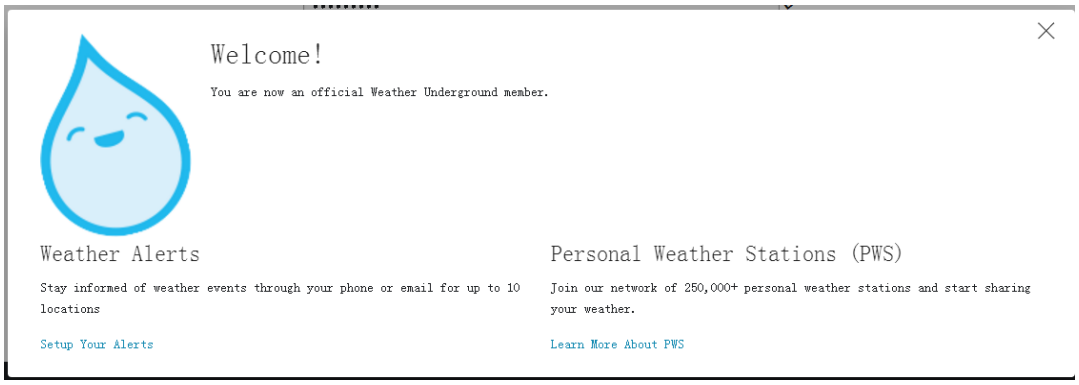


Figure 30

4) As shown below, click Log in and enter the email address and password you just registered.

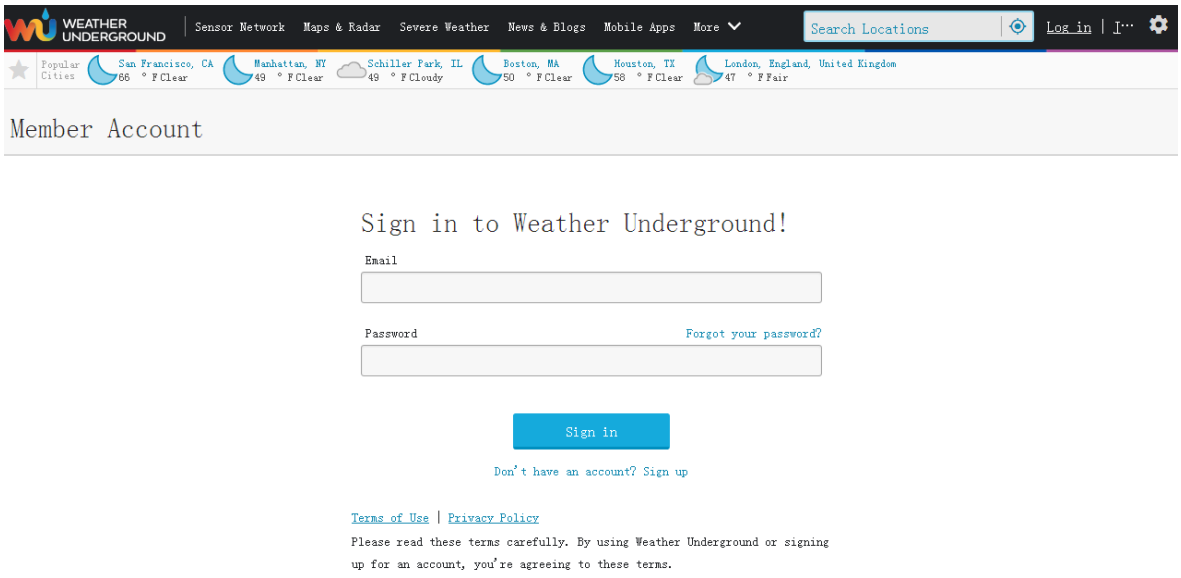


Figure 31

5) As shown below, click 'My Profile'. Then enter Member Settings.

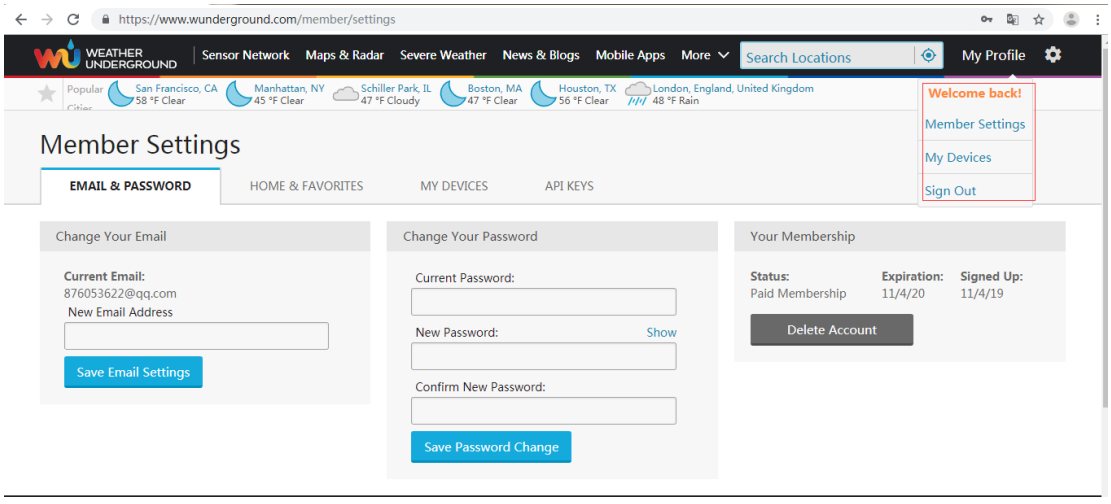


Figure 32

6) As shown below, click ‘Update home location’.

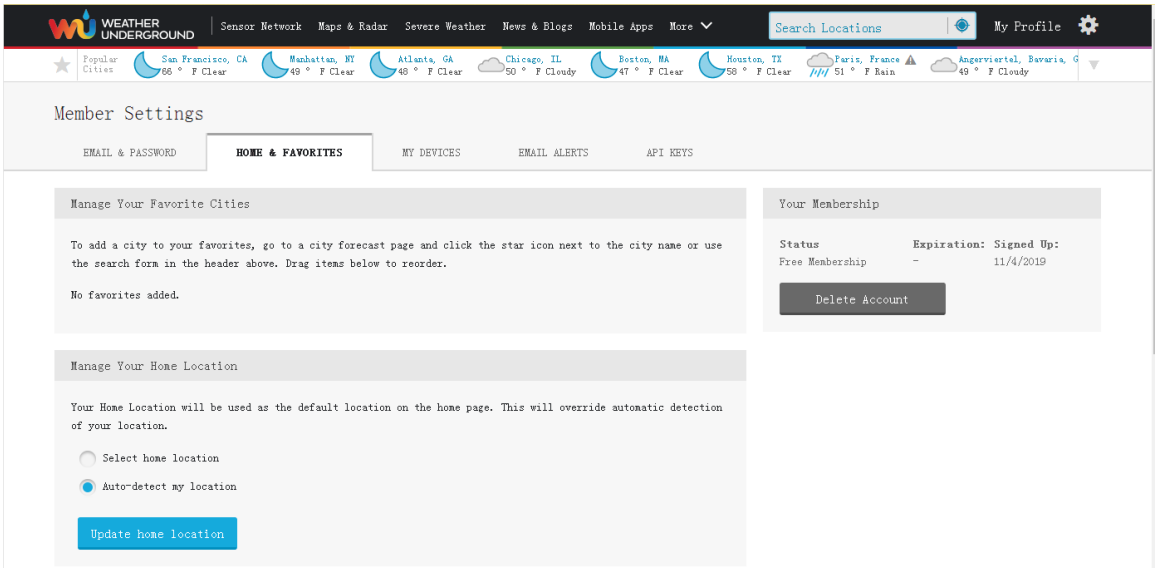


Figure 33

7) As shown below, you will then be prompted to add a device/ Select ‘Add New Device’

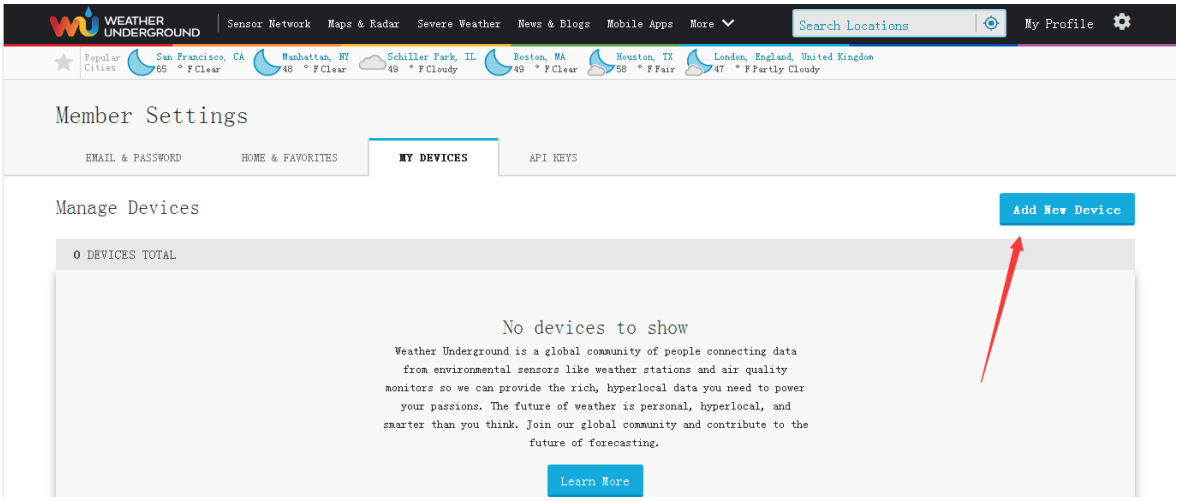


Figure 34

8) As shown below, click ‘Personal Weather Station’.

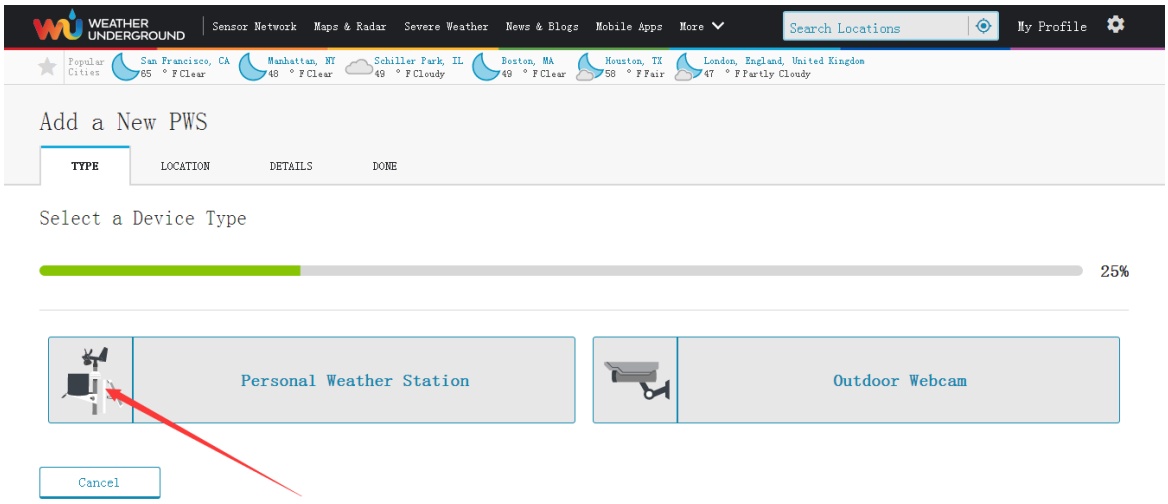
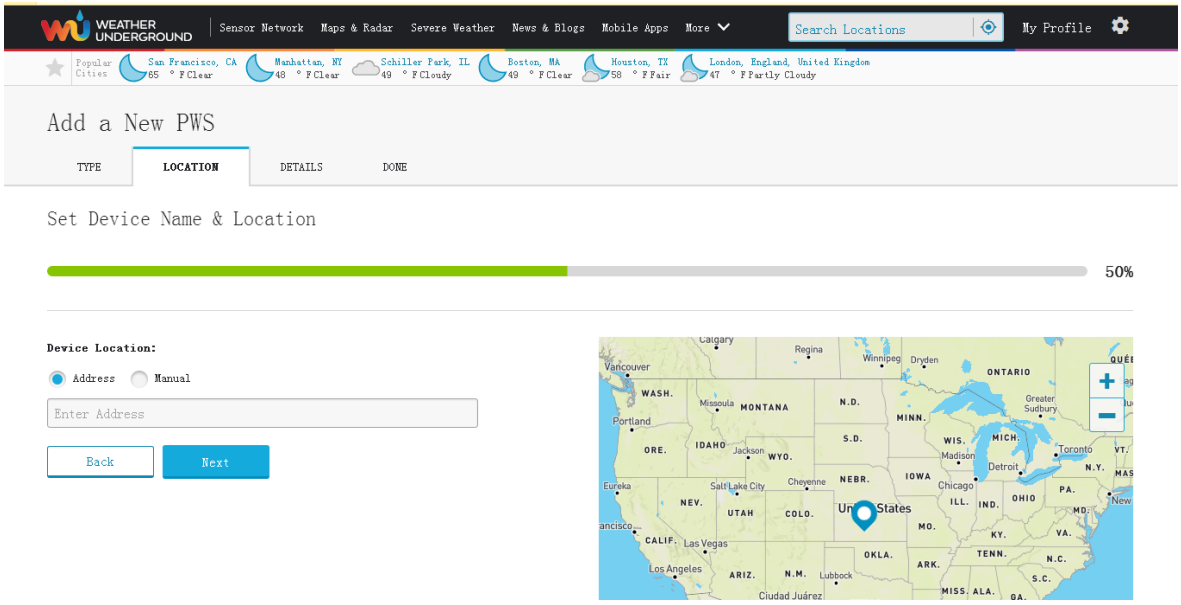


Figure 35

9) As shown below, select Address by inputting an address or select Manual to position your address automatically. Then click Next:



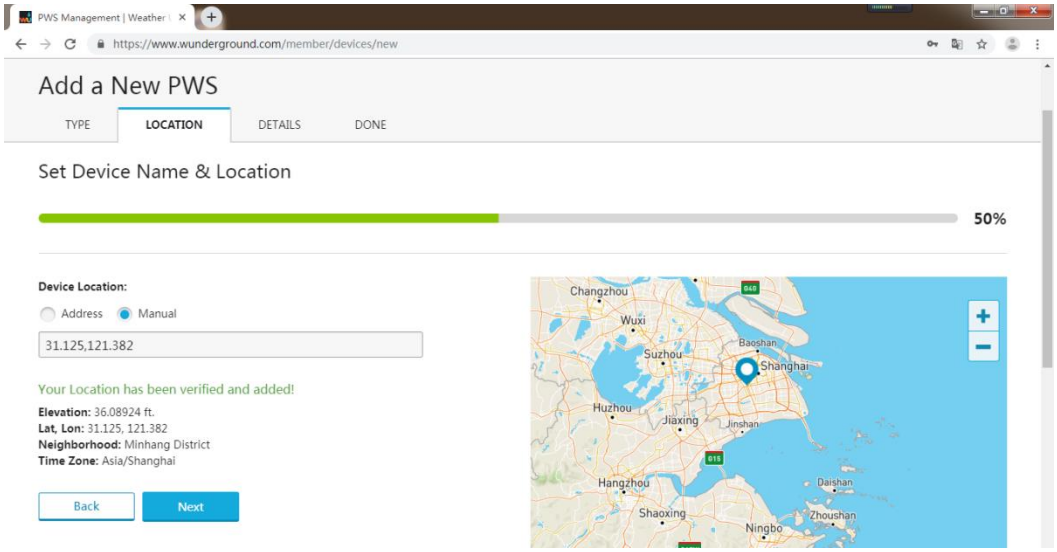
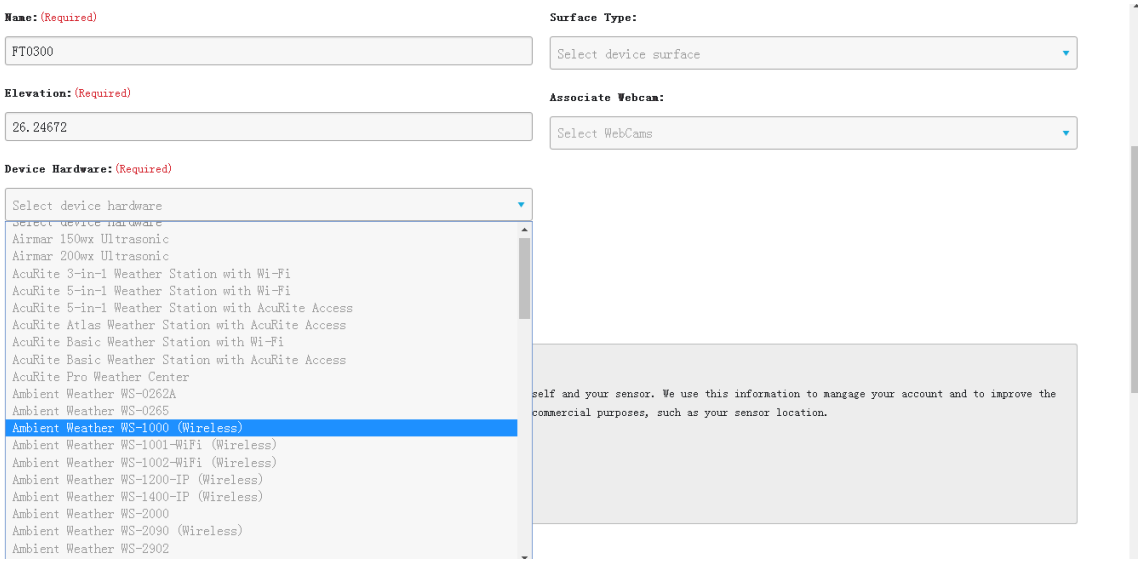


Figure 36

10) As shown below, you will then be prompted to add more information about your device. Complete the appropriate information then click ‘I Accept’ and ‘Next’:

Boxes with red (Required) must be filled in.

Note: You can select any Wi-Fi weather station model in the Device Hardware box; we recommend ‘AcuRite 5-in-1 Weather Station with Wi-Fi’.



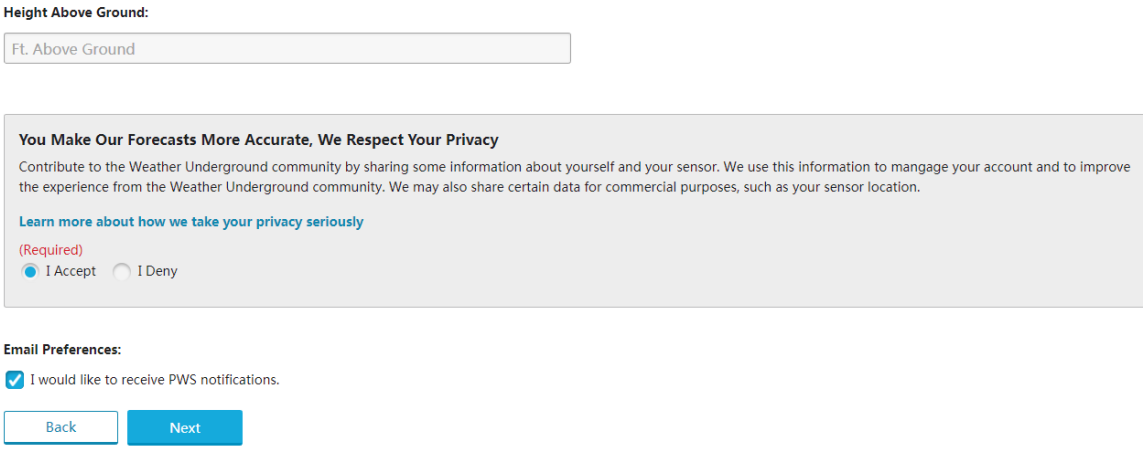


Figure 37

11) As shown below, after registering the host successfully, please record Station ID and Station Key information for use later. These details will be needed when you configure your console for Wi-Fi access.

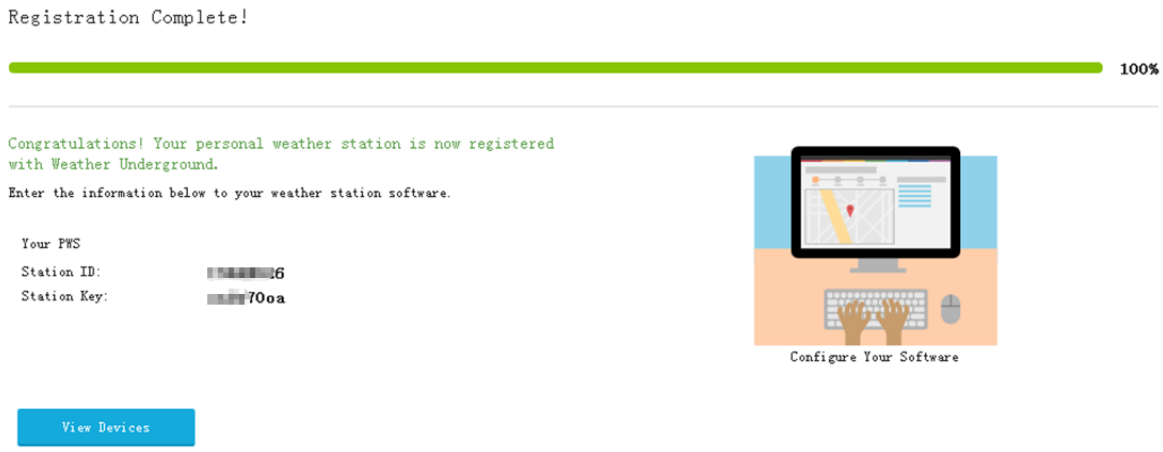


Figure 38

12) As shown below, registration is done successfully.

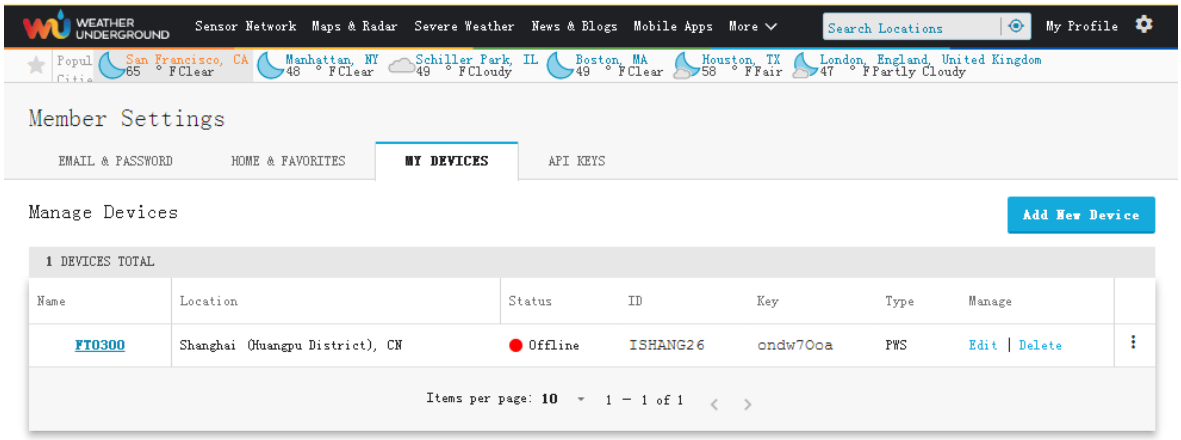


Figure 39

7. Wi-Fi Connection Setup

Note: If you own a dual band router (2.4 GHz and 5.0 GHz), make sure the 2.4 GHz band is enabled, otherwise it will fail to connect the weather station to Wi-Fi. You may need to check your router documentation regarding how to do this.

Note: **Wi-Fi connection requires the display console to use the power adaptor.**

Note: **You should ensure you have created an online account as described in section 6, as you will be asked for the login details during the Wi-Fi setup.**

ACCUR8 Weather Station Wi-Fi Connection Setup Instructions video

We have created a handy setup instructions video, which can be found on the Weather Shop YouTube channel. The QR code below links to it (you will need to use a device with a camera and QR code reader).

Setup Instructions

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

You can use a desktop computer, laptop, tablet, or smart phone to connect to the console's Wi-Fi. The console's network name begins with Accur8Cloud, followed by a unique code.

Note that when the console programming is complete, you will resume your default Wi-Fi connection.

Note that you cannot connect two or more devices at the same time in WAP mode.

To connect to the console Wi-Fi server with a PC

Choose Wi-Fi network settings from Windows (or search "Change Wi-Fi Settings" from Windows) and Connect to the Accur8Cloud------ Wi-Fi network, as shown in Figure 40 (your Wi-Fi network name may be slightly different but will always begin with Accur8Cloud).

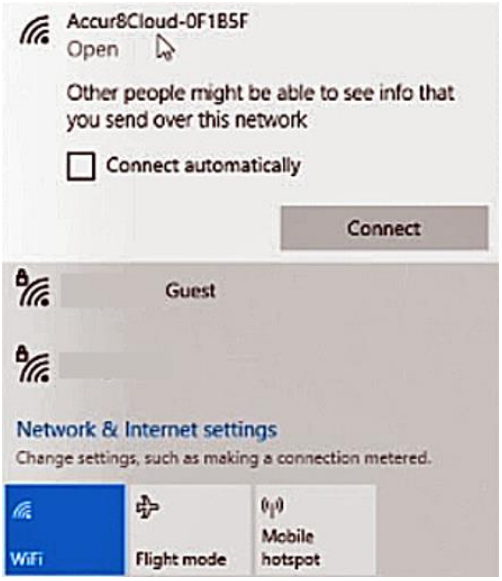


Figure 40

Once connected, enter the following IP address into any web browser: **http://192.168.5.1** to access the console's web interface.

Note: Some browsers will treat 192.168.5.1 as a search, so make sure you include the header http://, i.e.: http://192.168.5.1, not 192.168.5.1

Enter the following information into the web interface (Figure 41).

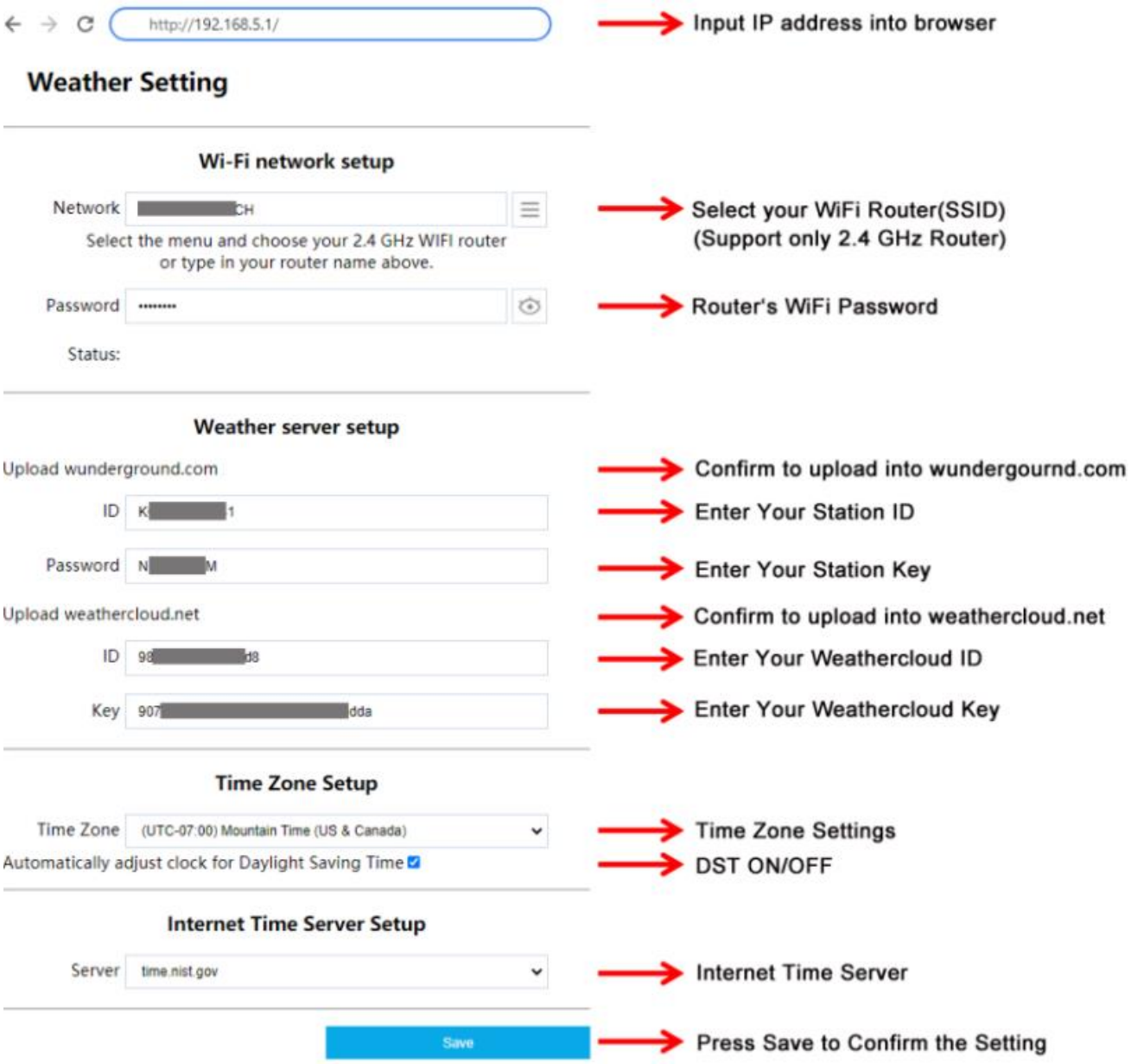


Figure 41

Note: Hidden SSIDs: If you have a hidden SSID, enter the SSID manually.

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 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	---
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

Hours from GMT	Time Zone	Cities
10	GST: Guam Standard	Sydney
11	---	Magadan
12	IDLE: International Date Line East NZST: New Zealand Standard	Wellington, New Zealand

If all of the information you entered is correct, press save to confirm (Figure 42). If it does not, check your web interface information again.

Figure 42

Once the setup is completed, disconnect your device from the console Wi-Fi. Otherwise, the console will automatically exit WAP mode. (Figure 43)

Figure 43

If the connection is successful, the Wi-Fi console's status Wi-Fi icon will stop flashing and remain on.

NOTE: When the console successfully connects to any weather server websites, the data signal icon will appear on the LCD display (In front of the Indoor Temperature). If the data signal icon is flashing, the 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.

7.1 Viewing your Data on Weather Underground

Visit: http://www.wunderground.com/personal-weather-station/dashboard?ID=STATIONID

where STATIONID is your personal station ID (example, KCALOSAN782).

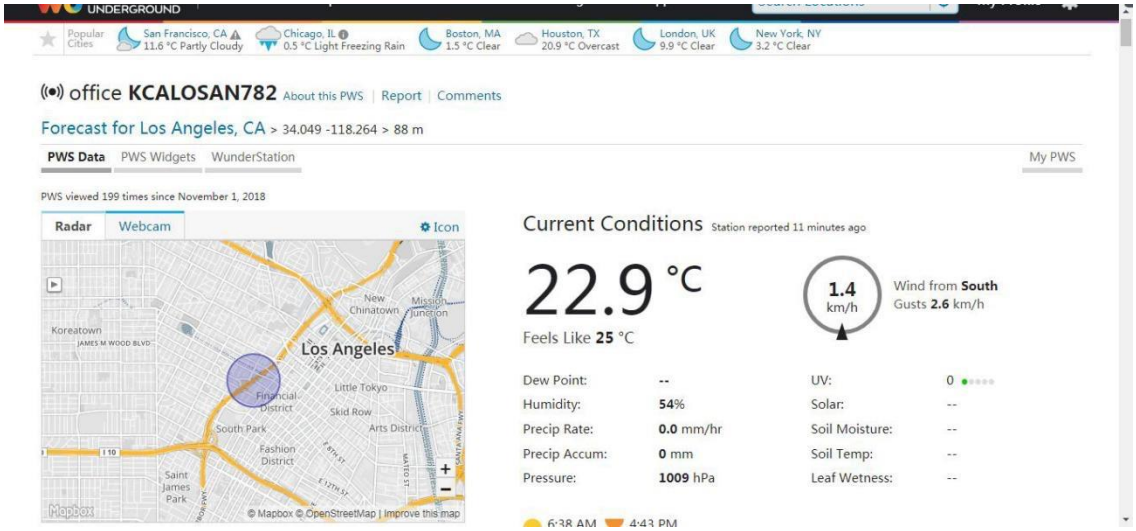


Figure 44

Note: The current temperature and humidity data is the Integrated Outdoor Transmitter.

7.2 View your data on Weathercloud.

Visit the website www.weathercloud.net and sign in with your email address and password. Then you will be automatically directed to the weather data of your weather station.

8. Upgrade firmware

You may get the latest firmware of the console as below.

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

Use your smart phone, tablet, or computer to connect to the console through Wi-Fi (see the Wi-Fi Setup section above).

Once connected, enter the following IP address into the browser's address bar:
http://192.168.5.1/upgrade.html

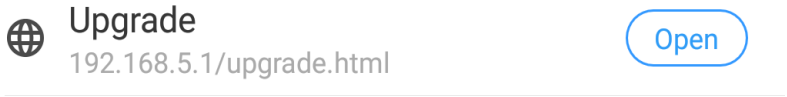


Figure 45

Once connection is successful, it will jump to the 'Upload Setting' screen automatically.

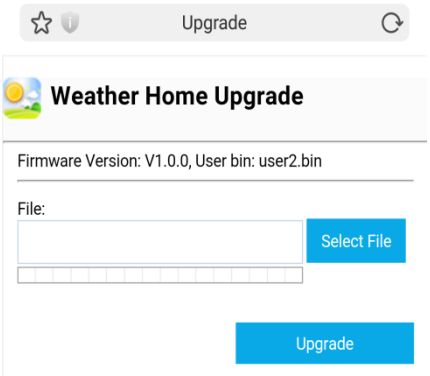


Figure 46

Press the Select File button to select the upgraded firmware as shown in figure 47 below.

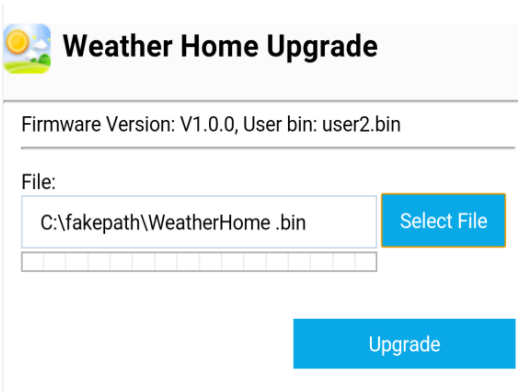


Figure 47

Press the Upgrade button. If the update was successful, then you will see as per figure 48 below.

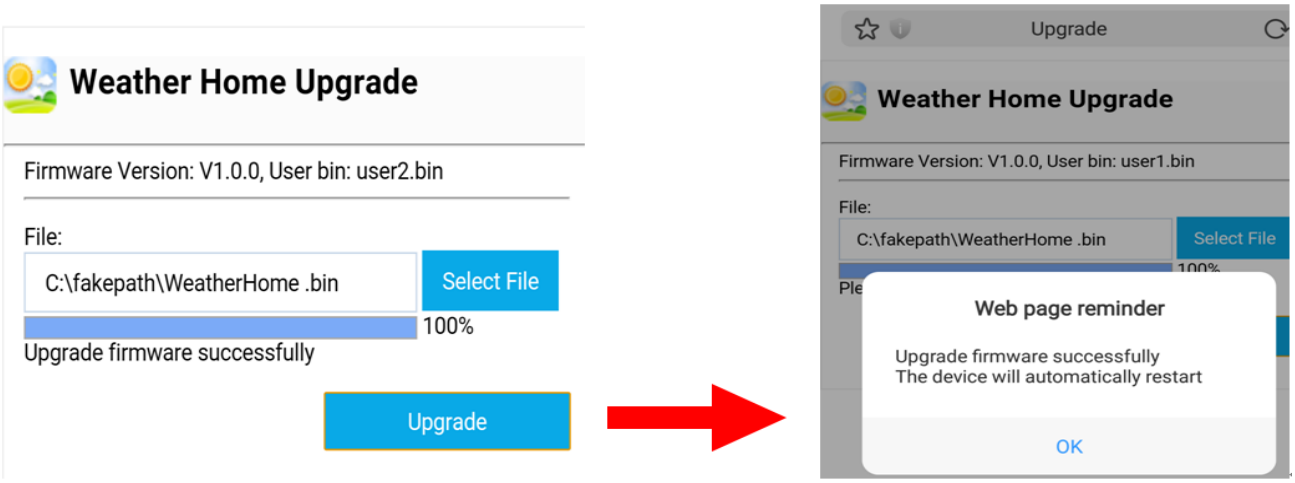


Figure 48

NOTE: In this upgrade, only Wi-Fi firmware is updated. The console does not reset.

Once the upgrade is completed, the console will automatically exit WAP mode.

9. Other Console Features

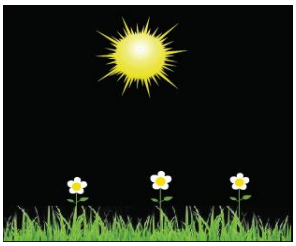
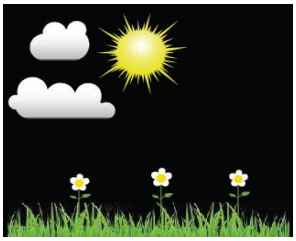
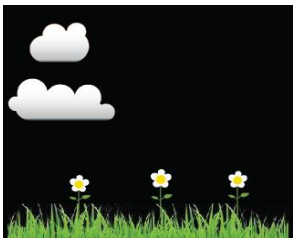
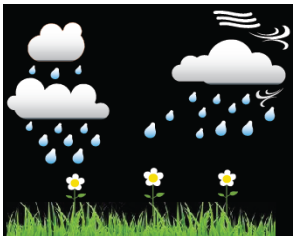
The following section describes additional features and display icons.

Weather Forecasting

Note: The weather forecast or pressure tendency is based on the rate of change of barometric pressure. In general, when the pressure increases, the weather improves (sunny to partly cloudy) and when the pressure decreases, the weather degrades (cloudy to rain).

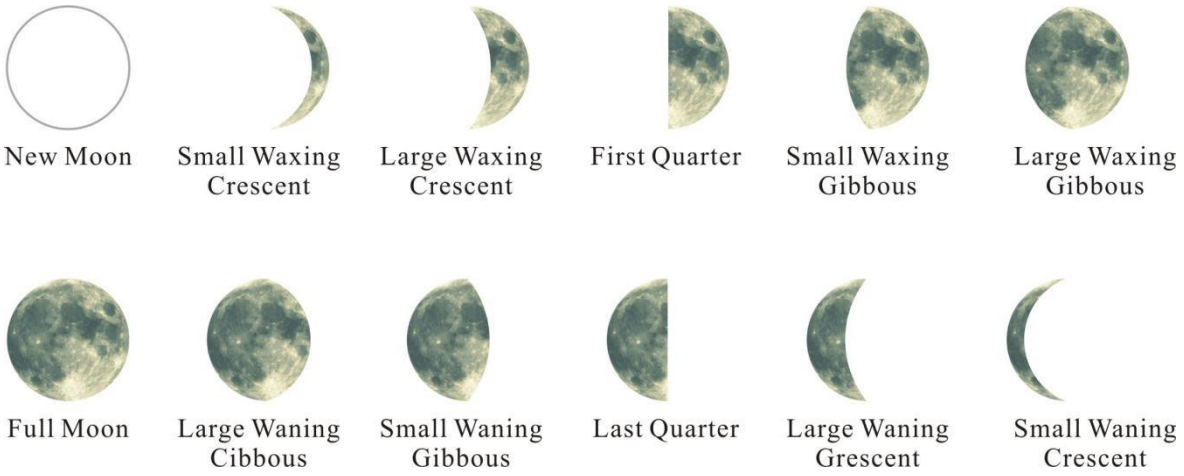
The weather forecast is an estimation or generalisation of weather changes in the next 24 to 48 hours and varies from location to location. The tendency is simply a tool for projecting weather conditions and is never to be relied upon as an accurate method to predict the weather.

Weather Icons

Condition	Icon	Description
Sunny		Pressure is rising and the previous condition is partly cloudy.
Partly Cloudy		Pressure is falling and the previous condition is sunny or Pressure is rising and the previous condition is cloudy.
Cloudy		Pressure is falling and the previous condition is partly cloudy or Pressure is rising and the previous condition is rainy.
Rainy		Pressure is falling and the previous condition is cloudy.

Moon Phase

The following moon phases are displayed, based on the calendar date.



Pressure Threshold Setting

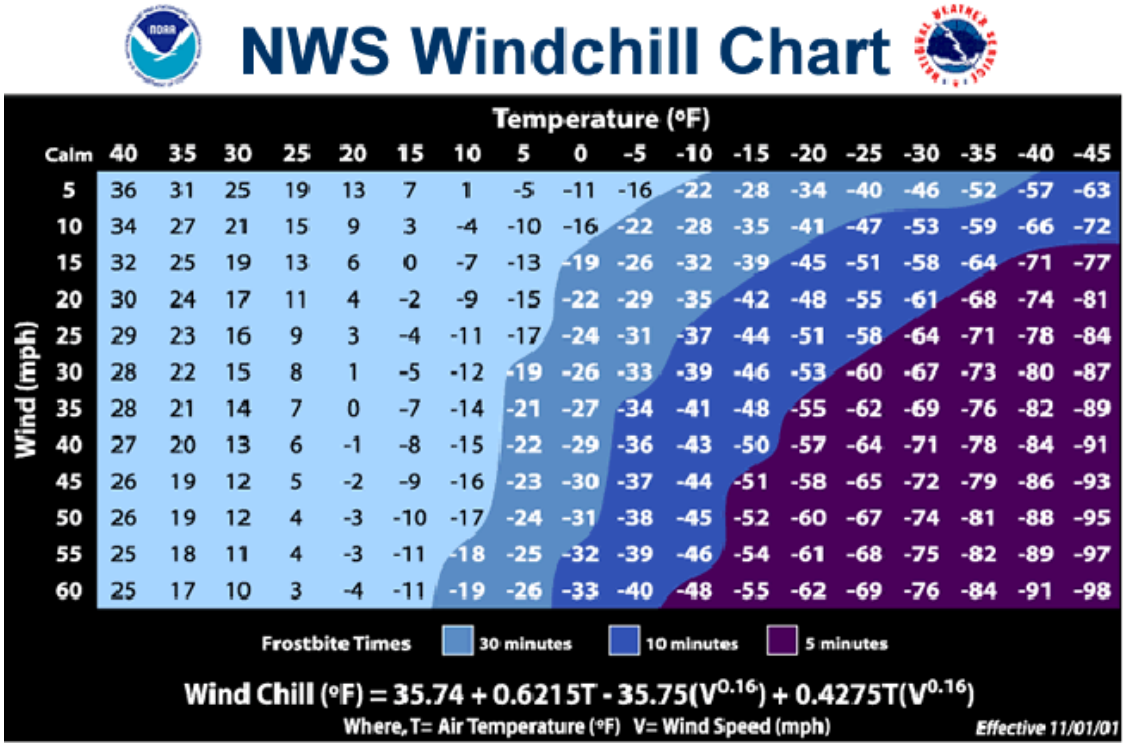
The pressure threshold (the negative or positive rate of change of pressure signifying a change in the weather) can be adjusted from 2 mbar/hour to 4 mbar/hour (default level 2 mbar/hour).

The lower the level pressure threshold setting, the higher sensitivity for weather forecast changes. Locations that experience frequent changes in air pressure require a higher setting compared to locations where the air pressure is typically stagnant.

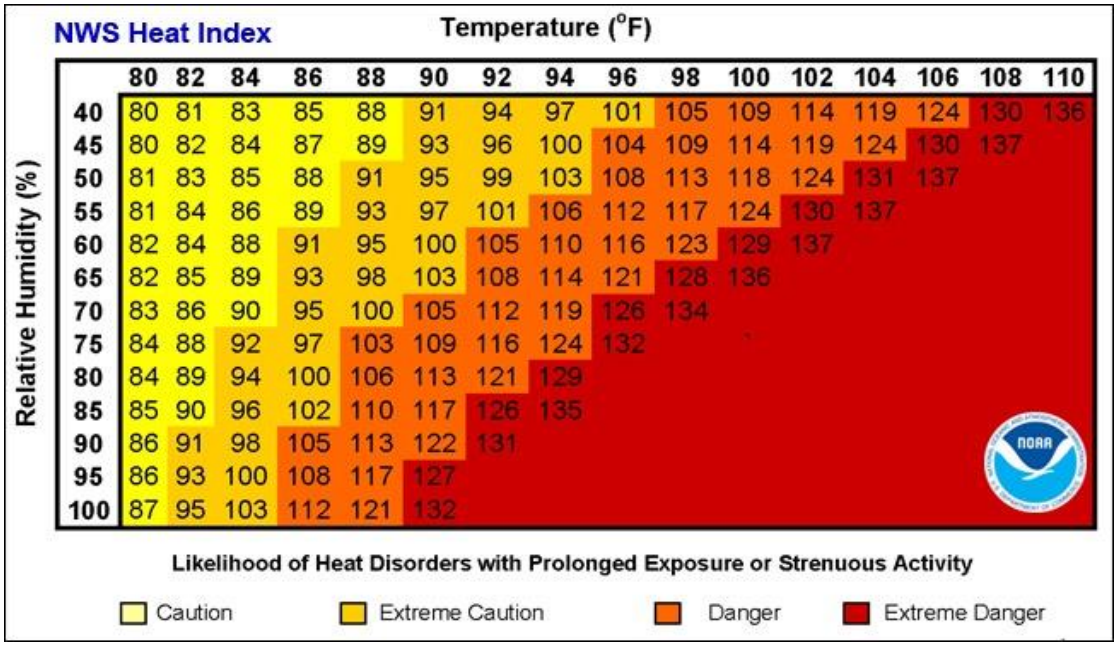
'Feels Like' Temperature

'Feels like' temperature is a combination of Heat Index and Wind Chill.

At temperatures less than 4.4°C (40°F), the wind chill is displayed, as shown in the National Weather Service Wind Chill Table below:



At temperatures greater than 26.7°C (80°F), the heat index is displayed, as shown in the National Weather Service Heat Index Table below:



When the temperature is between 4.4°C (40°F) and 26.7°C (80°F), the OUT temperature is displayed (‘Feels Like’ temperature is the same as OUT temperature).

10. Specifications

10.1 Wireless Specifications

- Line of sight wireless transmission (in open air): 100m
- Frequency: 433 MHz
- Integrated Outdoor Transmitter interval: 16 seconds.

10.2 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	**Range**	**Accuracy**	**Resolution**
Indoor Temperature	0 to 60 °C	± 1 °C	0.1 °C
Outdoor Temperature	-40 to 60 °C	± 1 °C	0.1 °C
Indoor Humidity	10 to 99 %	± 5% (only guaranteed between 20 to 90%)	1 %
Outdoor Humidity	10 to 99%	± 5% (only guaranteed between 20 to 90%)	1 %
Rain	0 to 9999mm	<15mm**:** ±1 mm, 15mm to 9999mm**:** ±7%	<1000mm (0.3mm) >1000mm (1mm)
Wind Direction	0 - 360 º	45º (8 point compass)	45º (8 point compass)
Wind Speed (averaged over 16 seconds)	0 to 50 m/s	2 m/s ~10 m/s**:** ±0.3m/s, 10m/s ~50 m/s**:** ±10% (whichever is greater)	0.1 m/s
Barometric Pressure:	300 to 1100 hpa	± 3 hpa	0.1 hpa

10.3 Power Consumption

- Base station (display console): 3 x AAA 1.5V alkaline or lithium batteries (not included)
- Adaptor: 6V~ 500mA (included)
- Integrated Outdoor Transmitter: 3 x AA alkaline or lithium batteries (not included)
- Battery life: Typically at least 12 months for base station with excellent reception. Intermittent reception may reduce the battery life.
  Typically at least 12 months for Integrated Outdoor Transmitter (use lithium batteries in cold weather

climates less than -20 °C). The primary power source is the solar panel. The batteries provide backup power when there is limited solar energy.

10.4 Wi-Fi Specifications

- Wi-Fi Standard: 802.11 b/g/n
- Wi-Fi Console RF Frequency: 2.4 GHz
- Recommended device to support setup: Smart device with built-in Wi-Fi with WAP mode, including laptops, computers, smart phones and smart pads.
- Recommended web browser for setup: Web browser which supports of HTML 5, such as the latest versions of Chrome, Safari, IE, Edge, Firefox or Opera.
- Line of sight Wi-Fi RF transmission (in open air): 20 metres (80 feet).

11. Maintenance

Clean the rain gauge of the Integrated Outdoor Transmitter once every 3 months.

- Unscrew the rain collector funnel by turning it 30°counterclockwise.
- Gently remove the rain collector funnel.
- Clean and remove any debris or insects.
- Re-install the collector funnel after it has been cleaned and completely dried.

Figure 49

Replace the Integrated Outdoor Transmitter batteries every 1-2 years.

12. Troubleshooting Guide

Problem	**Solution**
Wireless sensor not reporting into console. There are dashes (--.-) on the display console.	If signal from the transmitter is lost, dashes (--.-) will be displayed on the screen. To reacquire the signal, press and hold the **CHANNEL/+** button for 3 seconds, choose the lost sensor and the remote search icon will be constantly displayed. Once the signal is reacquired, the remote search icon will turn off, and the current values will be displayed. The maximum line of sight communication range is 100m and 30m under most conditions. Move the sensor assembly closer to the display console. If the sensor assembly is too close (less than 1.5m), move the sensor assembly away from the display console. Make sure the transmitter light is flashing once per 60 seconds. Install a fresh set of batteries in the transmitter. For cold weather environments, install lithium batteries. Make sure the transmitter is not transmitting through solid metal (acts as an RF shield), or earth barrier (down a hill). Move the display console away from electrical noise generating devices, such as computers, TVs and other wireless transmitters or receivers. Move the remote sensor to a higher location. Move the sensor to a closer location.
Indoor and Outdoor Temperature do not agree	Allow up to one hour for the sensors to stabilise due to signal filtering. The indoor and outdoor temperature sensors should agree within 2 °C (the sensor accuracy is ± 1 °C). Use the calibration feature to match the indoor and outdoor temperature to a known source.

Problem	**Solution**
Indoor and Outdoor Humidity do not agree	Allow up to one hour for the sensors to stabilise due to signal filtering. The indoor and outdoor humidity sensors should agree within 10 % (the sensor accuracy is ± 5 %). Use the calibration feature to match the indoor and outdoor humidity to a known source.
Display console contrast is weak	Replace console batteries with a fresh set of batteries.
Wi-Fi does not display on console.	Check your router for problems. 1. Check Wi-Fi symbol on the display. If wireless connectivity is successful, the Wi-Fi icon  will be displayed in the time field. 2. Make sure your modem Wi-Fi settings are correct (network name, and password). 3. Make sure the console is plugged into AC power. The console will not connect to Wi-Fi when powered by batteries only. 4. The console only supports and connects to 2.4 GHz routers. If you own a 5 GHz router, and it is a dual band router, you will need to disable the 5 GHz band, and enable the 2.4 GHz band. 5. The console does not support guest networks.

Problem	Solution
Data not reporting to www.wunderground.com or www.weathercloud.net	1. Confirm your password or key is correct. It is the password you registered on Wunderground.com. 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. 2. Confirm your station ID is correct. 3. Make sure the date and time is correct on the console. If incorrect, you may be reporting old data, not real time data. 4. Make sure your time zone is set properly. If incorrect, you may be reporting old data, not real time data. 5. Check your router firewall settings. The console sends data via Port 80.

13. Adjustment or Calibration

The purpose of calibration is to fine-tune or correct for any sensor error associated with the device's margin of error. The measurement can be adjusted from the console to calibrate to a known source.

Calibration is only useful if you have a known calibrated source you can compare it against, and is optional. This section discusses practices, procedures, and sources for sensor calibration to reduce manufacturing and degradation errors. Do not compare your readings obtained from sources such as the internet, radio, television, or newspapers. They are in a different location and typically update once per hour.

The purpose of your weather station is to measure the conditions of your surroundings, which vary significantly from location to location.

Note: The calibrated value can only be adjusted on the console. The remote sensor(s) always displays the un-calibrated or measured value.

Note: The measured humidity range is between 10 and 99%. Humidity cannot be accurately measured outside of this range. Thus, the humidity cannot be calibrated below 10% or above 99%.

1. Temperature Calibration

In normal mode, press and hold the **SET** and **CHANNEL/+** buttons at the same time for five seconds to enter the temperature calibration mode. The indoor temperature will begin flashing.

Press the **[+]** or **[-]** button to increase or decrease the temperature reading (in increments of 0.1). Press and hold the **[+]** or **[-]** button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset to the current value.

Press the **SET** button to switch between indoor, outdoor and temperature channels 1 through 8. To exit the calibration mode at any time, press the **SNOOZE/LIGHT** button on the top of the display console. If no operation is performed, the calibration mode will timeout in 30 seconds.

2. Humidity Calibration

In normal mode, press and hold the **SET** and **MIN/MAX/-** buttons at the same time for five seconds to enter the humidity calibration mode. The indoor humidity will begin flashing.

Press the **[+]** or **[-]** button to increase or decrease the humidity reading (in increments of 1%). Press and hold the **[+]** or **[-]** button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset current value.

Press the **SET** button switch to indoor, outdoor and humidity channels 1 through 8. To exit the calibration mode at any time, press the **SNOOZE/LIGHT** button on the top of the display console. If no operation is performed, the calibration mode will timeout in 30 seconds.

 **Note:** Humidity is a difficult parameter to measure accurately and drifts over time. The calibration feature allows you to zero out this error. To calibrate humidity, you will need an accurate source, such as a sling psychrometer or Humidipaks One Step Calibration kit.

3. Absolute and Relative Barometer, Wind and Rain Calibration

1. Quick Reference Guide

Command	Mode	Default	Settings
[SET] + [ALARM] + 3 seconds	Absolute Barometer Offset	0.00	Press **[+]** or **[-]** to adjust the absolute pressure up or down. **Note** that you normally not calibrate absolute pressure unless you have a specific application example, measuring air density.
[SET]	Relative Barometer Offset	0.00	Press **[+]** or **[-]** to adjust the relative pressure offset up or down. See discussion below on how to calibrate relative pressure based on conditions at a local airport.
[SET]	Wind Gain	1.00	Press **[+]** button or **[-]** to adjust the wind gain up or down.
[SET]	Rain Gain	1.00	Press **[+]** button or **[-]** to adjust the rain gain up or down.
[SET]	Sunlight	1.00	Press **[+]** button or **[-]** to adjust the rain gain up or down.
[SET]	Exit Calibration Mode		

2. Step by Step Guide

In normal mode, press and hold the **SET** and **ALARM** buttons at the same time for five seconds to enter the barometer, wind speed, rainfall, and calibration mode. To skip over a parameter, press (do not hold) the SET button. The word CAL will appear at the top of the screen.

1. Absolute Pressure Calibration

The absolute pressure offset will begin flashing. The default offset is 0.00 inHg.

Press the **[+]** or **[-]** button to increase or decrease the absolute pressure offset.

Press and hold the [+] or [-] button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset the current value.

Example: The calibrated pressure source measures 28.00 inHg. The display absolute pressure reads 28.83 inHg on the console.

Offset = 28.00 – 28.83 = 0.83 inHg.

2. Relative Pressure Calibration

Press the **SET** button and the relative pressure offset will flash. The default is 0.00 inHg.

Press the **[+]** or **[-]** button to increase or decrease the relative pressure offset.

Press and hold the [+] or [-] button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset the current value.

Example: The local official barometer measures 30.00 inHg. The display absolute pressure reads 29.92 inHg on the console.

Offset = 30.00 – 29.92 = 0.08 inHg.

Note: The display console displays two different pressures: absolute (measured) and relative (corrected to sea-level).

To compare pressure conditions from one location to another, meteorologists correct pressure to sea-level conditions. Because the air pressure decreases as you rise in altitude, the sea-level corrected pressure (the pressure your location would be at if located at sea-level) is generally higher than your measured pressure.

Thus, your absolute pressure may read 28.62 inHg (969 mb) at an altitude of 1000 feet (305 m), but the relative pressure is 30.00 inHg (1016 mb).

The standard sea-level pressure is 29.92 in Hg (1013.2hpa). This is the average sea-level pressure around the world. Relative pressure measurements greater than 29.92 inHg (1013.2hpa) are considered high pressure and relative pressure measurements less than 29.92 inHg are considered low pressure.

To determine the relative pressure for your location, locate an official reporting station near you (the internet is the best source for real time barometer conditions, such as Weather.com or Wunderground.com), and set your weather station to match the official reporting station.

3. Wind Gain Calibration

Press the **SET** button and the wind gain will flash. The default is 1.00.

Press the [+] or [-] button to adjust the wind speed calibration factor from 0.75 to 1.25, where:

Calibrated Wind Speed = Calibration factor x Measured Wind Speed

Press and hold the [+] or [-] button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset the current value.

Note: The wind gust is also affected by the wind speed calibration factor.

Discussion: Wind speed and wind gust are adversely affected by installation constraints. The rule of thumb is to install the weather station four times the distance of the height of the tallest obstruction (For example, if the building is 20ft tall, and the mounting pole is 6ft tall, install 4 x (20 – 6) ft = 56ft away.).

In many instances, due to trees and other obstructions, this is not possible. The wind speed calibration allows you to correct for these obstructions.

In addition to installation challenges, wind speed bearings (any moving part) wear over time. To correct for wear, the correction value can be increased until the wind cups must be replaced.

Without a calibrated source, wind speed is a difficult parameter to measure. We recommend using a calibrated wind meter and constant, high-speed fan.

4. Rain Calibration

Press the **SET** button again and the Rain Calibration value will begin flashing (the default is 1.0). Press the [+] or [-] button to adjust the rain calibration factor from 0.75 to 1.25, where:

Calibrated Rain = Calibration factor x Measured Rain

Press and hold the [+] or [-] button for three seconds to increase or decrease rapidly.

Press the **ALARM** button to reset the current value.

Discussion: The rain collector is calibrated at the factory based on the funnel diameter. The bucket tips every 0.01 inch of rain (referred to as resolution). The accumulated rainfall can be compared to a sight glass rain gauge with an aperture of at least 4 inches.

Note: Debris and insects can collect inside the tipping mechanism (they make a good spider's nest). Carefully remove the funnel and inspect the tipping mechanism for debris prior to calibration.

14. Service

Please contact us for any questions regarding the product or claims, preferably by email.

ACCUR8
Ford Lane Business Park
Ford
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BN18 0UZ
UK

Email: info@accur8tech.com

Phone: 01243 558 280

15. Disposal

Dispose of the packaging materials properly, according to their type, such as paper or cardboard. Contact your local waste-disposal service or environmental authority for information on the proper disposal.

Do not dispose of electronic devices in the household rubbish! As per Directive 2012/19/EC of the European Parliament on waste electrical and electronic equipment, used electronic devices must be collected separately and recycled in an environmentally friendly manner.

Do not dispose of batteries and rechargeable batteries with the household waste. You are legally required to return used batteries and rechargeable batteries. After they are used, the batteries can be returned free of charge to our point of sale or to a nearby location (for example, retailers or municipal collecting points). Batteries and rechargeable batteries are marked with a symbol of a crossed-out dustbin and the chemical symbol of the pollutant. “Cd” stands for Cadmium, “Hg” stands for mercury and “Pb” stands for lead.

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