

USER MANUAL

7-IN-1 SMART WIFI WEATHER STATION

Item No.: 20160



SAFETY PRECAUTIONS



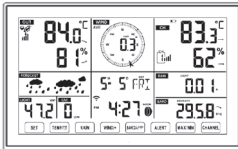
IMPORTANT NOTICE

Prior to operating this appliance, carefully review all safety precautions, operating guidelines, and maintenance/care instructions provided in this manual. Retain this document for future reference.

- This product is intended for adult use only and is not a toy. Keep out of reach of children.
- The primary function of this product is to provide weather information for residential use only. It is not designed for medical applications or public dissemination of information.
- Refrain from cleaning the unit with abrasive or corrosive materials.
- Do not position the appliance near open flames or heat sources, as this may result in fire, electric shock, product damage, or personal injury.
- Ensure that only fresh, new batteries are installed in the product, and avoid mixing new and old batteries.
- Do not attempt to disassemble, modify, or alter the product in any way.
- Utilize only manufacturer-approved attachments and accessories with this product.
- To prevent damage, do not immerse the unit in water. If exposed to liquid, gently wipe the product with a soft cloth.
- Protect the unit from excessive force, impact, dust, extreme temperatures, and humidity.
- Ensure that ventilation holes remain unobstructed by objects.
- The product's console is designed for indoor use only.
- Avoid positioning the indoor sensor in direct sunlight, rain, snow, or other adverse weather conditions.

PACKAGE CONENT

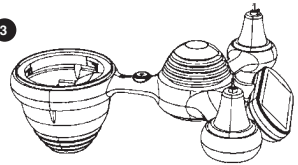
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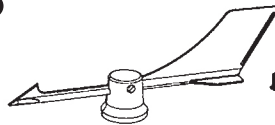
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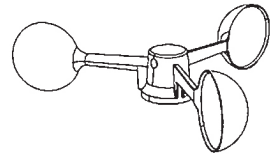
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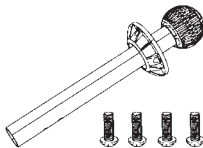
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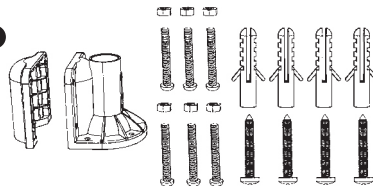
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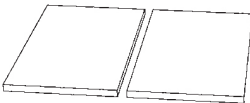
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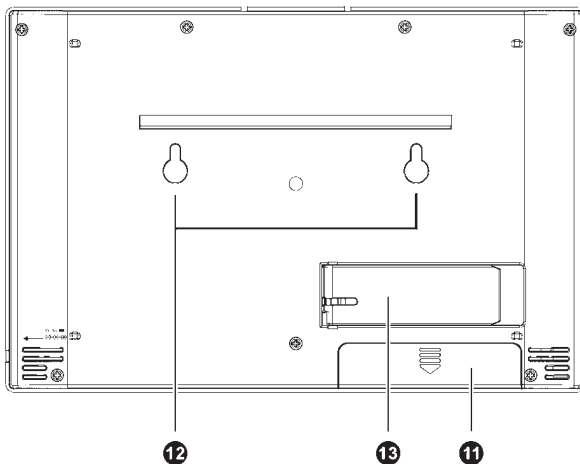
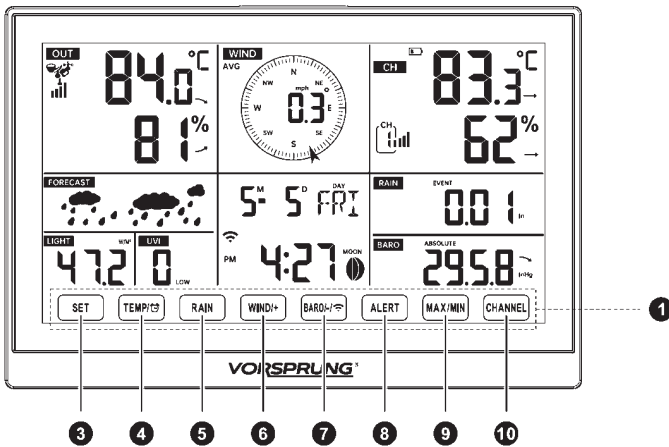
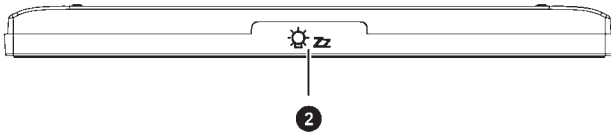
11



- | | |
|-------------------------------------|------------------------------------|
| 1. Indoor receiver | 7. Mounting pole with 4 screws |
| 2. USB A to DC cable | 8. Mounting brackets with 6 screws |
| 3. Wireless 7 in 1 outdoor sensor | 9. Rubber pads X 2 |
| 4. Funnel | 10. Screwdriver |
| 5. Wind direction vane with 1 screw | 11. User guide |
| 6. Wind speed cups with 1 screw | |

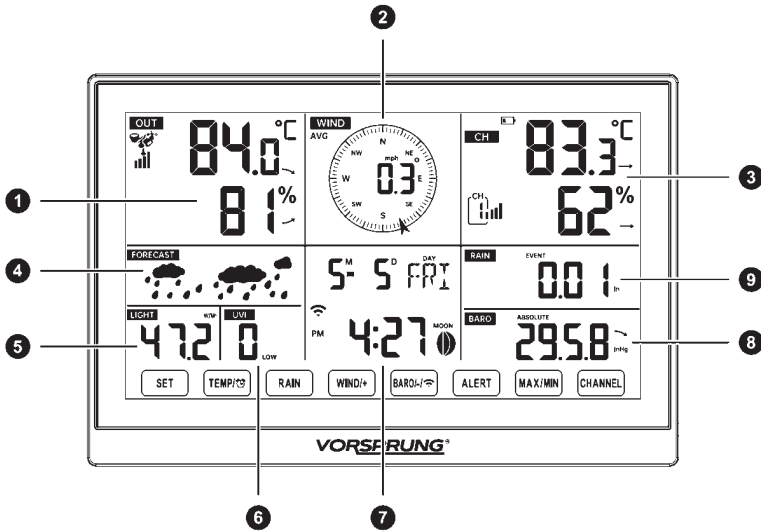
PRODUCT OVERVIEW

Weather Console Overview



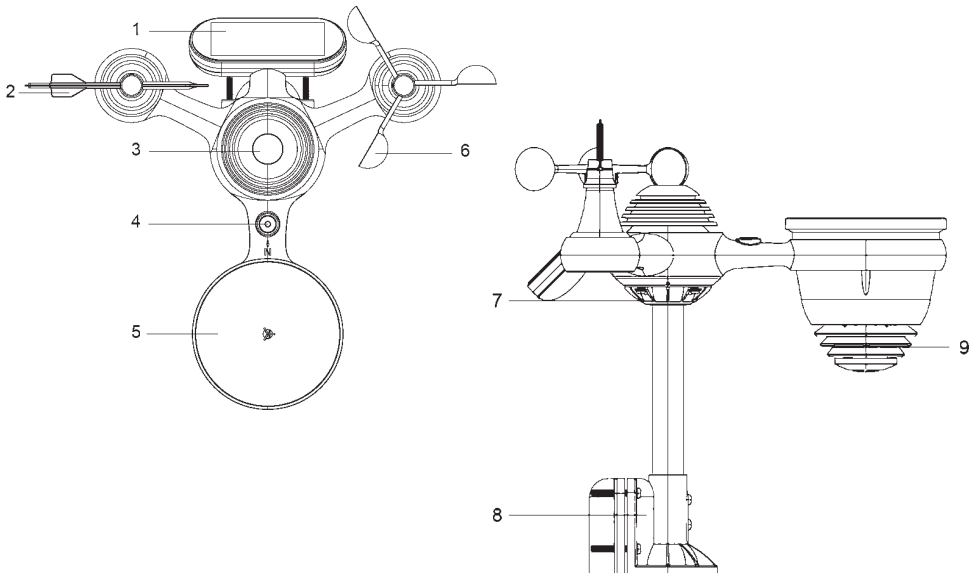
- 8 touch keys
- LIGHT/SNOOZE** key
- SET** key
- TEMP/ALARM** key
- RAIN** key
- WIND/+** key
- BARO/-/WIFI** key
- ALERT** key
- MAX/MIN** key
- CHANNEL** key
- Battery door
- Mounting hole
- Holder

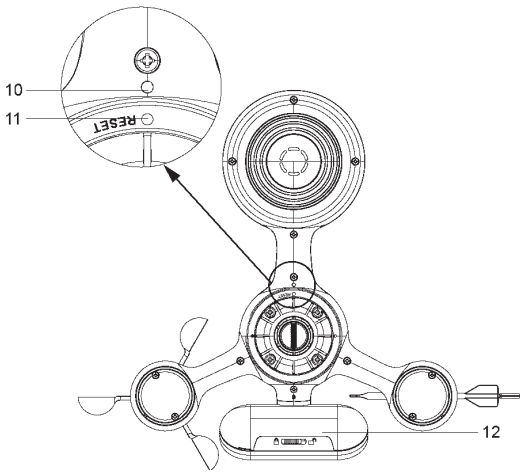
■ Console LCD Display Overview



1. Outdoor temperature & humidity, weather index
2. Wind direction & speed
3. Indoor temperature & humidity (CH), comfort index
4. Weather forecast
5. light intensity (SUN)
6. UV index
7. Time & date, moon phase, alarm
8. Barometer
9. Rain

■ Wireless 7 in 1 Outdoor Sensor Overview





1. Solar panel
2. Wind direction vane
3. UV/light sensor
4. Bubble level gradienter
5. Rain collector
6. Wind speed cups
7. Mounting pole
8. Mounting brackets
9. Hygro-thermo sensor
10. LED: Flashes when the unit transmits a reading
11. **RESET** button
12. Battery door

SETTING UP THE WIRELESS 7-IN-1 OUTDOOR SENSOR

The wireless 7-in-1 outdoor sensor measures wind speed, wind direction, rainfall, UV, light intensity, temperature, and humidity.

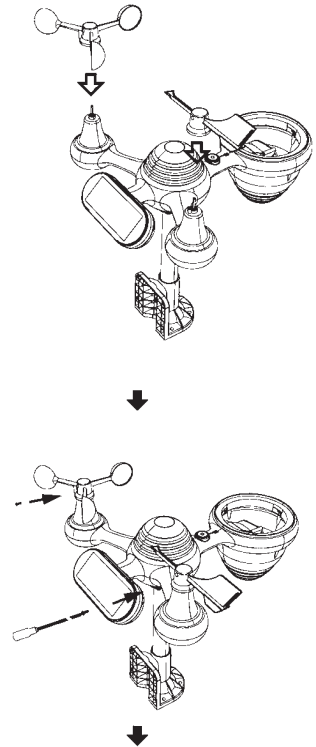
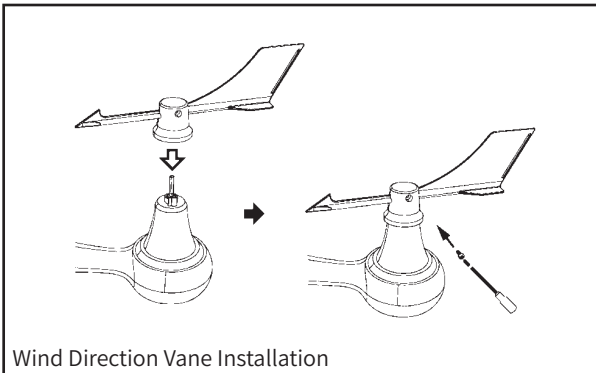
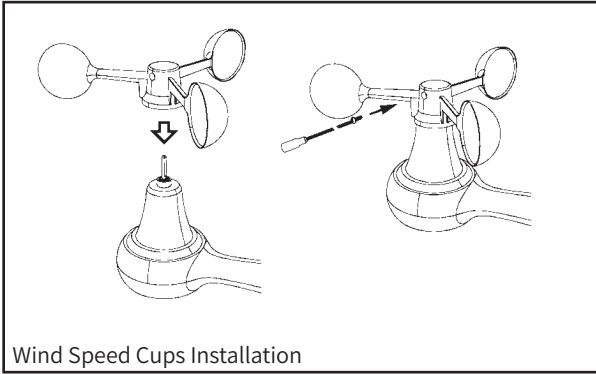
■ Installing the Mounting Pole and Bracket

Secure the sensor onto a mounting pole and bracket (included) using the screws (included).



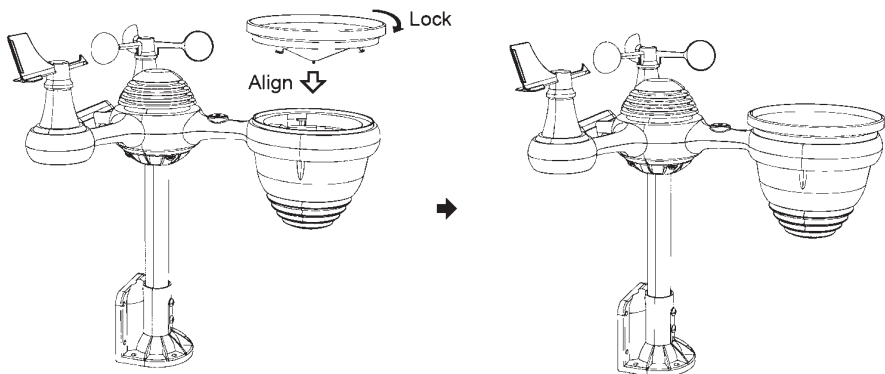
■ Installing Wind Speed Cups and Wind Direction Vane

- Align the screw holes in the wind speed cups with the flat, vertical side of the metal rod.
- Insert the wind speed cups in the metal rod and screw on tight to lock it in place.
- Align the screw holes in the wind direction vane with the flat, vertical side of the metal rod.
- Insert the wind direction vane in the metal rod and screw on tight to lock it in place.



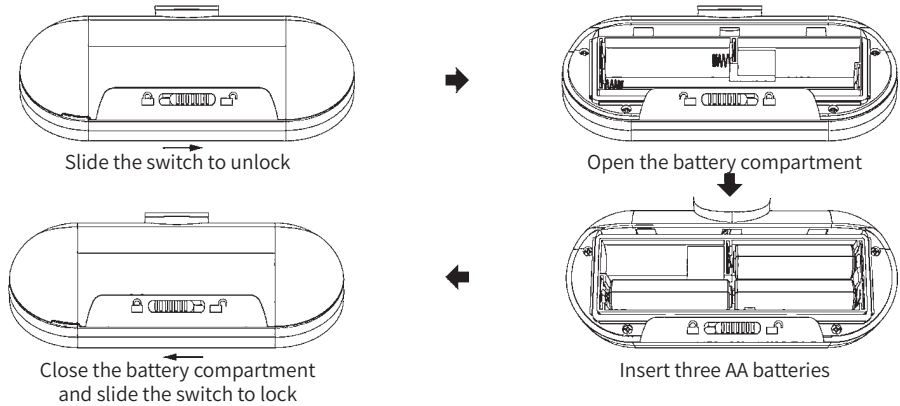
■ Setting Up Rain Collector

- Align the notches on the funnel with the lock grooves inside the rain collector.
- Insert the funnel in the rain collector and screw on tight to lock it in place.



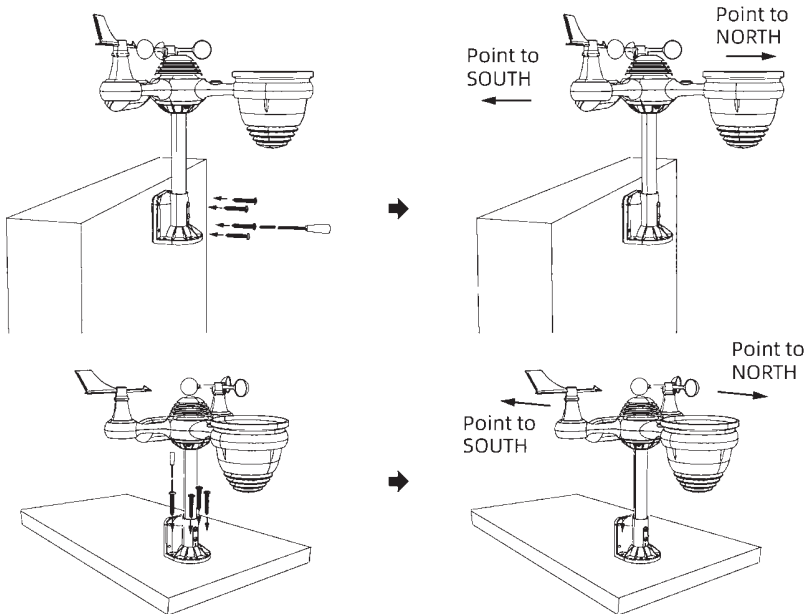
■ Installing the Batteries

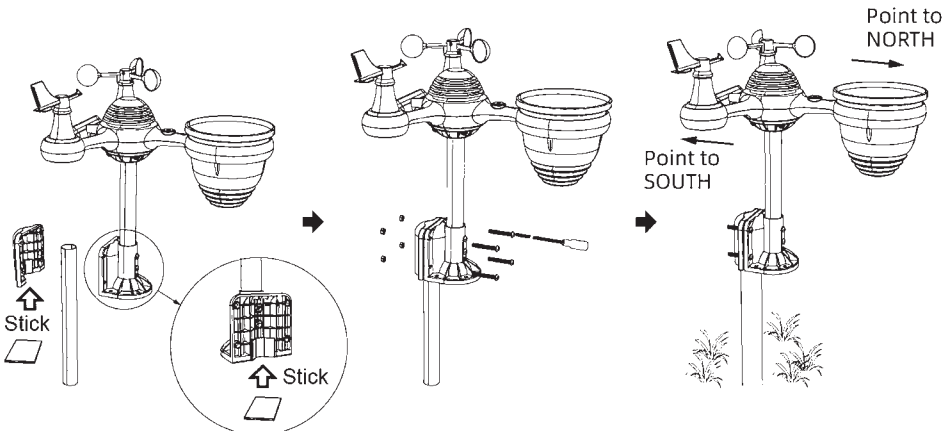
- Slide the switch to unlock the battery compartment at the bottom of the solar panel.
- Insert three AA batteries (not included) according to the +/- polarity labeled in the compartment.
- Lock the battery compartment back onto the compartment.



■ Mounting the Wireless 7-in-1 Outdoor Sensor

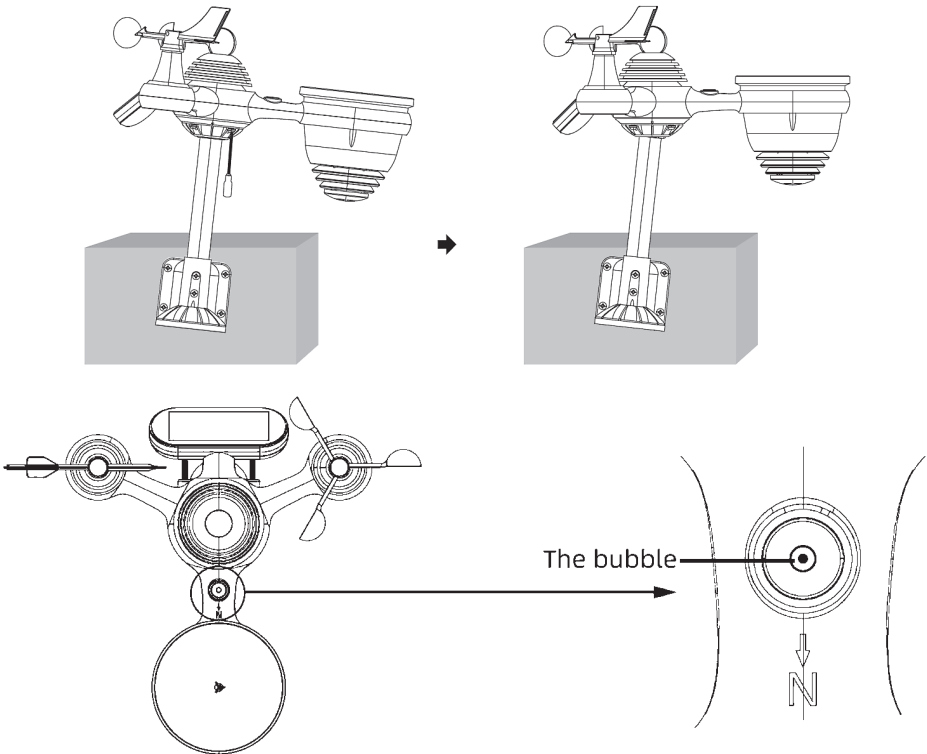
- Select an unobstructed location for the 7-in-1 outdoor sensor to ensure optimal performance.
- Secure the mounting brackets to a surface or wall using the four included tapping screws, or affix the mounting pole to a pre-existing mounting pole using $\phi 5$ Bolts and M5 Nuts assembly.
- Attach rubber pads to the mounting bracket prior to fastening it onto the sensor, for added stability and protection.
- Before tightening the screws, ensure that the rain collector is oriented towards the north and the solar panel faces south for maximum efficiency.
- It is crucial to firmly secure the sensor to prevent movement during windy conditions, as this may result in inaccurate rainfall data due to transmitter vibrations.





■ Adjusting the 7-in-1 Wireless Sensor Level

- Utilize the bubble level indicator to ensure that the wireless outdoor sensor is perfectly level. An unlevel sensor may result in inaccurate readings for the gain gauge, UV, and light intensity measurements.
- To adjust the level of the wireless outdoor sensor, loosen the screws on the mounting pole. Carefully reposition the sensor so that the bubble is centered within the bubble level indicator.
- Once the sensor is properly leveled, securely tighten the screws on the mounting pole to maintain its position.



MAIN FEATURES

- Real Time Clock with calendar
- Alarm with snooze function.
- Time zone setting and Daylight Saving Time (DST) function.
- Wi-Fi connected to time server and weather servers.
- Automatically sync with internet time server.
- 8 Languages (EN/ DE/ FR/ ES/ IT/ NL/ RU/ DU)
- Moon Phases
- Indoor & outdoor temperature and humidity displays with trend.
- Hourly, daily, weekly, monthly, total rainfall and rainfall rate in past hour.
- Average wind speed, gust wind speed and wind direction
- Absolute and relative barometric pressure displays with trend.
- Solar radiation intensity display
- UV index display.
- Weather index display: Feel likes, Wind Chill, Heat index, Dew point
- Weather Forecasting.
- Weather alert settings - Outdoor temperature Hi/Lo alert, Outdoor humidity Hi/Lo alert, Indoor temperature Hi/Lo alert, Indoor humidity Hi/Lo alert, average Hi wind speed, Hi Gust speed, UV index Hi alert, Light intensity Hi alert, Pressure drop alert, High rain rate alert, Hourly rainfall alert.
- 3- level brightness of backlight.
- Low battery indications for outdoor sensor and receiver.
- Upload weather data to Weather Underground and/or Weathercloud via Wi-Fi router.

KEY CONFIGURATION

Set Button:

- Press the **Set** button to toggle between normal clock mode and alarm mode.
- In normal mode, press and hold the **Set** button for 3 seconds to enter manual time setting mode.
- In alarm mode, press and hold the **Set** button for 3 seconds to enter alarm setting mode.

Temp/Alarm Button:

- In normal mode, press the **Temp/Alarm** button to cycle through outdoor temperature, “feels like” temperature, wind chill, heat index, and dew point.
- In alarm mode, press the **Temp/Alarm** button to turn the alarm on or off.

Rain Button:

- Press the **Rain** button to cycle through rain rate (in/hr), rain event, rain day, rain week, rain month, and rain total.
- Press and hold the **Rain** button for 2 seconds to reset the rain total.

Wind/+ Button:

- Press the **Wind/+** button to cycle through average wind speed, wind gust, and wind direction.
- In setting mode, press the **Wind/+** button to increase the value. Press and hold the **Wind/+** button for 2 seconds to increase the value rapidly.

Baro/-/Wifi Button:

- Press the **Baro/-/Wifi** button to toggle between relative pressure and average relative pressure.
- In setting mode, press the **Baro/-/Wifi** button to decrease the value. Press and hold the button for 2 seconds to decrease the value rapidly.

Alert Button:

- Press the **Alert** button to toggle between viewing high and low alarms.

Max/Min Button:

- Press the **Max/Min** button to toggle between minimum and maximum values.
- When displaying maximum data, press and hold the **Max/Min** button for 2 seconds to clear the max value.
- When displaying minimum data, repeat the process for Maximum to clear the value.

Channel Button:

Press and hold the **Channel** button for 2 seconds to register sensors.

SETTING UP INSTRUCTIONS

■ Setting Up Wi-Fi Connection

Note: The weather station operates on a 2.4GHz signal. If your router supports dual-band (2.4GHz and 5GHz), ensure that the 2.4GHz band is enabled.

Power up the console and press and hold the **BARO/-/WIFI** button for four (4) seconds. The console's LCD display will show the letters "AP" and an icon, indicating that it has entered Access Point (AP) mode. The console is now ready for Wi-Fi configuration.

- The flashing "AP" characters signify that the weather station is in AP mode.
- On a PC, open your Wi-Fi network settings. For Android or iOS devices, access the settings menu and select Connections/WI-FI to view the network settings.



- Locate the display console's SSID from the list, which should appear as WWS-XXXXXX (where each X represents an integer). Tap on the SSID to initiate the connection, which may take several seconds to complete.






WLAN

WWS_XXXXXX

- Once connected to the weather station via Wi-Fi, open the settings page at the IP address (<http://192.168.1.1>) to configure the Wi-Fi, Weather Underground, and Weather Cloud settings.

■ Wi-Fi Connection Status

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

 <p>Flashing The weather station is attempting to connect to your wireless router.</p>	 <p>Solid The weather station has been connected to your wireless router.</p>	 <p>Flashing The weather station is in AP mode.</p>
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■ Setting Up Weather Server Connection

Upon successfully connecting to the display console via Wi-Fi and accessing the settings page at <http://192.168.1.1>, please input the designated information into the web interface setup page. In case you have opted not to utilize the services of Weather Underground or Weathercloud, kindly ensure that the respective check boxes remain unselected.

Setting:

1. Web interface Logo
2. Select your Wi-Fi Router(SSID) from the list
3. Router's password
4. Check to confirm upload to Weather underground server
5. Enter Your underground ID
6. Enter Your underground Key/Password
7. Check to confirm upload to Weathercloud.net
8. Enter Your Weathercloud ID
9. Enter Your Weathercloud Key/Password
10. Time Zone Settings
11. DST on/off
12. Internet time sever
13. Press Save to confirm the settings

Note:

1. In AP mode, hold BARO/-/WIFI for 4 seconds to exit the AP mode. The display will simply restore the previous AP setting.
2. Time server URL: nist.time.gov

weather settings _____ 1

SETUP _____ ADVANCED _____

Wi-Fi network setup

Network: Financial _____ 2
Select the menu and choose your 2.4 GHz WIFI router, or type in your router's name (SSID) above.

Password: ***** _____ 3

Status: _____

Weather server setup

Upload wunderground.com _____ 4

ID: KKSHILLC18 _____ 5

Password: XXXXXXX _____ 6

Upload weatherCloud.net _____ 7

ID: 717dc079ef42ea _____ 8

Key: XXXXXXX _____ 9

Time Zone Setup

Time Zone: +8.00 _____ 10

Automatically adjust clock for Daylight Saving Time _____ 11

Internet Time Server Setup


Server: time.nist.gov _____ 12

13 _____ Save

■ Setting The Time Zone

To ensure that the time display is automatically synced to your specific time zone, navigate to the Time Server Setup section on the SETUP page and adjust the time zone accordingly (e.g. +0:00 for London). The default time zone is set to '0:00'.

Time Zone Setup

Time Zone . 

Automatically adjust clock for Daylight Saving Time

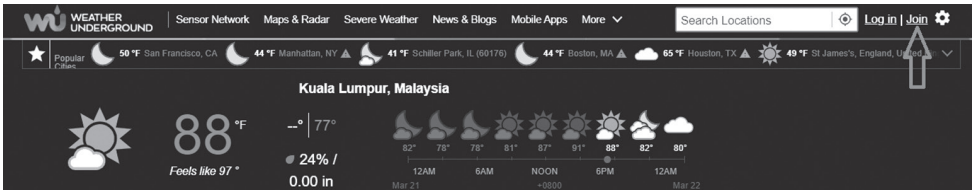
CREATE AND SYNC YOUR WEATHER SERVER ACCOUNT

The weather station is capable of uploading weather data to Weather Underground and/or Weather Cloud through your Wi-Fi Router.

■ Create Weather Underground Account

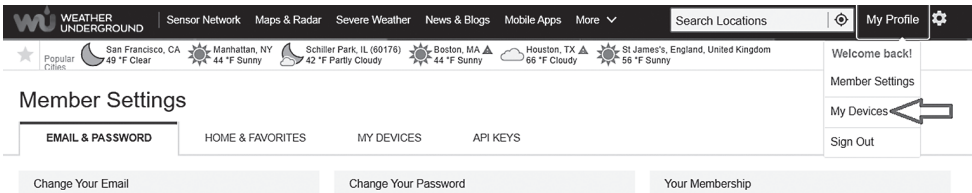
Note: VORSPRUNG does not own Weather Underground or Weathercloud. As a result, the instructions provided here may be subject to change without notice due to updates on either website.

1. Visit the Weather Underground website at <https://www.wunderground.com> and click on the JOIN link. Follow the on-screen instructions to create an account.



Important: Use a valid email address when registering your account.

Once your account has been created and the email validation process is complete, return to the Weather Underground website. Click on the dropdown link at the top of the site labeled My Profile, and then select My Devices from the dropdown menu. Click on "Add New Device" to add your weather station.



- Follow the on-screen instructions to input your weather station information. In Step 2, you will be prompted to enter a name for your weather station (feel free to be creative, but remember the name you chose!) and select your station hardware (choose “other”). After completing this section, click NEXT to generate your unique Station ID and key. When the status displays “online,” this indicates that your device has been successfully added.

Add a New Device

TYPE LOCATION DETAILS DONE

Select a Device Type

Personal Weather Station

other Next

Cancel

Add a New PWS

TYPE LOCATION DETAILS DONE

Registration Complete!

Congratulations! Your personal weather station is now registered with Weather Underground.

Enter the information below to your weather station software.

Your PWS

Station ID: KKSHILLC18

Station Key: S: J3G011

Copy credentials

View Devices

- Kindly document or capture a screenshot of your Station ID and Station Key/Password for future reference and to successfully complete the setup process.

■ Create Your Weather Cloud Account

- Please visit the Weather Cloud website at <https://www.weathercloud.net>, and provide the necessary information in the “Join Us Today” section. Follow the instructions to create an account.
Note: Please use a valid email address to register your account.
- After successfully creating your account, please sign in and click on “+New” to add a new device.
- Proceed to fill in the requested information on the “Create New Device” page.

weathercloud

Home Map Database Reports Plots

Your devices

You have no devices.

Create device

4. Provide your station's details, and then click on "Create."
Note: Fields marked with a red asterisk (*) are mandatory.

https://app.weathercloud.net/device/create

weathercloud Home Map Database Reports Plots

Create new device

← Back

Basic information

Name *

Model *

Link type *

Website

Description

Location

Country *

State / Province *

City *

Time zone *

Coordinates

Latitude *

Longitude *

Elevation m

Height m

Note: You may choose any model number and link type in the provided fields

5. It is recommended to document or capture a screenshot of your Weathercloud ID and Station Key/Password for future reference and to successfully complete the setup process.

Link device



The link details for your device **weather station** are provided below:

Weathercloud ID

7ff7dc0799ef42ea

Key

4d992c0002c09d4b009c0097d000717

VIEW YOUR WEATHER DATA

■ In Weather Underground

To view your weather station data, live via PC or mobile web browser, visit <http://www.wunderground.com>, and then enter the Station ID you were provided during account setup in the search box. Your weather data will show up on the next page. Alternately, you can log in to your Weather Underground account to view and download the recorded data from your weather station.

■ In Weathercloud

1. To view your weather station data, live via PC or mobile web browser, visit <http://www.weathercloud.net> and sign into the account which you created.
2. Click on the tab at the top of the page titled Devices.
3. Click on the Settings menu at the top right of the page, and select the option, View.
4. Click on either Current, Wind, Evolution, or Inside to view your weather station's data.

OPERATING INSTRUCTIONS

■ Power Up the Weather Station

When providing power to the weather station, the LCD will display the current version number, Version (US/EU) and the frequency. Then, it will turn on all LCD for 2s and enter to the normal mode and will automatically entering pairing mode.

■ Pairing the Wireless 7-in-1 Sensor and Indoor Sensor(s) (indoor sensors are not included with all of our products, so this section may not apply to you)

- The outdoor weather stations console should automatically search for and connect to the additional wireless sensor, if both are powered on within 10 minutes of each other.
- If the outdoor weather station does not connect within 10 minutes, unplug it and plug in the power again in order to re-enter pairing mode. Or press and hold **CHANNEL** 2s to start the manual pairing process.
- During the pairing process, an icon of antenna should be flashing on the Additional Sensors' CH/Outdoor temperature & humidity section of the display.
- Once the pairing process completes, the antenna icon will appear as solid, and the outdoor temperature, humidity, wind speed, wind direction, UV, light intensity and rainfall will appear in their designated sections of the LCD display.

■ Re-Pairing Sensors

If the connection fails, press and hold **CHANNEL** to enter pairing mode, the weather station will re-register all the sensors that have already been registered to it before. (i.e., the weather station will not lose the connection of the sensors that you have paired up before).

■ Pairing Additional Wireless Sensors

Press and hold **CHANNEL** to enter pairing mode and register new sensor(s) to pair to weather station.

■ Setting Time

- In normal clock mode, press and hold **SET** 2s to enter the setting mode.
- To exit the set mode at any time, press the **LIGHT/SNOOZE** button.
- Press **WIND/+** or **BARO/-/WIFI** to adjust the value up or down.
- Press **Set** key to confirm and jump to next setting.
- Setting procedure is following.














Beep On/Off → NTP On/Off → Language → Time Zone → DST On/Off → Date Format → Year → Month → Date → 12/24 hr → Hour → Minute → Temp Unit → Pressure Unit → Relative Pressure Calibration → Light Unit → Rain Unit → Wind Unit → Hemisphere → End of Set (return to normal mode).

NTP: Get internet time from NTP server of NIST.

■ Moon Phase

The weather station calculates the moon phase according to your time, data and time zone.

The table below explains the corresponding phases and their icons for both Northern and Southern hemispheres.

Nothern Hemisphere Icons	Moon Phase	Southern Hemisphere Icons
	New Moon	
	Waxing Crescent Moon	
	First Quarter Moon	
	Waxing Gibbous Moon	
	Full Moon	
	Waning Gibbous Moon	
	Third Quarter Moon	
	Waning Crescent Moon	

■ Alarm Mode

- In normal clock mode, press **SET** toggle to alarm mode.
- Press **TEMP/ALARM** to turn on/off alarm function. If alarm is set as on, the alarm bell icon will show on the display.
- In alarm mode, if no key is pressed for **10** seconds, it will auto switch to normal mode.

■ Alarm Time Setting

- In alarm mode, press and hold **SET** 2s to enter the alarm setting mode. To exit the alarm setting mode at any time, press the **LIGHT/SNOOZE** button.
- Setting procedure is following:
- Alarm hour → Alarm minute → end of alarm setting mode (return to alarm mode)
- Press **WIND/+** or **BARO/-/WIFI** to adjust the value up or down.
- Press **Set** key to confirm and jump to next setting.

■ Hi/Lo Alert Setting

- In normal mode, press and hold ALERT 2s to enter the alert setting mode. To exit the alert setting mode at any time, press the LIGHT/SNOOZE button.
- Press WIND/+ or BARO/-/WIFI to adjust the value up or down.
- Press ALERT to turn on/off the alert.
- Press ALERT to confirm and jump to next setting.
- Setting procedure is following:

**Indoor Hi Temp alert → **Indoor Low Temp alert → **Indoor Hi Humidity alert → **Indoor Low Humidity alert → Outdoor Hi Temp alert → Outdoor Low Temp alert → Outdoor Hi Humidity alert → Outdoor Low Humidity alert → High Wind Speed alert → High Wind Gust alert → Pressure Drop Alert → High Rain Rate alert → High Daily Rain alert → UV index High Alert → Light Intensity High Alert → end of alert setting.

Alert Setting	Setting Range	Display Section	Default
Indoor current Channel Temp Hi Alert	-9.9°C – 50°C (14.18°F – 122°F)	Indoor CH temperature & Humidity	50°C (122°F)
Indoor current Temp Lo Alert			-9.9°C (14.1°F)
Indoor current Humidity Hi Alert	1% – 99%		80%
Indoor current Humidity Lo Alert			40%
Outdoor Temp Hi Alert	-40°C – 70°C (-40°F – 158°F)	Outdoor temperature & Humidity	40°C (104°F)
Outdoor Temp Lo Alert			0°C (32°F)
Outdoor Humidity Hi Alert	1% – 99%		80%
Outdoor Humidity Lo Alert			40%
High Wind Speed Alert	0 – 50m/s 2 – 180 km/h 1 – 111mph 1 – 97 knots 0~60BFT	Wind Speed	17m/s 62km/h 38mph 33knots 20BFT
High Wind Gust alert	0 – 50m/s 2 – 180 km/h 1 – 111mph 1 – 97 knots 0~60BFT	Wind Speed	17m/s 62km/h 38mph 33knots 20BFT
Pressure Drop Alert	1 hpa – 10hpa 0.03~0.3 inHg 0.7~7.5mmHg	Barometer drop	3hpa 0.09inHg 2.2mmHg
High Rain Rate alert	1mm/hr – 1000mm/hr (0.03in/hr – 39.37 in/hr)	Rainfall Rate	101mm/hr (4 in/hr)
High Daily Rain alert	1mm – 1000mm (0.03 in – 39.37 in)	Rainfall Rate	101mm (4 in)
UV index High Alert	1 - 15	UV Index	10
Light Intensity High Alert	1Klux – 200.0 Klux 7~1580 W/M2 0~185 KFC	Light Intensity	100 Klux 790 W/M2 92 FC

■ Weather Index

In normal mode, press **TEMP/ALARM** to switch different weather indexes in the following order:

Feels Like → Heat Index → Wind Chill → Dew point → Outdoor temperature

Feels Like

The “Feels Like” temperature index represents the perceived outdoor temperature, taking into account contributing factors such as wind chill and heat index.

Wind Chill

Wind Chill is determined by a combination of the wireless weather sensor’s temperature and wind.

NOTE: Only when the temperature is below 50°F(10°C) and the wind speed is over 4.8km/h (3mph), will display the wind chill value, otherwise it will display “--.-“.

Heat Index

The Heat Index is determined by the wireless weather sensor’s temperature and humidity readings.

Dew Point

- The Dew Point refers to the specific temperature at which water vapor present in the air, under constant barometric pressure, transitions into a liquid state at an equal rate of evaporation. This process results in the formation of dew on solid surfaces.
- The Dew Point temperature is determined from the temperature and humidity data collected from the wireless weather sensor.

■ Rain

In normal mode, press **RAIN** to switch among

Rain Rate (in/hr) → Hour Rain → Daily rain → Week rain → Month rain → Total rain → Event

In normal mode, press and hold **RAIN** 2s.

Resetting the weekly rain also resets the daily rain

Resetting the monthly rain also resets the daily and weekly rain.

Resetting the total rain also resets the monthly, weekly and daily rain.



■ Pressure

In normal mode, press **BARO/-/WIFI** to review absolute and relative pressure.






■ Max/Min

- In normal mode, press **MAX/MIN** switching between maximum and minimum value.
- To clear the max value, press and hold **MAX/MIN** 2s while max values are displayed.
- To clear the min value, press and hold **MAX/MIN** 2s while min values are displayed.
- If no key is pressed for 10 seconds, it will auto switch to normal mode

■ Indoor Comfort Index

The indoor comfort displays a pictorial representation based on the indoor air temperature and humidity levels to determine the approximate comfort level.

			
Comfort	Dry	Wet	No Display
When temperature in 20 ~ 28°C, humidity 40 ~ 70%, it displays the comfortable icon.	When temperature in any value, humidity less than 40%, it displays Dry icon.	When temperature in any value, humidity is higher than 70%, it displays Wet icon.	When temperature out of 20 ~ 28°C, humidity in 40 ~ 70%, no icon is displayed.

■ Weather Forecast

- The built-in barometer notices atmospheric pressure changes, can predict the weather conditions in the forthcoming 12-24 hours, based on all the data it has collected.
- There are 6 weather icons – Sunny, Partly Cloudy, Cloudy, Rainy, Stormy and Snowy.



Sunny



Partly Cloudy



Cloudy



Rainy




Stormy



Snowy

■ Freezing Alert

When temperature received by outdoor sensor is lower than 1°C/33.8°F (excluding 1°C/33.8°F), the freezing symbol is  displayed.



■ Tendency Arrow

Tendency arrows allow you to quickly determine if the temperature, humidity has been rising or falling in the last one-hour update period (TBD). This is updated every hour.

Tendency Indicators	Condition	Temp Change per 1 hours	Humidity Change per 1 hours
↗	Rising	Rising > 3%	Rising > 1°C/2°F
→	Steady	Change ≤ ±3%	Change ≤ ±1°C/2°F
↘	Falling	Falling > 3%	Falling > 1°C/2°F

Tendency Indicators	Condition	Temp Change per 1 hours
↗	Rising	Rising > 2hpa/0.06inHg
→	Steady	Change ≤ ±2hpa/0.06inHg
↘	Falling	Falling > 2hpa/0.06inHg

■ Backlight

1. With AC Adaptor (not always included – dependent on product model)
 - The backlight can only be continuously on when the AC adaptor is permanently on. When the AC adaptor is disconnected, the backlight can be temporarily turned on.
 - Press **LIGHT/SNOOZE** to adjust the backlight brightness, High, Low and Off.
2. With battery only
 - Press **LIGHT/SNOOZE** temporarily turn on the backlight for 15 seconds.
 - To reduce power consumption, the weather station will automatically enter sleep mode, when only battery power, and will NOT send data to the Internet whilst in this mode.
 - Wi-Fi can't be connected if battery power only.

SPECIFICATION

General Specification	
Receiver Dimensions (W x H x D)	191.6x127x28.8mm (7.54" x 5" x 1.13")
Transmitter Dimensions (W x H x D):	408x350x 367mm (16.06" x 13.78" x 14.45")
Weight	approx. 1180g (2.60LBS)
Power supply	
Receiver	1.5M USB Cable, 3 x AAA batteries (backup power, not included)
Transmitter	3 x AA battery (not included), Solar power (backup power)
Indoor operation temp	-9.9°C – 50°C (14.18°F – 122°F)
Wireless Sensor Communication Specifications	
RF frequency	868MHz
Modulation method	FSK
RF transmission range	150m (open area)
Time Function Specifications	
Time display	HH: MM
Hour format	12 hour or 24 hour
Date display	DD/MM or MM/DD
Time synchronization method	Synchronizes with UTC clock via internet time server
Weekday languages	EN / DE / FR / ES / IT / NL / RU / DU
Time zones	GMT +12 ~ GMT -12
DST	AUTO/ OFF
Barometer Display & Function Specifications	
Barometer units	hPa, inHg and mmHg
Measuring range	600 – 1100 hPa (relative setting range 930 – 1050hPa)
Accuracy	600 –1100 hPa ± 5 hPa 17.7inHg~32.48inHg± 0.15 inHg 450 – 825 mmHg± 3.8 mmHg Typical at 25°C (77°F)
Resolution	1hPa/ 0.01inHg/ 0.1mmHg
Weather forecast	Sunny, Partly Cloudy, Cloudy, Rainy, Stormy and Snowy
Display mode	Current
Memory mode	Daily Max/ Min
Alert	Pressure change alert

Indoor/Outdoor Temperature Display & Function Specifications

Temperature unit	°C and °F
In Door Display range	-9.9°C – 50°C (-14.1°F – 122°F)
Out Door Display range	-40°C – 70°C (-40°F – 158°F)
Temp accuracy	10 – 50°C ±1°C / 50 – 122°F ±1.8°F -20 – 10°C ±1.5°C / -4 – 50°F ±2.7°F others : ±2°C / ±3.6°F
Resolution	0.1°C / 0.1°F
Display mode	Current
Memory mode	Daily Max / Min
Alert	High/Low temperature alert

Indoor/Outdoor Humidity Display & Function Specifications

Display range	%
In/Outdoor accuracy	40 – 80% RH ± 5% RH @25°C (77°F) Others : ± 8% RH @25°C (77°F)
Resolution	1%
Display mode	Current
Memory mode	Daily Max / Min
Alert	High/Low humidity alert

Wind Speed and Direction Display & Function Specifications

Wind Speed unit	mph, m/s, km/h, knots
Display range	0 -112mph, 50m/s, 180km/h, 97 knots
Resolution	0.1mph, 0.1m/s, 0.1km/h, 0.1knots
Speed accuracy	<5m/s: ±0.5m/s, >5m/s : ±6% (whichever is greater)
Display mode	Gust/Average
Memory mode	Daily Gust/Average
Alert	High Wind Speed Alert (Gust/Average)
Wind direction	16 directions

Rain Display & Function Specifications

Unit of rainfall	mm, in
Range of rainfall	0 – 12999mm (0 – 511.7 in)
Accuracy of rainfall	±7%
Resolution	0.01 in (0.254mm)
Display mode	Current
Memory mode	Daily Max.
Rainfall display mode	Hourly/ Daily/ Weekly/ Monthly/ Total Rainfall
Alert	High Daily Rainfall alert

UV Index Display & Function Specifications

Display range	0 - 15
Accuracy	±1
Resolution	1
Display mode	Current
Memory mode	Daily Max.
Alert	High UVI alert

Light Intensity Display & Function Specifications

Light Intensity unit	Klux, Kfc and W/m ²
Display range	0 – 200 Klux
Resolution	0.01 Klux, 0.01 Kfc and 0.01 W/m ²
Display mode	Current
Memory mode	Daily Max.
Alert	High Light intensity alert



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