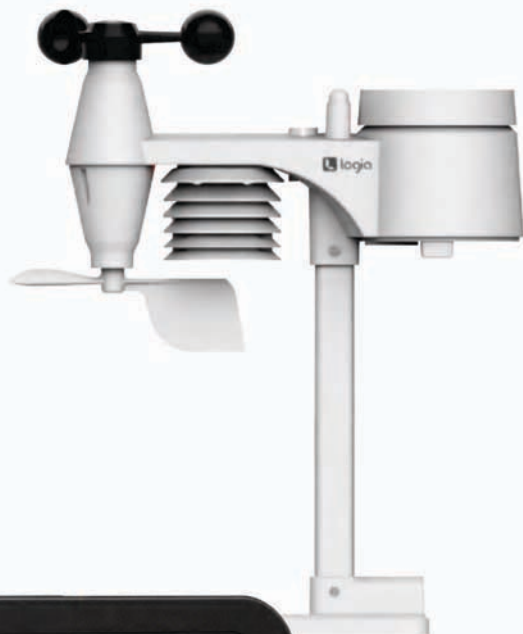




5-IN-1 WIRELESS WEATHER STATION WITH WI-FI® USER GUIDE

LOWSC510WB



Thank you for purchasing the **Logia™ 5-in-1 Wireless Weather Station with Wi-Fi®**. This User Guide is intended to provide you with guidelines to ensure that operation of this product is safe and does not pose risk to the user. Any use that does not conform to the guidelines described in this User Guide may void the limited warranty.

Please read all directions before using the product and retain this guide for reference. This product is intended for household use only. It is not intended for commercial use.

This product is covered by a limited one-year warranty. Coverage is subject to limits and exclusions.

See warranty for details.

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■ SAFETY PRECAUTIONS

1. Do not let children use or play with this device. It is not a toy.
2. Do not use any attachments not supplied or recommended by the manufacturer.
3. Do not place the appliance near open flames or heat sources. Fire, electric shock, product damage, or injury might occur.
4. Do not mix old and new batteries in the display unit.
5. A low battery symbol  will appear in the OUT or CH sections of the LCD display when battery power is low on the console or weather sensor, respectively. Be sure to change the batteries promptly to ensure the proper operation of the weather station.
6. Do not subject the display unit to excessive force or shock (do not throw the unit!), dust, extreme high or low temperatures, or humidity/moisture. These can cause the unit to stop functioning as well as present the risk of shock, fire, or other hazards.
7. Do not cover the ventilation holes on the display with newspapers, curtains, or any other items.
8. Never immerse the display in water! If you spill any liquid on the display, dry it immediately with a soft, lint-free cloth.
9. Do not use abrasive or corrosive materials to clean the display.
10. Do not tamper with the display or the weather vane's internal components. This invalidates your limited warranty.
11. Placing this product on certain types of wood may result in unintended damage to the finish, for which Logia™ will not be responsible. Consult your furniture manufacturer's instructions for information on wood care.
12. Do not dispose of old batteries as unsorted municipal waste. Make sure to dispose of them properly according to your local guidelines.
13. The main display console is only intended for use indoors.

QUESTIONS OR PROBLEMS? CONTACT US!

Email: info@supportcbp.com or call: 1-833-815-0568
www.logiaweatherstation.com

■ WARNINGS

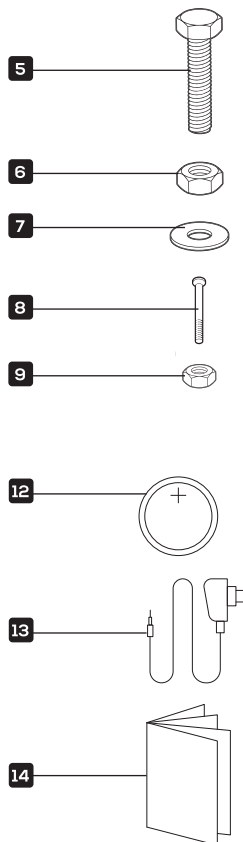
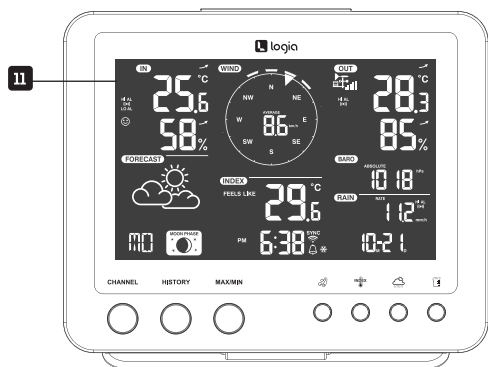
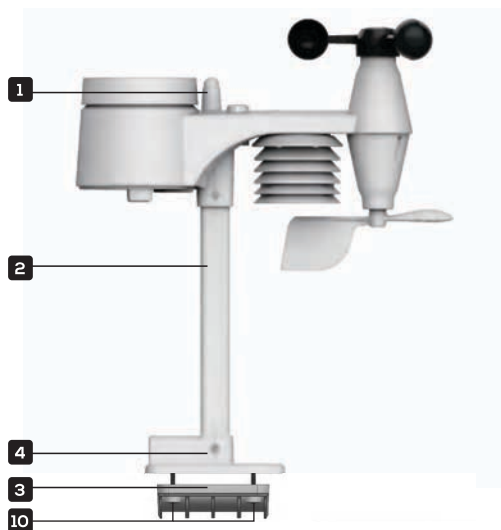
- a. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- b. Even used batteries may cause severe injury or death.
- c. Call a local poison control center for treatment information.
- d. The compatible battery type: CR2032.
- e. The nominal battery voltage: 3.0VDC.
- f. Non-rechargeable batteries are not to be recharged.
- g. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- h. Ensure the batteries are installed correctly according to polarity (+ and -).
- i. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- j. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- k. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

 WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

■ PRODUCT FEATURES

1. Wireless 5-in-1 weather sensor measures wind speed, wind direction, rainfall, temperature, and humidity.
2. No calibration needed! The Product is fully pre-calibrated and mostly assembled; all you need to do is install it and sync with the included display console.
3. Provides precise weather and environmental information directly from your own backyard, instead of relying on a national weather station.
4. Color LCD display with dimmable backlight and black background.
5. Can alert you to excessively high/low indoor or outdoor temperatures or humidity, high wind speeds, extreme drops in barometric pressure, high heat indexes, low wind chills, and high/low dew points.
6. Syncs with installed Wi-Fi® and online weather servers (Weather Underground and Weathercloud) to help you store and track weather data in your area, plus view live wather statistics and historical weather trends.

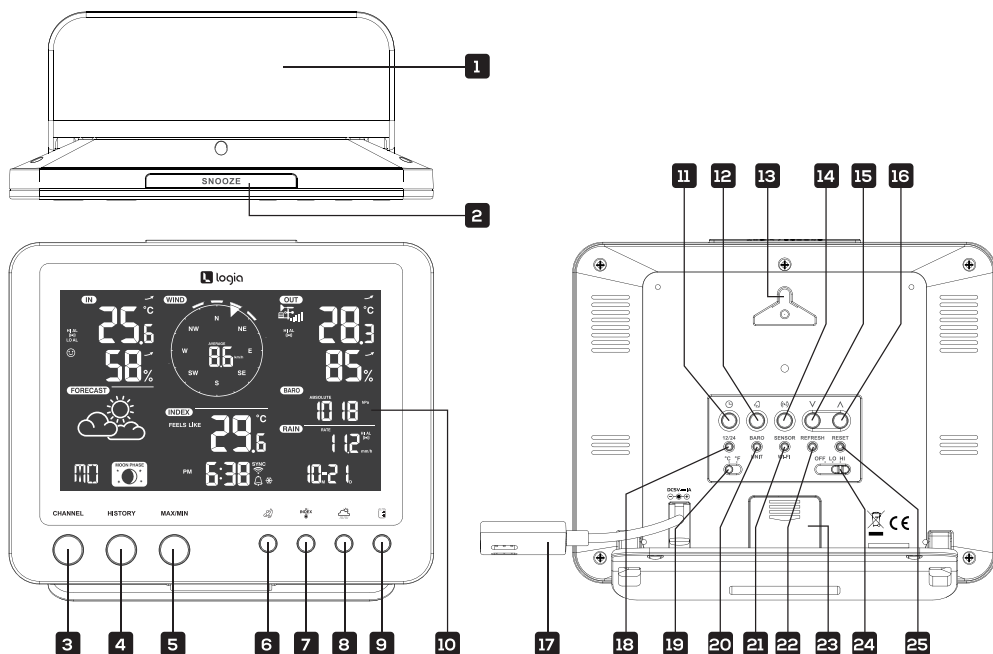
■ PACKAGE CONTENTS



- | | | |
|--|------------------------------------|--|
| 1. Wireless Weather Sensor (1) | 6. Large Hexagonal Nuts (4) | 11. Display Console with Kickstand (1) |
| 2. Mounting Pole (1)
Plastic Exterior | 7. Large Washers (4) | 12. Display Console Battery (1) |
| 3. Mounting Clamp (1) | 8. Small Screws (2) | 13. Display Console Power Cable (1) |
| 4. Mounting Base (1) | 9. Small Hexagonal Nuts (2) | 14. User Guide |
| 5. Large Mounting Screws (4) | 10. Rubber Pads for Mounting Clamp | |

■ DISPLAY CONSOLE OVERVIEW

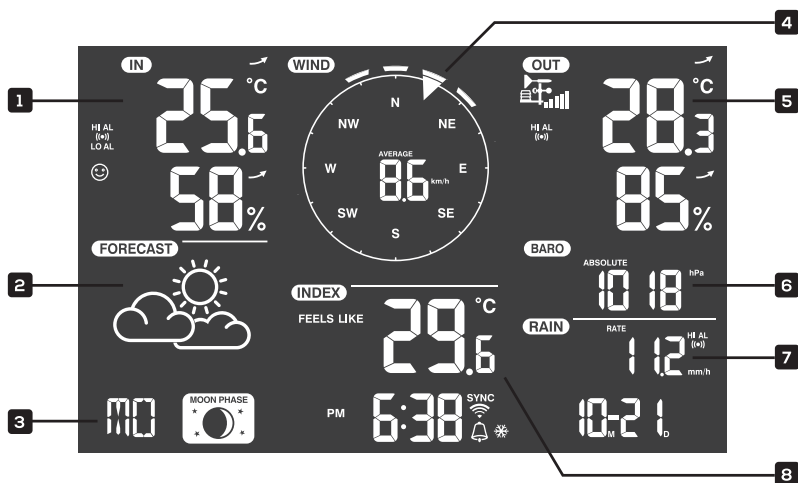
MAIN CONSOLE OVERVIEW



1. Kickstand
2. SNOOZE button
3. CHANNEL button
4. HISTORY button
5. MAX/MIN button
6. WIND button
7. INDEX button
8. BARO button
9. RAIN button
10. LCD Display (See overview on page 7)
11. CLOCK SET button
12. ALARM button
13. Wall mount notch
14. ALERT button
15. ▼ button
16. ▲ button
17. Power connection

18. 12/24 button
19. °C/°F button
20. BARO UNIT button
21. SENSOR/WI-FI button
22. REFRESH button
23. Battery compartment
24. OFF/LO/HI button
25. RESET button

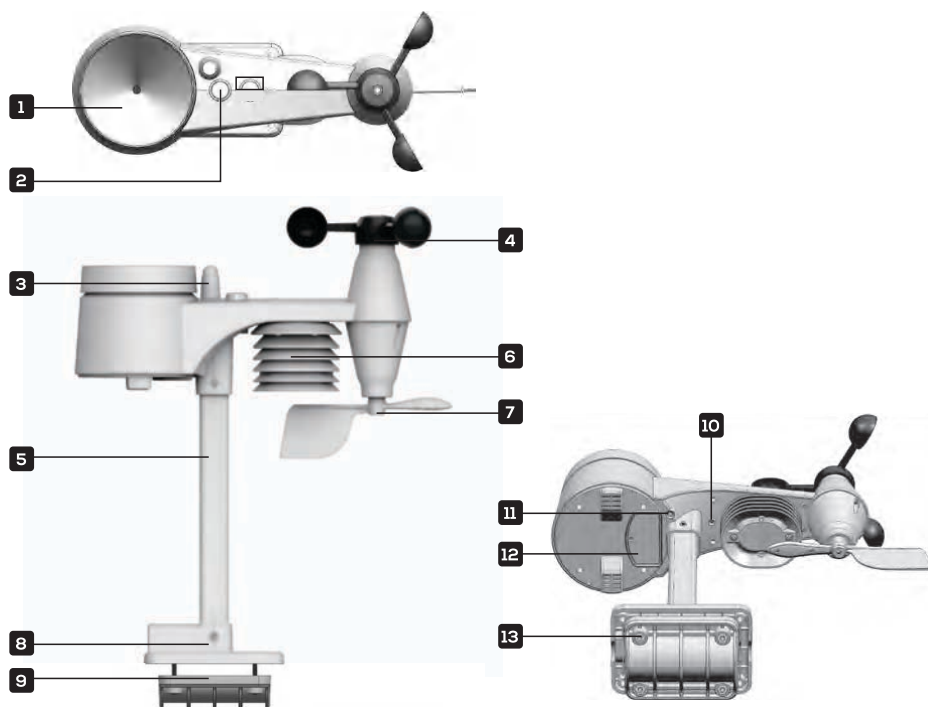
■ LCD DISPLAY OVERVIEW



1. Temperature & humidity (indoor/CH)
2. Weather forecast
3. Time, date, & moon phase
4. Wind speed & direction
5. Temperature & humidity (outdoor)
6. Barometer
7. Rainfall
8. Weather index

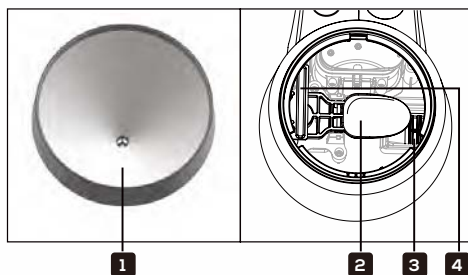
■ WIRELESS WEATHER SENSOR OVERVIEW

MAIN DEVICE



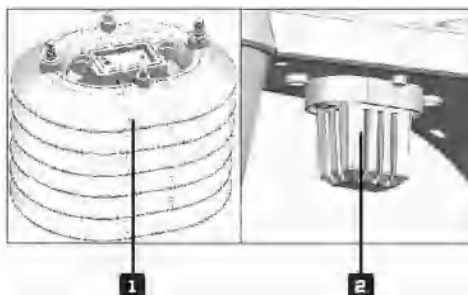
- | | |
|---------------------------|---------------------------|
| 1. Rain collector | 8. Mounting base |
| 2. Level | 9. Mounting clamp |
| 3. Antenna | 10. Red LED indicator |
| 4. Wind cups (anemometer) | 11. RESET button |
| 5. Mounting pole | 12. Battery compartment |
| 6. Sensor casing | 13. Mounting clamp screws |
| 7. Wind vane | |

RAIN GAUGE



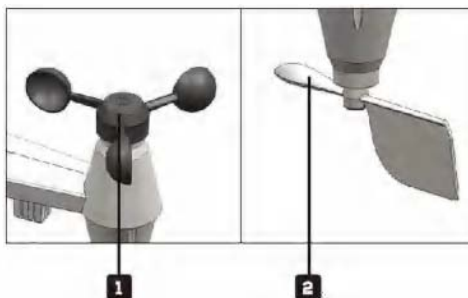
1. Rain collector
2. Tipping bucket
3. Drain holes
4. Rain sensor

TEMPERATURE AND HUMIDITY SENSOR



1. Sensor shield
2. Temperature and humidity sensor

WIND SENSOR

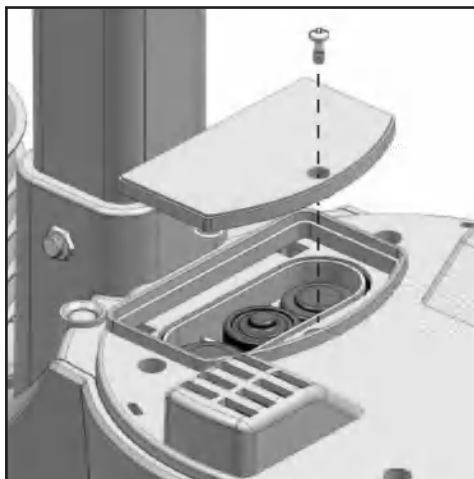


1. Wind cups (anemometer)
2. Wind vane

■ WIRELESS WEATHER SENSOR SETUP

INSTALL BATTERIES

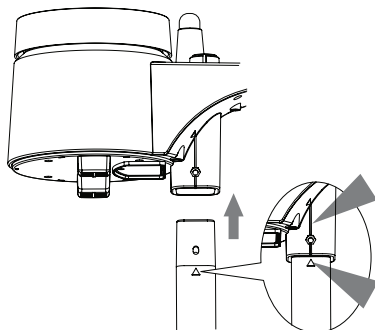
1. Unscrew the door to the battery compartment on the underside of the main sensor unit.
2. Insert three (3) new AA alkaline batteries, making sure the polarities match up with the markings inside the compartment.



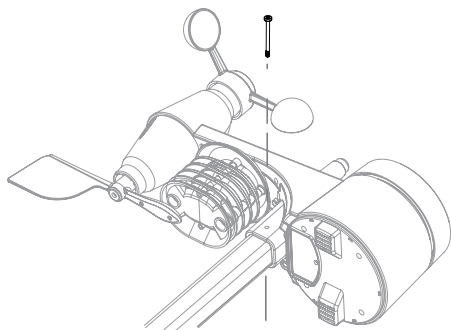
3. Replace the battery door, ensuring the watertight O-ring is properly aligned. This maintains the water-resistant seal.
4. Replace the battery screw, making sure it is tightly fastened down. The red LED should begin flashing every 12 seconds.

ASSEMBLE STAND AND POLE

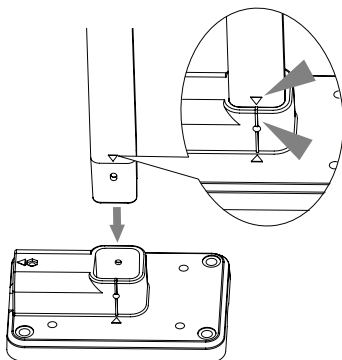
1. Insert the top of the pole into the square hole at the bottom of the weather sensor. Ensure that the arrow indicators are lined up as shown.



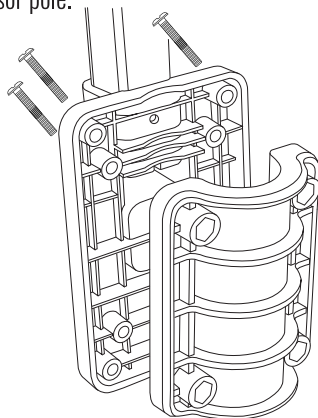
2. Insert the nut into the hexagonal hole by the sensor and hold it in place, then insert the screw through the other side. Use a screwdriver to tighten the screw. Do not insert the screw first, or the nut may not line up correctly with the designated hole.



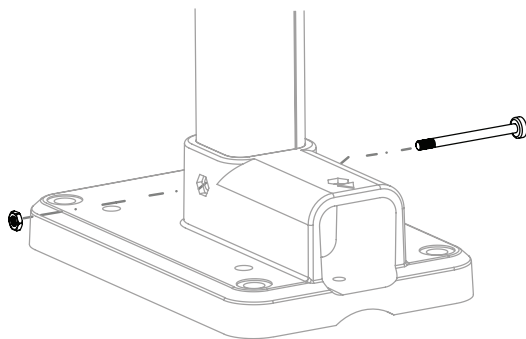
3. Insert the bottom of the pole into the square hole on the plastic stand, making sure the arrows are lined up as shown.



Please note that there are two different ways you can attach the pole to the base, depending on how you will be mounting it outdoors. If you will be fastening the sensor directly to a railing, use the option that positions the stand perpendicular to the sensor pole. If you will be fastening it to a pole, use the slot that positions the base parallel to the sensor pole.

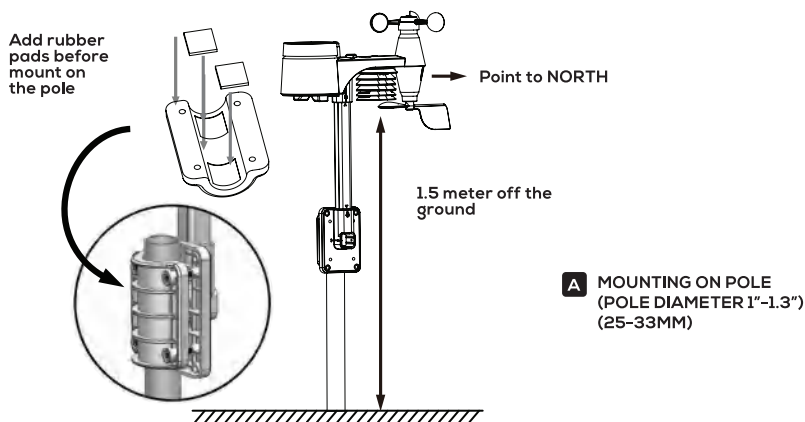


4. Insert the nut into the hexagonal hole on the side of the stand and hold it in place, then insert the screw through the other side. Use a screwdriver to tighten the screw.



MOUNT THE SENSOR OUTDOORS

1. The wireless weather sensor should be mounted in an open area with no obstructions above and/or around it, so that it can accurately measure the rain and wind.
2. The wind vane should be pointed due North (refer to the arrow on top of the unit) in order to be properly oriented and receive accurate wind readings.
3. The mounting stand and included clamps should be secured to a post or pole, with a minimum of 4.9 ft. (1.5 m) ground clearance.
4. If securing to a pole, make sure you add the rubber pads to the clamp before fastening it with the included screws. The pole should be between 1"-1.3" in diameter.



If securing to a railing, make sure the railing is made of suitable material, and screw directly through the openings in the base stand into the railing until secure.



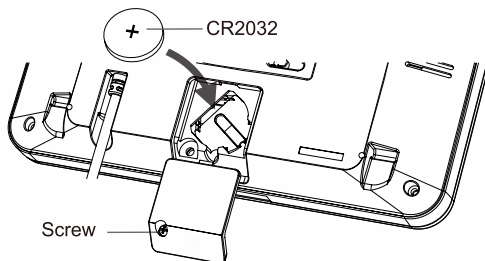
B MOUNTING ON A RAILING

5. The mounting location should be within 492 ft. (150 m) of the location where you will be keeping the display console with few obstructions and relatively clear sightlines. If there are multiple walls/levels/buildings in between the sensor and the display console, the functionality could be compromised and you will need less space between the two.
6. Use the built-in level to make sure the sensor is parallel with the ground.

■ DISPLAY CONSOLE SETUP

Your display console can pair with the wireless weather sensor as well as up to seven (7) optional wireless hygro-thermo outdoor sensors (not included).

INSTALLING THE BACKUP BATTERY



1. Detach the table stand.
2. Unscrew the console battery door screw.
3. Remove the battery door.
4. Insert a new button cell battery.
5. Replace the battery door and tighten the screw.

NOTE: The backup battery can assist with backing up the time & date, MAX/MIN data, weather records from the past 24 hours, alert settings, the offset value of weather data, and the sensor(s) channel history. The built-in memory will backup router and weather server settings.

POWERING THE DISPLAY CONSOLE

1. Connect the power cable to a wall outlet or power source and to the display console power connection port.
2. The display console should power on, and all the segments of the LCD display screen should be shown.
3. The display console will automatically start AP mode.

NOTE: If nothing appears on the LCD display screen after you plug in the power adaptor, use a pin or similar small object to press the RESET button.

SET THE LCD DISPLAY VIEWING ANGLE

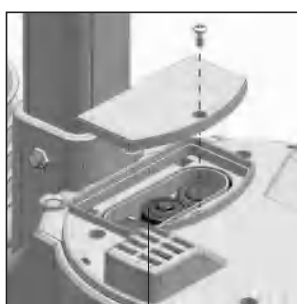
If you have the display console wall-mounted or on a table stand, the viewing angle may need adjustment. Press ▲ or ▼ buttons while the display is in normal operating mode to adjust the viewing angle.

PAIRING THE WIRELESS WEATHER SENSOR WITH THE DISPLAY CONSOLE

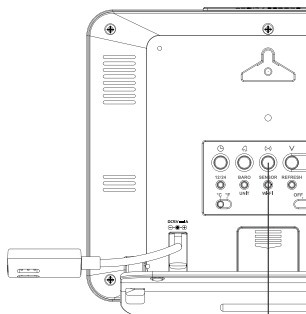
1. Once your display console powers on, it should automatically search for and connect to the wireless weather sensor. If the console does not connect within the first 15 minutes, refer to the following section, Changing Batteries and Manual Pairing, for instructions on manual pairing.
2. You will see the icon of an antenna blinking in the temperature and humidity (outdoor) section of the display.
3. Once the pairing process completes, the antenna icon will appear solid (not blinking), and the readings for outdoor temperature and humidity, wind speed, wind direction, and rainfall will appear in their designated sections of the LCD display.

CHANGING BATTERIES AND MANUAL PAIRING

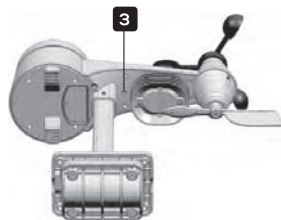
Whenever you change the batteries in the sensor, you will need to manually pair it with the display console. Follow these instructions to manually pair your console with the sensor.



1



2



3

1. Change the batteries in the wireless weather sensor.
2. Press the SENSOR/WI-FI button at the back of the console.
3. Press the RESET key on the underside of the wireless weather sensor. Make sure after pressing the RESET key that the red LED indicator is flashing every 12 seconds.

NOTE: Any time you press the RESET key underneath the wireless weather sensor, it generates a new ID code for pairing with the console, and you will need to press the SENSOR/WI-FI button on the console for the two devices to pair again.

PAIRING ADDITIONAL WIRELESS SENSORS WITH THE DISPLAY CONSOLE

The display console should automatically search and pair with any additional wireless hygro-thermo outdoor sensors you install. You can also press the SENSOR/WI-FI button to search manually for the sensor while on the channel where it should display. Once your sensor has paired, the sensor signal strength indicator and weather information will appear in the temperature and humidity (outdoor) section when you are on the channel associated with that sensor.

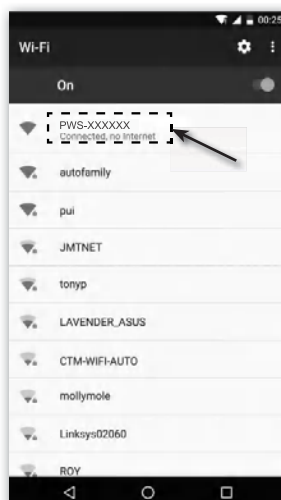
SET UP WI-FI® CONNECTION

When you first power up the console, or press and hold the SENSOR/WI-FI button for six (6) seconds, the console LCD display will show the letters “AP” and an  icon to signify that it has entered Access Point (AP) mode. At this time it will be ready for the Wi-Fi® settings to be adjusted.



Use your smartphone, tablet, or computer to connect to the console via Wi-Fi® by following these steps:

1. On PC, open your Wi-Fi® network settings. On Android™ or iOS devices, go to settings menu and then select Connections/WI-FI to open the network settings.
2. Locate the display console's SSID from the list. It should appear as PWS-XXXXXX (where all the X's are integers) in the list. Tap on the SSID to connect. This step will take several seconds.



- Once you are connected to the display console, open up your internet or mobile web browser, and enter the following address into the address bar: <http://192.168.1.1> (make sure to include the <http://> or else the web browser may interpret the address as a search query). We recommend using the latest version of reputable web browsers.

SET UP WEATHER SERVER CONNECTION

Once you are connected via Wi-Fi® to the display console and have opened the settings page at <http://192.168.1.1>, enter the following information into the web interface setup page. If you have chosen not to use Weather Underground or Weathercloud's servers, leave the check boxes unchecked.

The screenshot shows the 'Pro Weather Link' web interface in the 'SETUP' tab. The 'Language' is set to 'English'. The 'WIFI Router setup' section includes a 'Search' button, a 'Router' dropdown menu (currently showing 'ROUTER_A'), an 'Add Router' button, a 'Security type' dropdown menu (currently showing 'WAP2'), and a 'Router Password' field with a password icon. The 'Weather server setup' section has two sections: 'Wunderground' and 'Weathercloud'. Each section has a checked checkbox, a 'Station ID' field, and a 'Station key' field. The 'Mac address' is displayed as '00:0E:C6:00:07:10'. The 'Time server setup' section has a 'Server URL' dropdown menu (currently showing 'nist,time.gov'). At the bottom, there is an 'Apply' button. Annotations with arrows point to various elements: 'Press "SETUP" icon to SETUP page' points to the 'SETUP' tab; 'Press to search router' points to the 'Search' button; 'Press to allow add router manually' points to the 'Add Router' button; 'Password record remark (If you entered password)' points to the 'Router Password' field; 'Current ID and key recorded (if any)' points to the 'Station ID' and 'Station key' fields for both 'Wunderground' and 'Weathercloud'; 'Select the WI-Fi router (SSID) you will connect to' points to the 'Router' dropdown; 'Manually enter the SSID if not on the list' points to the 'Add Router' button; 'Select router's security type (usually WAP2)' points to the 'Security type' dropdown; 'Router's password (leave blank if unsecured)' points to the 'Router Password' field; 'Check to confirm upload to Weather Underground' points to the 'Wunderground' checkbox; 'Enter new Station ID and Station key assigned by Wunderground (Weather Underground)' points to the 'Station ID' and 'Station key' fields for 'Wunderground'; 'Check to confirm upload to Weathercloud' points to the 'Weathercloud' checkbox; 'Enter new Station ID and Station key assigned by Weathercloud' points to the 'Station ID' and 'Station key' fields for 'Weathercloud'; 'Select time server' points to the 'Server URL' dropdown; and 'Press to complete the setting' points to the 'Apply' button.

Pro Weather Link

Language: English

SETUP **ADVANCED**

WIFI Router setup

Search Router: ROUTER_A

Add Router

Security type: WAP2

Router Password: *****

Weather server setup

Wunderground ☒ Check to confirm upload to Weather Underground

Station ID: Enter new Station ID and Station key assigned by Wunderground (Weather Underground)

Station key:

Weathercloud ☒ Check to confirm upload to Weathercloud

Station ID: Enter new Station ID and Station key assigned by Weathercloud

Station key:

Mac address 00:0E:C6:00:07:10

Time server setup

Server URL: nist,time.gov Select time server

Function firmware version: 1.00
WiFi firmware version: 1.00

Apply Press to complete the setting

SETUP page

NOTES: When the Wi-Fi® setup is complete, your computer or mobile device will return to the default Wi-Fi® connection. If it does not, simply open your device's wireless network settings and manually reconnect.

While in AP mode, you can press and hold the SENSOR/WI-FI button for six (6) seconds to exit AP mode. The display console will simply restore the previous AP settings.

WI-FI® CONNECTION STATUS

The following icons on the LCD display screen show the Wi-Fi® status:

		
Solid: the display console is connected to your wireless router	Flashing: the display console is attempting to connect to your wireless router	Flashing: the display console is currently in AP (access point) mode

TIME SERVER CONNECTION STATUS

Once the display console has connected to the internet, it will attempt to connect to the internet time server to obtain the UTC time. Once the connection is successful and the time has been updated, the “SYNC” icon will appear above the Wi-Fi® icon on the LCD.



To display the correct time for your specific time zone, you'll need to change the time zone in the CLOCK setting mode from 00 (default) to your specific time zone (e.g. -5 for EST). If you don't know your time zone, you can look it up online.

1. In normal operating mode, press and hold the CLOCK SET button for two (2) seconds to enter the clock setting menu.
2. Press the ▲ or ▼ buttons to adjust the time zone, and then press and hold the CLOCK SET button for two (2) seconds to confirm and exit the menu. Please refer to the Setting the Time section of the manual on page 24 for details of other available clock settings.

The time will automatically sync with the internet time server at 12:00AM and 12:00PM each day. If you would like to force it to sync sooner than that, press the REFRESH button on the console to update the time in the next minute.

ADVANCED SETTINGS VIA WEB INTERFACE

Once you are connected via Wi-Fi® to the display console and have opened the settings page at <http://192.168.1.1>, clicking on the tab that says ADVANCED will open the following page. This page will allow you to set and view specific calibration data of your display console, and also update the firmware if you are on PC.

Pro Weather Link

Language: English

SETUP **ADVANCED**

Select setting unit

Temperature calibration section

Humidity calibration section

Pressure calibration section

Rain calibration section

Wind calibration section

Select setting unit

Function firmware version: 1.00
WiFi firmware version: 1.00

Temperature		Humidity %	
	°C		
Indoor	Current offset: 1	Current offset: -5	
Outdoor	Current offset: -9	Current offset: 10	
CH 1	Current offset: 2	Current offset: -5	
CH 2	Current offset: 3	Current offset: -2	
CH 3	Current offset: 1,2	Current offset: -2	
CH 4	Current offset: -0,2	Current offset: -5	
CH 5	Current offset: -20,1	Current offset: -3	
CH 6	Current offset: 11,5	Current offset: -10	
CH 7	Current offset: 0,2	Current offset: -3	
Range: -20,0 ~ 20,0°C -36,0 ~ 36,0°F (Default: 0,0)		Range: -20 ~ 20 (Default: 0)	

Pressure	
	hpa
Absolute Pressure Offset:	Current offset: -3 (Default: 0)
Relative Pressure Offset:	Current offset: 10 (Default: 0)
Setting Range: -800 ~ 800hpa / -23,62 ~ 23,62inHg / -601,5 ~ 601,5mmHg	

Rain	
Rain gain:	Current gain: 0,85 Range: 0,5 ~ 1,5(Default: 1,00)
Wind speed gain:	Current gain: 0,75 Range: 0,5 ~ 1,5(Default: 1,00)
**Wind direction:	Current offset: 2° Range: -10 ~ 10(Default: 0°)
**UV gain:	Current gain: 1,1 Range: 0,01 ~ 10(Default: 1,00)

** Depends on outdoor sensor type

Advanced page

CALIBRATION

1. You may enter or change the offset and gain values for different measurement parameters, while viewing the current offset and gain values next to the corresponding boxes.
2. Once you have completed your calibrations, press the APPLY button on the SETUP tab.
3. The current offset value will update to show the value that you entered (instead of the default value). If you want to change the value, you can enter a new value in the box beside the number (as in step 1). To update the value, again, press APPLY in the SETUP tab.

NOTE:

We do not recommend calibration of most values with the exception of Relative Pressure, which must be correctly calibrated to reflect your distance above sea level to account for altitude effects.

CREATE AND SYNC YOUR WEATHER SERVER ACCOUNT

Your display console can upload weather data to Weather Underground and/or Weathercloud via your Wi-Fi® router.

NOTE: Logia™ does not own Weather Underground or Weathercloud, and these instructions are liable to change without notice due to changes in either website.

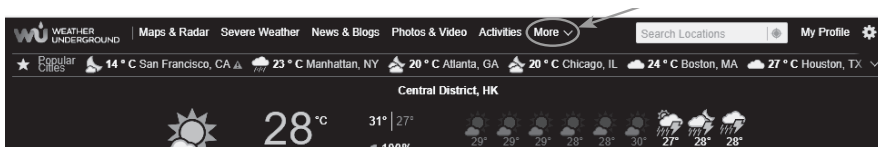
CREATE YOUR WEATHER UNDERGROUND ACCOUNT

1. Make sure your display console is connected to your Wi-Fi® network, as outlined in brief below. Detailed steps are available in the Set Up Wi-Fi® Connection segment on page 15 of this user guide. The display console must be connected to the Wi-Fi® network in order to communicate with Weather Underground.
 - a. Press and hold the SENSOR/WI-FI button for six (6) seconds to put your display console into AP mode.
 - b. Open your phone, tablet, or computer's wireless settings to search for a wireless network.
 - c. Locate the display console's SSID in the list and select it.
 - d. Once connected, open up your device's web browser and enter <https://192.168.1.1>
2. Visit the Weather Underground website at <https://www.wunderground.com> and click the link that says "JOIN". Follow the instructions to create an account.

NOTE: Please use a valid email address to register your account.



3. Once you have created your account and completed the email validation process, return to the Weather Underground website. Click the dropdown link at the top of the site that says MORE, and then select Add Weather Station from the dropdown menu.



4. Follow the instructions on screen to enter your weather station information. Step 2 will ask you to enter a name for your weather station (get creative if you want, but don't forget the name you gave it!) and choose your station hardware (choose "other"). Once you complete this section, click Submit to generate your unique Station ID and key.

Step 2: Tell Us About Your Station

✔ **Your Location Has Been Added**

Address: , Frankfurt, 60323, DE
 Elevation: 328.084000 ft
 Height Above Ground: 5 ft
 Lat, Lon: 50.1148400354092, 8.71721080532628
 Time Zone: ▼

We could not find your Time Zone, please select one from the list above to continue

Fill out the additional information about your weather station:

Neighborhood: (required) Organization:

Website:

Station Hardware: (required) other ▼ Surface Type: rooftop (composite-shingles) ▼

Associated WebCam: ① ▼

PWS Notification Email Preferences:

☒ I would like to receive PWS notifications ①
☐ I would like to receive PWS community newsletter ①

← Back Submit →

- Write down or screenshot your Station ID and Station Key/Password for reference and to complete the setup process.

Step 3: Add Your WU Info to Your Weather Station Software

Congratulations. Your station is now registered with Wunderground!

You are almost done. Now go to your weather station software and add the following:

Your Station ID: **18**

Your Station Key/Password: **qtk4on0s**

It may take a few minutes or several hours for your station to start sending data to Weather Underground.
 ID and Password are case-sensitive. (We Process them require you to register with a 3rd party site (eg. amazon.com).
 Check your PWS!

CREATE YOUR WEATHERCLOUD ACCOUNT

- Visit the Weathercloud website at <https://www.weathercloud.net> and enter your information in the box that says Join Us Today. Follow the instructions to create an account.
 NOTE: Please use a valid email address to register your account.