

2. Press the WIND button again to return to normal display mode.
3. Press the WIND button while in normal operating mode to switch between AVERAGE and GUST wind speeds.

Wind Speed Level Chart

Level	Light	Moderate	Strong	Storm
Speed	0.1~11.8 mph	12~30.4 mph	31~54.7 mph	>55 mph

WEATHER INDEXES

When reading the Weather Index display, you can press the INDEX button to cycle through different weather indexes in the following order: **Feels Like > Heat Index > Wind Chill > Dewpoint.**

Feels Like

The Feels Like temperature index determines what temperature it actually feels like outside, taking into account factors like wind chill and the heat index.

Wind Chill

Wind chill is determined by a combination of the wireless weather sensor's temperature and wind speed data.

Heat Index

The heat index is determined by the wireless weather sensor's temperature and humidity readings when the temperature outdoors is between 80°F (27°C) and 120°F (50°C).

Heat Index range	Warning	Explanation
80°F to 90°F (27°C to 32°C)	Caution	Possibility of heat exhaustion
91°F to 105°F (33°C to 40°C)	Extreme Caution	Possibility of heat dehydration
106°F to 129°F (41°C to 54°C)	Danger	Heat exhaustion likely
≥ 130°F (≥ 55°C)	Extreme Danger	Strong risk of dehydration / sun stroke

Dew Point

- The dew point is the temperature below which the water vapor in air at constant barometric pressure condenses into liquid water at the same rate at which it evaporates. The condensed water is called dew when it forms on a solid surface.
- The dew point temperature is determined by the temperature and humidity data from the wireless weather sensor.

WEATHER FORECAST

The built-in barometer can notice atmospheric pressure changes, and based on the data collected, can predict the weather conditions in the forthcoming 12-24 hours within a 19 ~ 31 mile (30 ~ 50 km) radius.

					
Sunny	Partly cloudy	Cloudy	Rainy	Rainy / Stormy	Snowy

NOTE:

- The accuracy of a general pressure-based forecast is about 70% - 75%. Forecasts are not guaranteed.
- The forecast section reflects a general prediction for the next roughly 12 ~ 24 hours. It may not necessarily reflect the current situation.
- The SNOWY weather forecast is not based on the atmospheric pressure, but based on the current temperature reading from that wireless sensor. When the outdoor temperature is below ~ 26°F (-3°C), the SNOWY weather indicator will be shown on the LCD display.

BAROMETRIC PRESSURE



The atmospheric pressure is the pressure at any location on Earth caused by the weight of the column of air directly above that location. The average pressure gradually decreases as the altitude increases. Meteorologists use barometers to measure atmospheric pressure. Since variation in atmospheric pressure can be greatly affected by the weather, it is possible to forecast the weather by measuring these changes in pressure.

Set Barometer Units

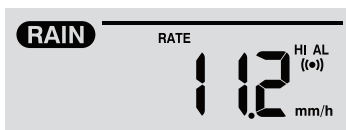
1. In normal operating mode, press the **BARO UNIT** button to cycle through options for the barometer units of measure in the following order: **hPa > inHg > mmHg**.
2. While in normal operating mode, press and hold the **BARO** button to switch between **ABSOLUTE** and **RELATIVE** barometric pressure displays.

TO VIEW THE ABSOLUTE / RELATIVE BAROMETRIC READING

In normal mode, press **BARO** button to switch between **ABSOLUTE / RELATIVE** barometric reading.

Absolute	The absolute atmospheric pressure of your location
Relative	The relative atmospheric pressure based on the sea level

RAINFALL



The Rainfall shows information regarding the rainfall and rain rate.

Set the Rainfall Units

1. Press and hold the RAIN button for two (2) seconds to enter unit setting mode.
2. Press the ▲ or ▼ buttons to toggle the units of measure for rainfall between mm and in.
3. Press the RAIN button again to save and exit the setting mode.

Select the Rainfall Display Mode

Press the RAIN button to toggle between:

1. HOURLY: total rainfall in the past hour
2. DAILY: total rainfall since midnight
3. WEEKLY: total rainfall for the current week
4. MONTHLY: total rainfall since the beginning of the current month
5. RATE: current rainfall rate in the past hour (updates every 24 seconds)
6. ACCUMULATION: total rainfall since the last reset (will show the record start date on the display for five seconds)

Reset the Accumulating Rainfall Record

While in normal operating mode, press and hold the °C/°F button for two (2) seconds to reset the ACCUMULATION rainfall record.

NOTE:

- To ensure precise data, please reset the ACCUMULATION rainfall record whenever you move and reinstall your wireless weather sensor to a different location.

MAX/MIN DATA RECORD

The display console can record the accumulated and daily MAX/MIN weather data with a corresponding time stamp for you to review.

TO VIEW THE ACCUMULATED MAX / MIN

While in normal operating mode, press the MAX/MIN button to cycle through the MAX/MIN records. Records are displayed in the following order:

Indoor* MAX temperature > indoor* MIN temperature > indoor* MAX humidity > indoor* MIN humidity > outdoor MAX temperature > outdoor MIN temperature > outdoor MAX humidity > outdoor MIN humidity > MAX average wind speed > MAX gust > MAX relative pressure > MIN relative pressure > MAX absolute pressure > MIN absolute pressure > MAX feels like temperature > MIN feels like temperature > MAX heat index > MIN heat index > MAX wind chill > MIN wind chill > MAX dew point > MIN dew point > MAX rainfall

* or current display channel sensor

Reset the Accumulated MAX/MIN Records

Press and hold the MAX/MIN button for two (2) seconds to reset the MAX/MIN records of the specific weather display section.

History Data for Past 24 Hours

The display console automatically stores the weather data from the past 24 hours.

- 1. Press the HISTORY button to check the beginning of the current hour’s weather data, e.g., if the current time is 7:25 AM on Dec 1st, the display will show the data for 7:00 AM on Dec 1st.
- 2. Press the HISTORY button to view the older readings for each hour of the past 24 hours, e.g. 6:00 AM (Dec 1st), 5:00 AM (Dec 1st), ..., 10:00 AM (Nov 30th), 9:00 AM (Nov 30th), 8:00 AM (Nov 30th).

NOTE: The LCD display will also show the History icon, along with the time and date, when displaying the history data records.

WEATHER ALERT SETTINGS

The Weather Alert can alert you to certain weather conditions by activating an alarm sound and flashing the LCD display’s alert icon when specific criteria are met.

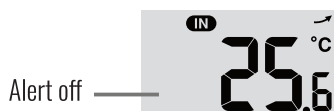
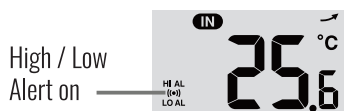
To Set the Alert

- 1. Press the ALERT button to cycle through and display the desired weather alert options in the following order:

Alert Option Sequence	Setting Range	Display Section	Default Setting
High Outdoor Temperature Alert (current channel)	-40°F ~ 176°F (-40°C ~ 80°C)	Outdoor temperature & humidity	104°F (40°C)
Low Outdoor Temperature Alert (current channel)			32°F (0°C)
High Outdoor Humidity Alert	1% ~ 99%		80%
Low Outdoor Humidity Alert			40%
High Indoor Temperature Alert	-40°F ~ 176°F (-40°C ~ 80°C)	Indoor temperature & humidity	104°F (40°C)
Low Indoor Temperature Alert			32°F (0°C)
High Indoor Humidity Alert	1% ~ 99%		80%
Low Indoor Humidity Alert			40%

Wind Speed Alert	0.1 m/s ~ 50 m/s (0.1 ~ 180 km/h 0.1 ~ 112 mph 0.1 ~ 97 knots)	Wind direction & speed	17.2 m/s (62 km/h 39 mph 34 knots)
Pressure Drop Alert	1hPa ~ 10hPa	Barometer & Rainfall	3hPa
Hourly Rainfall Alert	0.04 in ~ 39 in (1 mm ~ 1000 mm)		4 in (100 mm)

2. While on the alert option you want to set, press and hold the ALERT button for two (2) seconds to enter that alert's settings mode. The alert option will start flashing.
3. Press the ▲ or ▼ buttons to adjust the value, or press and hold the buttons to adjust the value more quickly.
4. Press the ALERT button when the desired value is reached to save the alert setting, then press the ALARM button to toggle the weather alert on or off.



5. Press any button on the front of the display console to save and return to normal mode, or wait 30 seconds without pressing any buttons and the alert will save itself and return to normal mode.

To Silence the Weather Alert Alarm

Press the SNOOZE/LIGHT button on top of the display console to silence the alarm, or it will automatically turn off after two (2) minutes.

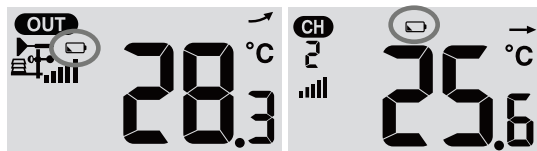
NOTES:

- Once the alert is triggered, the alarm will sound for two (2) minutes and the associated alert icon and weather readings will flash.
- If the alert alarm automatically shuts off after two (2) minutes instead of being manually shut off, the associated alert icon and readings will continue flashing until the reading is out of the alert range.
- The weather alert alarm will go off once the readings fall into alert range again.

■ CARE AND MAINTENANCE

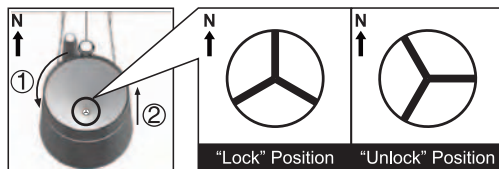
BATTERY REPLACEMENT

If the low battery indicator icon is displayed in the outdoor temperature and humidity section or the corresponding CH section of the LCD console display, this indicates that the batteries in your wireless weather sensor are running low and should be replaced. Make sure to replace all batteries at the same time.



CLEANING THE RAIN COLLECTOR

1. Rotate the rain collector by 30° counter-clockwise until it is in the unlock position as shown.



2. Gently remove the rain collector.
3. Clean and remove any debris or insects.
4. Wait until the parts are fully dry, and then reinstall them, and return the rain collector to a locked position.

CLEANING THE THERMO/HYGRO SENSOR

1. Unscrew the 2 screws at the bottom of the sensor casing.
2. Gently pull out the shield.
3. Carefully remove any dirt or insects inside the sensor casing, making sure the inside sensors remain dry.
4. Clean the shield with water and remove any dirt or insects.
5. Once the parts are fully clean and dry, reinstall them and replace the screws.

SPECIFICATIONS

DISPLAY CONSOLE

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DISPLAY CONSOLE	
General Specifications	
Dimensions (W x H x D)	5.4" x 6.6" x 1" (117 x 189 x 31mm)
Weight	0.82 lb. (370g) with batteries
Power source	DC 5V, 1A adaptor
Backup battery	CR2032, 3V battery
Operating temperature range	23°F ~ 122°F (-5°C ~ 50°C)
Wi-Fi® Communication Specifications	
Wi-Fi standard	802.11 b/g/n
Wi-Fi operating frequency	2.4GHz
Router security type	WPA/WPA2, OPEN, WEP (WEP will only support a hexadecimal password)
Supported devices for setup UI	Smart devices, tablets, laptops, or PCs with built-in Wi-Fi® and AP mode functionality such as: Android™ phone or tablet, iPhone or iPad, or a Windows® laptop/PC
Recommended web browser version	Latest version of any web browser that supports HTML 5
Wireless Sensor Communication Specifications	
Supported sensors	1 Wireless 5-in-1 weather outdoor sensor and up to 7 optional wireless hygro-thermo outdoor sensors
RF frequency	868 MHz (EU or UK version), 915 MHz (US version), 917 MHz (AU version)
RF transmission range	492 ft (150m)
Time Function Specifications	
Time display	HH: MM: SS
Hour format	12 hour or 24 hour
Date display	DD / MM or MM / DD
Time synchronization method	Synchronizes with UTC clock through internet time server
Weekday languages	EN / DE / FR / ES / IT / NL / RU
Time zones	GMT +13 ~ GMT -12
DST	ON / OFF
Barometer Display & Function Specifications	
Note: The following details are listed as they are displayed or operate on the console.	
Barometer units	hPa, inHg, and mmHg
Measuring range	540 ~ 1100 hPa (relative setting range 930 ~ 1050 hPa)
Accuracy	(700 ~ 1100 hPa ± 5 hPa) / (540 ~ 696 hPa ± 8 hPa) (20.67 ~ 32.48 inHg ± 0.15 inHg) / (15.95 ~ 20.55 inHg ± 0.24 inHg) (525 ~ 825mmHg ± 3.8mmHg) / (405 ~ 522 mmHg ± 6 mmHg) Typical at 77°F (25°C)
Resolution	1hPa / 0.01inHg / 0.1mmHg
Weather forecast	Sunny, Partly Cloudy, Cloudy, Rainy, Stormy and Snowy
Display modes	Current
Memory modes	Historical data of past 24 hours, daily Max / Min
Alarm	Pressure change alert