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INTRODUCTION

Thank you for selecting Wi-fi weather station with 6-in-1 professional sensor. This system gathers and automatically uploads accurate and detailed weather data to Weather Underground website - the famous weather service which allows weather observers to upload their local weather data with automated personal weather stations (PWS) - at which you can access and upload your weather data freely. This product offers professional weather observers or serious weather enthusiasts robust performance with a wide range of options and sensors. You will get your own local forecast, high/lows, totals or averages and graphs for virtually all weather variables without using a PC.

Wi-fi Weather Station includes a 6-in-1 wireless sensor which transmits outdoor temperature, humidity, wind speed, wind direction, rainfall and UV with solar power. Also, the included wireless indoor sensor, which can add to a sensor array of maximum 7 units, transmits your indoor temperature & humidity to the console. Both sensors are fully assembled and calibrated for your easy installation. They send data at a low power radio frequency to the console from up to 150m/450 feet away (line of sight).

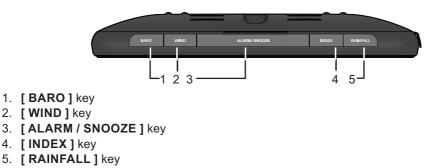
In the main console, a high-speed processor is embedded to analyze the received weather data and these real-time data can be published to <u>Wunderground.com</u> through your home Wi-fi router. The console can also synchronize with internet time server to keep the time and weather data time stamp of high precision. The wide-viewing-angled with high-contrasted LCD display shows informative weather readings with advanced features, such as high/low alert alarm, different weather index, multi-functional bar chart and MAX/MIN records. With the built-in sunrise/sunset and moon phase feature, this system is truly a remarkably personal yet professional weather station for your own backyard.

Note:

This instruction manual contains useful information on the proper use and care of this product. Please read this manual through to fully understand and enjoy its features, and keep it handy for future use.

OVERVIEW

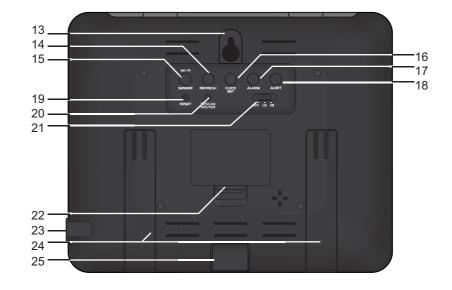
MAIN CONSOLE





- 6. LCD display
- 7. [GRAPH / Λ] key
- 8. [°F/°C/V] key
- 9. [HISTORY] key

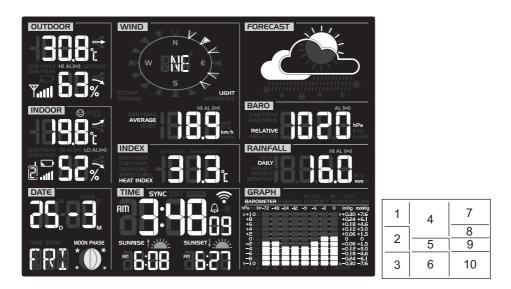
10. **[MAX / MIN]** key 11. **[CHANNEL]** key 12. Status LED



13. Wall mounting holder 14. [REFRESH] key 15. [Wi-fi / SENSOR] key 16. [CLOCK SET] key 17. [ALARM] key

- 18. [ALERT] key
- 19. [RESET] key 20. [RESCAN ROUTER]
- key
- 21. Backlight dimmer sliding switch (Off / Lo / Hi)
- 22. Battery compartment
- 23. USB socket (for firmware
- update only)
- 24. Table stand
- 25. Power jack

LCD DISPLAY



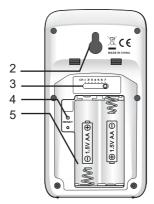
- 1. Outdoor temperature & humidity
- 2. Indoor temperature & humidity
- 3. Calendar & moon phase
- 4. Wind direction & speed
- 5. Weather index

- 6. Time, sunrise/sunset & system status
- 7. Weather forecast
- 8. Barometer
- 9. Rainfall
- 10. Multi-function historical bar chart

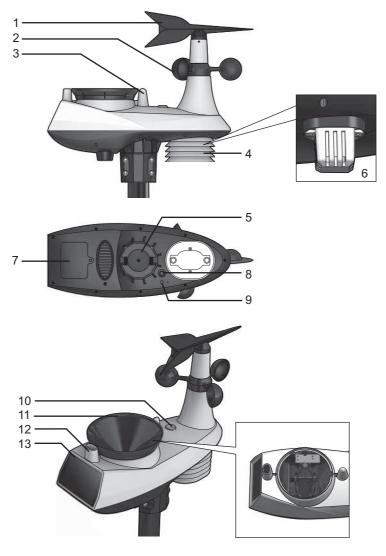
WIRELESS HYGRO-THERMO INDOOR SENSOR



- 1. Transmission status LED
- 2. Wall mounting holder
- 3. Channel slide switch



- 4. [RESET] key
- 5. Battery compartment



- 1. Wind vane
- 2. Wind cups
- 3. Antenna
- 4. Radiation shield
- 5. Pole mount hole (fit for 35 ~40mm diameter pole)
- 6. Hygro-thermo sensor

- 7. Battery door
- 8. [RESET] key
- 9. Transmission status LED
- 10. Level gradienter
- 11. Rain collector
- 12. UV sensor
- 13. Solar panel

INSTALLATION AND SETUP

WIRELESS INDOOR SENSOR

Pairing the wireless Indoor sensor with the console

- 1. Remove the battery door of the sensor.
- 2. Insert 2 x AA size batteries into the battery compartment. Make sure you insert them the right way according to the polarity information marked on the battery compartment.
- 3. Close the battery door. The transmission status LED will begin to flash every 1 minute.

Note:

- If you need to re-assign the sensor channel, firstly slide the channel slide switch to the new channel that you decided, then press [SENSOR] key on the console, and then press [RESET] key on the sensor to pair the sensor with the console again.
- Avoid placing the sensors in direct sunlight, rain or snow.
- To avoid the sensor/s and console pairing failure during new console setup, please power up the sensor/s first, and then press [RESET] key on the main unit (no need on sensors).

Placing the wireless Indoor sensor

Place a screw on the wall that you wish to hang the sensor on. Hang the sensor onto the screw by the wall mounting holder. You can also place the sensor on a table by itself.



WIRELESS 6-IN-1 SENSOR

Your wireless 6-IN-1 sensor measures wind-speed, wind-direction, rainfall, UV index, temperature and humidity for you.

Pairing the wireless 6-IN-1 sensor with the console



- 1. Unscrew the battery door at the bottom of the unit and insert the batteries according to the polarity information marked on the battery compartment.
- 3. Once the batteries are installed, the transmission status LED will begin to flash.
- Ensure the battery door screw locked well.
- Ensure the transmission status LED is flashing every 12 seconds.

Placing the wireless 6-IN-1sensor

Install the wireless 6-IN-1 sensor to an open location with no obstructions above and around the sensor for accurate rain and wind measurement. Install the sensor with the wind meter end facing North and properly orient the wind direction vane. Secure the mounting stand and bracket (included) to a post or pole, and allow minimum 1.5m off the ground.

Mounting guideline

- 1. Install the sensor at least 1.5m off the ground for better and more accurate wind measurements.
- 2. Choose an open area within 150 meters from the main console.
- 3. Install the sensor as level as possible to achieve accurate rain and wind measurements. Use the level indicator on the sensor to ensure a level installation.
- 4. Mount the sensor with the wind meter end pointing to North to correctly orient the direction of the wind vane.



MAIN CONSOLE

Backup battery installation

- 1. Remove the battery door of the main console.
- 2. Insert 3 new AAA batteries.
- 3. Close the battery door.

Powering up the console

- 1. Plug the adaptor into the DC jack.
- 2. Press [RESET] key to re-start the console.
- 3. After reset, all LCD segments will show. The console will enter AP (access point) mode and the status LED will turn on green.

The Console status LED can show the following status:



Status	LED status
AP mode for setup	Flash green light
Connected to Wi-fi router	Blue light
Search the Wi-fi router and fail connection	Flash blue light
Firmware update	Flash red light
Manual sensor pairing mode by pressing [Wi-fi / SENSOR] key	Flash cyan light
Refresh the upload data and sync internet time by press [Refresh] key	Flash purple

Note:

This console has a dual backup system which allows you to backup different settings and history records.

Backup item list		
By battery backup	 Time & Date Max/Min records Alert setting values 	 Bar chart records Past 24 hours weather history data records
By built-in memory backup	 Router setting Weather server setting Time server link 	 Latitude and longitude Time Zone offset Channel history

Setting the console's time zone

This weather station console will synchronize the clock with the UTC time server once you set the time server and connected to the internet. In order to display the correct time and activate the sunrise/sunset function, you need to set the correct time zone:

- 1. Press and hold [CLOCK SET] key for 2 seconds to enter time zone setting in time setting mode.
- 2. Press $[\Lambda]$ or [V] key to select the correct time zone.
- 3. Press [CLOCK SET] key again to enter the next setting.
- 4. The setting sequence: Time zone \rightarrow DST ON/OFF \rightarrow Hour \rightarrow Minute \rightarrow Second \rightarrow 12/24 hour format \rightarrow Year \rightarrow Month \rightarrow Date \rightarrow M-D/D-M format \rightarrow TIME SYNC ON/OFF \rightarrow Language
- 5. Press [CLOCK SET] key to save and exit the setting mode, or the unit will automatically exit the setting mode 60 seconds later without pressing any button.

Pairing the wireless indoor and 6-IN-1 sensors with the console

The console will automatically search and connect to your wireless indoor and 6-IN-1 sensor. You can also press **[Wi-fi / SENSOR]** key to search for your sensors manually. Once your sensors pair up successful, the sensor signal strength indication and weather information will appear on your console display.

Note:

The status LED will flash cyan light, once you press [Wi-fi / SENSOR] key to search the sensors manually.

CREATE A WUNDERGROUND ACCOUNT AND SETUP WI-FI CONNECTION

A. Register your Wi-fi personal weather station (PWS)

1. In <u>https://www.wunderground.com</u> click on the "Join" button on the top right corner to open the registration page. Follow the instructions to create your account.



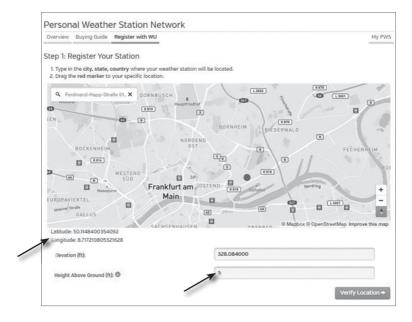
Note:

You need to validate your email address before you can register your weather station. Click "Send Validation Email" to receive an email from <u>wunderground.com</u> that contains a validation link. Click on the link to finish the validation.

2. After you have created your account and completed the Email validation, please go back to the WUndergound web page. Click "**I**" button on the top right corner to open the drop-down menu and select "*Add Weather Station*" to create your station ID.



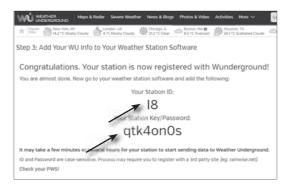
3. Pin the location on the map. Enter the height above ground of the wireless 6-IN-1 sensor you installed. Jot down the longitude/latitude value for the further setup step.



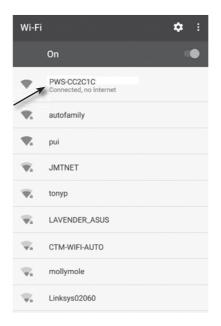
4. Enter a name for your PWS, then choose "Other" for "Station Hardware". Once you have completed, click "Submit".

✓ Your Location Has Been Adde	:d
Address: , Frankfurt, 60323, DE Elevation: 328.084000 ft Height Above Ground: 5 ft Lat, Lon: 50.1148400354092, 8.717210805321628 Time Zone:	
We could not find your Time Zone, please select on	e from the list above to continue
Fill out the additional information about your w	eather station:
Neighborhood: (required)	Organization:
WF PWS	
Website:	MADIS ID:
name	MADIS ID: 0
URL	
Station Hardware: (required)	Surface Type:
other 🗸	rooftop (composite-shingles)
Associated WebCam:	
~	
PWS Notification Email Preferences:	
I would like to receive PWS notifications	
I would like to receive PWS community newslet	ter O
I would like to receive PWS community newsiet	

5. Jot down Your Station ID and Station key for the further setup step.



- B. Setup the Wi-fi Console to transmit weather data to wunderground.com
- When you plug the adaptor into the DC jack to power up the Wi-fi console during the first time start up, or press and hold the [Wi-Fi / SENSOR] key for 6 seconds in normal mode, the Status LED on the main console will flash green light to signify that it has entered into the AP mode, in which the console is ready for the Wi-fi setup.
- 2. Use your Wi-fi enabled smart phone or computer device to directly connect to the console's SSID: *PWS-XXXXXX*.



3. Once connect, open the internet browser and enter <u>192.168.1.1</u> into the URL blank, then press the *Enter* key to access the console's setup interface.

Note:

- Since different web browsers are slightly different, please make sure you enter the <u>192.168.1.1</u> in the URL blank.

4. Fill in the connection information for the setup interface. Your PWS will base on this information to connect the Wi-fi router.

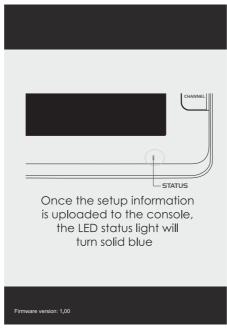
	Language: English	2
奈 WiFi Router setup		_
Router: RO	OUTER_A	Select the Wi-fi router (SSID) you will connect to
Add Router		—— Manually enter the SSID if it is not on the list
Security type: W	AP2	Select router's security type (usually WAP2)
Router Password:	a.	Enter your router password
Weather server setup		
Web server URL: rtu	update.wunderground.com	Enter the "Station ID" assigned by
Station ID:		Wunderground
Station key:	я	
Time server setup		Enter the "Station key" assigned by
Server URL: nis	st.time.gov	
Location setup		
Latitude: 0.0	00 North	Select the direction (e.g. EU countries Longitude
Longitude: 0.0	00 — East 🔹	is East and US is West)
Firmware version: 1.00	Apply	

L Enter the latitude and longitude with 3 decimal places

Note:

- Depending on your web browser, the layout of the setup interface will be a bit different.
- To find your latitude and longitude, visit Google Maps and directly click on the location that you want to check and the latitude and longitude will be shown (negative value of latitude represents South, negative value of longitude represents West).

5. Click "*Apply*" to finish the setup. If all the information you entered is correct, the setup interface will show as the following. If it does not change, check and fill in the missing information.



Once the setup is completed, the Wi-fi console will disconnect the Wi-fi connection with your smart phone or computer and start to search for the router that you have assigned. If the connection is successful, the status LED of the Wi-fi console will change to blue and the Wi-fi icon row will show on the LCD without flashing.

Wi-fi	setup	device	requirements
-------	-------	--------	--------------

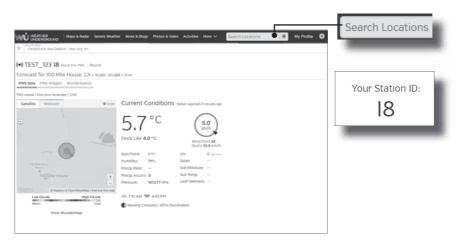
Supported device	Built-in Wi-fi with AP mode function smart devices, laptops or PCs: Android smartphone, Android pad, iPhone, iPad or Windows laptop
Wi-fi standard	802.11 b/g/n, supports AP mode
Web browser	Browsers that support HTML 5, such as the latest version of Chrome, Safari, IE, Edge, Firefox or Opera

Router requirements

Wi-fi standard	802.11 b/g/n
Security type supported	WEP/ WPA / WPA2 / open (for routers with no password)

VIEWING LIVE WEATHER DATA

1. To view the wireless 6-IN-1 sensor's live data in a web browser (PC or mobile version), please visit <u>www.wunderground.com</u>, and then, In the menu bar, enter your "station ID" in the searching box. The weather information will show up on the next page.



2. You can also use the Apple ipad's "WunderStation" app to login your own weather station and view your CH 1 wireless Indoor sensor's temperature and humidity live data.



OPERATION AND OTHER SETTING OF THE CONSOLE

TIME & DATE, MOON PHASE, SUNRISE & SUNSET

The *TIME* and *DATE* information windows locate at the bottom left of the console display. You can view all the time related information and console status in these two sections.



Moon Phase

The moon phase is determined by the time, date and time zone. The following table explains the moon phase icons of the Northern and Southern hemispheres. Please refer to **ORIENTING THE 6-IN-1 SENSOR TOWARDS SOUTH** section about how to setup for the Southern hemispheres.

Northern hemisphere	Moon Phase	Southern hemisphere
****	New Moon	****
*)*	Waxing Crescent	*••*
* D *	First quarter	*
* () *	Waxing Gibbous	*
*•**	Full Moon	*••*
*	Waxing Gibbous	* D *
0	Third quarter	* D *
••	Waxing Crescent	* 0*

Sunrise & Sunset Time

The console indicates your location's sunrise & sunset time by the time zone, latitude and longitude you entered. Please insert the correct information in the regarding settings. If the latitude and longitude values do not match the time zone, the sunrise & sunset time cannot be shown.



Wi-fi CONNECTION STATUS

As soon as the console successfully connects to the Wi-fi router, the Wi-fi signal icon " a" will appear on the LCD display. 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 cannot connect to the Wi-fi router or enter the AP mode.

TIME SERVER CONNECTION STATUS

After the console has connected to the internet, it will attempt to connect to the internet time server to obtain the UTC time. Once the connection succeeds and the console's time has been updated, the "**SYNC**" icon will appear on the LCD. The time will automatically synchronize Internet time server at 12:00AM and 12:00PM per day. Also you can press the **[REFRESH]** key to get the internet time manually within 1 minute.

SETTING DATE & TIME

Wi-fi Weather Station is designed to obtain the local time from and to synchronize with the assigned internet time server. If you want to use this device offline, you can set the time and date manually.

- 1. In normal mode, press and hold [CLOCK SET] key for 2 seconds to enter date and time setting mode.
- Press [GRAPH / A] or [°F / °C / V] key to adjust the value, or press and hold to change rapidly.
- 3. While in date and time setting mode, press [CLOCK SET] key to switch to the next setting.
- 4. The setting sequence is: Time Zone \rightarrow DST ON/OFF \rightarrow Hour \rightarrow Minute \rightarrow Second \rightarrow 12/24Hr \rightarrow Year \rightarrow Month \rightarrow Day \rightarrow M-D/D-M \rightarrow Internet time sync ON/OFF \rightarrow Language
- 5. After completing the language setting, press [CLOCK SET] key to save and exit the setting mode.

TIME ZONE setting	TIME ZONE MOON PHASE $* \bullet * \bullet * \bullet * \bullet * \bullet \bullet$
DST ON/OFF setting	
Hour > Minute > Second setting	
12/24Hr setting	
Year > Month > Day setting	
M-D/D-M setting	Month-Day / Date Day-Month
Internet time sync	$\begin{tabular}{ c c c c c } \hline Language & $$IMCONPLASE$ $$EN \leftrightarrow FR \leftrightarrow DE \leftrightarrow ES \leftrightarrow$ $$IT \leftrightarrow NL \leftrightarrow RU \leftrightarrow EN$ $$IT \mapsto NL \leftrightarrow RU \leftrightarrow EN$ $$$

SETTING ALARM TIME

- 1. In normal time mode, press and hold **[ALARM]** key for 2 seconds until the alarm hour digit flashes to enter alarm time setting mode.
- Press [GRAPH / A] or [°F / °C / V] key to adjust the value, or press and hold to change rapidly.
- 3. The setting sequence is: Hour \rightarrow Minute.
- 4. After completing the minute setting, press [ALARM] key to save and exit the setting mode.

Note:

- The alarm will automatically be turned on with the icon " 📮 " displays after you set the alarm time.
- Press [ALARM / SNOOZE] key to stop the current alarm and enter snooze. The alarm icon will flash continuously. The alarm will sound again after 5 minutes. Snooze can be operated continuously in 24 hours.
- When the alarm sounds, it will stop automatically without pressing any button in 2 minutes. Also, you can press and hold the **[ALARM / SNOOZE]** key for 2 seconds or press **[ALARM]** key to stop the current alarm. The alarm will repeat in the next day.

ACTIVATING ALARM AND TEMPERATURE PRE-ALARM FUNCTION

- 1. In normal mode, press [ALARM] key to show the alarm time for 5 seconds.
- 2. When the alarm time displays, press **[ALARM]** key again to activate the alarm function. **Or** press **[ALARM]** key twice to activate the alarm with ice pre-alarm function.

\$ ₩	\$ ₩	\$ ₩
Alarm off	Alarm on	Alarm with ice-alert

Note:

Once the ice pre alert activates, the preset alarm will sound 30 minutes earlier if the outdoor temperature is below -3°C.

INDOOR AND OUTDOOR TEMPERATURE & HUMIDITY

You can view the in/outdoor channels' temperature & humidity readings and the related information at the top-left or middle left column of the LCD.

Note:

In normal mode, press [°F / °C / V] key to switch between °C/°F.

The OUTDOOR Window

The OUTDOOR window displays the thermo-hygro readings of wireless 6-in-1 sensor.



Wireless 6-IN-1 sensor signal strength:



Note: Please locate the console where can receive good sensor signal.

The INDOOR Window

The INDOOR window displays the thermo-hygro reading of wireless indoor thermo-hygro sensor(s) (Ch.1 -Ch.7)



Wireless Indoor sensor signal strength:



Note: Please locate the sensors where console can receive good signal.

Viewing Different Indoor Channel

This console is capable to pair with up to 7 wireless indoor thermo-hygro sensors. If you have 2 or more sensors, you can press [**CHANNEL**] key to switch between different indoor channels in normal mode, or press and hold [**CHANNEL**] key for 2 seconds to toggle auto-cycle mode to display the connected channels at 4 second intervals.

During auto-cycle mode, press [CHANNEL] key to stop the auto cycle and display the current channel.

Comfort Indication

The comfort indication is a pictorial indication based on indoor air temperature and humidity in an attempt to determine comfort level. Each indoor channel has independent comfort indication.

\odot	\odot	\$ ⁶ ©
Too cold	Comfortable	Too hot

Note:

Comfort indication can vary under the same temperature, depending on the humidity. There is no comfort indication when temperature is below 0°C (32°F) or over 60°C (140°F).

Temperature / Humidity Trend

The temperature / humidity trend indicator shows the trends of changes in the forthcoming few minutes. Arrows indicate a rising, steady or falling trend.

Arrow indicator	_	\rightarrow	
Temperature / Humidity trend	Rising	Steady	Falling

Note:

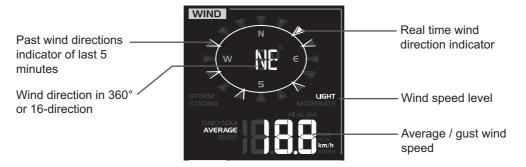
When temperature is below -40°C, the LCD will display "Lo". If temperature is above 80°C, LCD will display "HI".

When humidity is below 1%, LCD will display "Lo". If humidity is above 99%, LCD will display "HI".

WIND

The wind speed, direction and related information will be displayed in the **WIND** window at the top-row-middle.

Viewing Wind Direction



To select the wind display mode

In normal mode, press [WIND] key to switch between AVERAGE wind speed and GUST wind speed.

To set the wind speed unit and direction display format

- 1. In normal mode, press and hold [WIND] key for 2 seconds to enter into wind speed unit mode and the unit will flash. And then press [**GRAPH** / Λ] or [°F / °C / V] key to change the wind speed unit in this sequence: m/s \rightarrow km/h \rightarrow knots \rightarrow mph
- Press [WIND] key again to enter into wind direction display format setting mode. The wind direction reading will flash. And then press [GRAPH / Λ] or [°F / °C / V] key to select the display format between 360° and 16-direction.
- 3. Press [WIND] key again to return to normal mode.

Wind Speed Level

Level	LIGHT	MODERATE	STRONG	STORM
Speed	0.1km/h ~19km/h	20km/h ~ 49km/h	50km/h ~ 88km/h	> 89km/h

WEATHER INDEX

The weather index window (*INDEX*), in the middle of the LCD, displays the UV INDEX, BEAUFORT, WIND CHILL, HEAT INDEX and DEWPOINT.

In normal mode, press [INDEX] key to view the weather indices in this sequence: UV INDEX \rightarrow BEAUFORT \rightarrow WIND CHILL \rightarrow HEAT INDEX \rightarrow DEWPOINT

Note:

In normal mode, press [°F / °C / V] key to switch between °C/°F.

UV Index

The UV index reflects the UV data collected by the wireless 6-IN-1 sensor that the detectable range is $0\sim16$.

Beaufort Scale

The Beaufort scale is an international scale of wind velocities ranging from 0 (calm) to 12 (Hurricane force).





Beaufort Scale	Description	Wind Speed	Land Condition
		< 1 km/h	
	< 1 mph	Colm. Creake rises wortheally	
0	0 Calm	< 1 knots	Calm. Smoke rises vertically.
		< 0.3 m/s	
		1.1 ~ 5km/h	
1	Lightoir	1 ~ 3 mph	Smoke drift indicates wind direction.
1	Light air	1 ~ 3 knots	 Leaves and wind vanes are stationary.
		0.3 ~ 1.5 m/s	stationary.
		6 ~ 11 km/h	
2	Light broozo	4 ~ 7 mph	Wind felt on exposed skin. Leaves
2	Light breeze	4 ~ 6 knots	rustle. Wind vanes begin to move.
		1.6 ~ 3.3 m/s	
		12 ~ 19 km/h	
		8 ~ 12 mph	Leaves and small twigs constantly
3	Gentle breeze	7 ~ 10 knots	moving, light flags extended.
		3.4 ~ 5.4 m/s	
		20 ~ 28 km/h	
		13 ~ 17 mph	Dust and loose paper raised. Small
4	Moderate breeze	11 ~ 16 knots	branches begin to move.
		5.5 ~ 7.9 m/s	
		29 ~ 38 km/h	
_		18 ~ 24 mph	Branches of a moderate size move.
5	Fresh breeze	17 ~ 21 knots	Small trees in leaf begin to sway.
		8.0 ~ 10.7 m/s	
		39 ~ 49 km/h	Large branches in motion. Whistling
		25 ~ 30 mph	heard in overhead wires. Umbrella
6	Strong breeze	22 ~ 27 knots	use becomes difficult. Empty plastic
		10.8 ~ 13.8 m/s	bins tip over.
		50 ~ 61 km/h	
_		31 ~ 38 mph	Whole trees in motion. Effort needed
7	High wind	28 ~ 33 knots	to walk against the wind.
		13.9 ~ 17.1 m/s	
		62 ~ 74 km/h	
		39 ~ 46 mph	Some twigs broken from trees.
8	Gale	34 ~ 40 knots	- Cars veer on road. Progress on foot
		17.2 ~ 20.7 m/s	is seriously impeded
		75 ~ 88 km/h	Some branches break off trees,
	9 Strong gale	47 ~ 54 mph	and some small trees blow over.
9		41 ~ 47 knots	Construction /temporary signs and
		20.8 ~ 24.4 m/s	barricades blow over.
		89 ~ 102 km/h	
		55 ~ 63 mph	Trees are broken off or uprooted,
10	10 Storm	48 ~ 55 knots	structural damage likely.
		24.5 ~ 28.4 m/s	

		103 ~ 117 km/h	
11	11 Violent storm	64 ~ 73 mph	Widespread vegetation and structural
		56 ~ 63 knots	damage likely.
		28.5 ~ 32.6 m/s	
		≥ 118 km/h	
12	12 Hurricane force	≥ 74 mph	 Severe widespread damage to vegetation and structures. Debris and
12 Humcane lorce	≥ 64 knots	 unsecured objects are hurled about. 	
		≥ 32.7m/s	

Wind Chill

A combination of the wireless 6-IN-1 sensor's temperature and wind speed data determines the current wind-chill factor.



Heat Index

The heat index, which is determined by the wireless 6-IN-1 sensor's temperature & humidity data, when the temperature is between $27^{\circ}C$ ($80^{\circ}F$) and $50^{\circ}C$ ($120^{\circ}F$).



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

Dewpoint

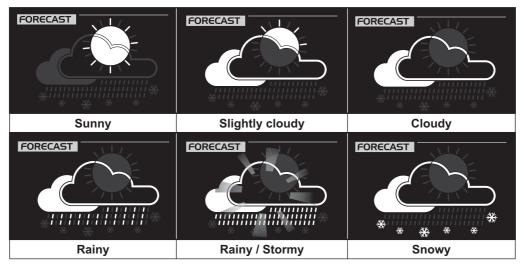
- The dew point is the temperature below which the water vapor in air at constant barometric pressure condenses into liquid water at the same rate at which it evaporates. The condensed water is called *dew* when it forms on a solid surface.



- The dew point temperature is determined by the temperature & humidity data from wireless 6-IN-1 sensor.

WEATHER FORECAST

The weather forecast window (*FORECAST*) locates at the upper right corner of the LCD. The console is built with a sensitive pressure sensor, by which the proven sophisticated software forecasts the weather of the next $12\sim24$ hours within a $30\sim50$ km ($19\sim31$ miles) radius.



Note:

- The weather forecast is reflecting the weather situation for next 12 hours, it may not necessarily reflect the current situation.
- The "Snowy" icon will be displayed when the outdoor temperature is below -3°C (26°F), and under cloudy or rainy forecast.

BAROMETRIC PRESSURE

The barometric pressure window (*BARO*) locates in the middle right of the LCD **Barometric pressure:** the atmospheric pressure is the pressure at any location of the Earth caused by the weight of the column of air above it. One atmospheric pressure refers to the average pressure and gradually decreases as altitude increases. Meteorologists use barometers to measure atmospheric pressure. Since variation in atmospheric pressure greatly affected by weather, it is possible to forecast the weather by measuring the changes in pressure.



To set the barometer unit and select the wind display mode

- 1. In normal mode, press [**BARO**] key to change the barometer unit in this sequence: hPa \rightarrow inHg \rightarrow mmHg
- 2. In normal mode, press and hold [**BARO**] key to switch between **ABSOLUTE/RELATIVE** display.

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

To set the RELATIVE atmospheric pressure value

- 1. Obtain the atmospheric pressure data of the sea level (it is also the relative atmospheric pressure data of your home area) through the local weather service, internet or any weather information source.
- 2. In normal mode, press and hold [BARO] key for 2 seconds until "ABSOLUTE" or "RELATIVE" icon flashes.

- 3. Press [GRAPH / A] or [°F / °C / V] key to switch to "RELATIVE" mode.
- 4. Press [BARO] key once again, the "RELATIVE" atmospheric pressure digit flashes.
- 5. Press [**GRAPH** / Λ] or [°F / °C / V] key to change its value.
- 6. Press [BARO] key to save and exit the setting mode.

Note:

- When you change the RELATIVE atmospheric pressure value, the weather indicators will change along with it.
- The built-in barometer detects the environmental absolute atmospheric pressure changes.
 Based on the data collected, it predicts the weather conditions in the forthcoming 12 hours.
 The weather indicator will change according to the detected absolute atmospheric pressure after operating the clock for 1 hour.
- The RELATIVE atmospheric pressure is based on the sea-level pressure you entered but it will change with the absolute atmospheric pressure after operating the clock for 1 hour.

RAINFALL

The **RAINFALL** reading displays in the middle right of the LCD. It shows how many mm/inches of rain have accumulated in the rain collector in one-hour time period to indicate the current rainfall rate.



To set the rainfall unit

- 1. Press and hold [**RAINFALL**] key for 2 seconds to enter unit setting mode.
- 2. Press [GRAPH / A] or [°F / °C / V] key to toggle between mm (millimeter) and in (inch).
- 3. Press [RAINFALL] key to confirm and exit the setting.

To select the rainfall display mode

Press [RAINFALL] key to toggle between:

- 1. DAILY the total rainfall from midnight
- 2. **HOURLY** the total rainfall in the past hour
- 3. WEEKLY the total rainfall of the current week
- 4. **MONTHLY-** the total rainfall of the current calendar month
- 5. Accumulate the total rainfall since the last reset

Note:

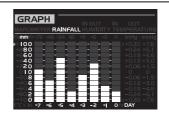
- In normal mode, press and hold [**HISTORY**] key for 2 seconds to reset the **Accumulate** rainfall record.
- To avoid the fault data, please reset the **Accumulate** rainfall when you reinstall your wireless 6-IN-1 sensor to other location

HISTORY GRAPH

The history graph (*GRAPH*), at the bottom right of the LCD, displays different weather histories in bar chart format.

To view different graphs

In normal mode, press [**GRAPH** / Λ] key to toggle between different types of graph:



Weather variable	Unit of measure	Record time range	Graph
Barometric pressure	hPa, inHg and mmHg	Past 72 hours	BAROMETER NPa 10 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 9410 -2 </td
Indoor temperature (according to the current channel)	°F or °C	Past 72 hours	Image: Construction of the second s
Outdoor temperature	°F or °C	Past 72 hours	CONTRACTOR OF CO
Indoor humidity (according to the current channel)	%	Past 72 hours	Image: State of the s
Outdoor humidity	%	Past 72 hours	H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-20-6-30 H-72-48-24-42-42-20-6-30 H-72-48-42-42-42-42-42-42-42-42-42-42-42-42-42-
Rainfall	mm or in	Past 7 days (daily)	Imourt N. OUT N. OUT BAROMETER RAINFALL HUMDITY TEMPERATURE 9 1000

To view the daily MAX/MIN

The console can record the daily MAX/MIN weather data for your easy review.

In normal mode, press [MAX / MIN] key to check the daily MAX/MIN records. The display sequence is: outdoor MAX temperature & humidity → outdoor MIN temperature & humidity → current channel's indoor MAX temperature & humidity → current channel's indoor MIN temperature & humidity → MAX average wind speed → MAX gust → MAX dew point →

MIN dew point \rightarrow MAX wind chill \rightarrow MIN wind chill \rightarrow MAX heat index \rightarrow MIN heat index \rightarrow MAX UV index \rightarrow MAX Beaufort \rightarrow MAX pressure \rightarrow MIN pressure \rightarrow MAX daily rainfall. - Press and hold [MAX / MIN] key for 2 seconds to reset all the MAX/MIN records.

To view the history data (the records in the past 24 hours)

The console automatically stores the weather data of the past 24 hours.

- 1. Press [**HISTORY**] key to check the beginning of the current hour's weather data, e.g. the current time is 7:25 am, March 28, the display will show the data of 7:00am, March 28.
- 2. Press [HISTORY] key repeatedly to view older readings of the past 24 hours, e.g. 6:00am (Mar 28), 5:00am (Mar 28), ..., 10:00am (Mar 27), 9:00am (Mar 27), 8:00am (Mar 27)

Note:

The LCD will display the history data records and their time & date.

WEATHER ALERT SETTING

Weather Alert can alert you of certain weather conditions. Once the alert criterion is met, the alarm sound will activate and the LCD's alert icon will flash.

To set alert

1. Press [ALERT] to select and display the desired weather alert reading in the sequence below:

Alert reading Sequence	Setting Range	Display Section	Default Value
Outdoor Temperature High Alert	-40°C ~ 80°C		40°C
Outdoor Temperature Low Alert	-+0 0 0 0 0	Outdoor temperature &	0°C
Outdoor Humidity High Alert	1% ~ 99%	humidity section (<i>OUTDOOR</i>)	80%
Outdoor Humidity Low Alert	1%~99%		40%
Indoor Temperature High Alert	-40°C ~ 80°C	Current Indoor	40°C
Indoor Temperature Low Alert	-40 C * 80 C	temperature & humidity	0°C
Indoor Humidity High Alert	1% ~ 99%	section	80%
Indoor Humidity Low Alert	170~9970	(INDOOR)	40%
Wind Speed	0.1m/s ~ 50m/s	Wind direction & speed section (<i>WIND</i>)	17.2mm/h
Pressure Drop (within 30 minutes)	1hPa ~ 10hPa	Barometer section (BARO)	3hPa
Daily Rainfall	1mm ~ 1000mm	Rainfall section (RAINFALL)	100mm

2. Under the current alert reading, press and hold [ALERT] key for 2 seconds to enter alert setting and the alert reading will flash.

- Press [GRAPH / A] or [°F / °C / V] key to adjust the value or press and hold the key to change rapidly.
- 4. Press [ALERT] key to save the alert reading then press [ALARM] key to toggle the regarding alert on/off.



Alert on



Alert off

5. Press any key on the front side to save and back to normal mode, or it will automatically back to normal mode after 30 seconds without pressing any key.

To silence the alert alarm:

Press [ALARM / SNOOZE] key to silence the alert alarm or let the alarm automatically turn off after 2 minutes.

Note:

- Once the alert is triggered, the alarm will sound for 2 minutes and the related alert icon will flash.
- If the alert alarm is automatically off after 2 minutes, the alert icon will still keep flash until the weather reading is out of the alert range.
- The weather alert will sound again when the weather readings falls into the alert range again.

POINTING THE WIRELESS 6-IN-1 SENSOR TO SOUTH

The wireless 6-in-1 sensor is calibrated to point to North for the maximum accuracy. However, for the user's convenience (e.g. users in the Southern hemisphere), it is possible to use the sensor with the wind vane pointing to South.

- 1. Install the wireless 6-IN-1 sensor with its wind meter end pointing to South. (Please refer to INSTALLATION OF THE WIRELESS 6-IN-1 SENSOR for mounting details)
- 2. In normal mode of the console, press and hold **[INDEX]** key for 8 seconds to enter into the UV index calibration mode, then press the index again until the "N" icon appears on the weekday location to enter into the sensor orientation mode
- 3. Use [GRAPH / A] or [°F / °C / V] key to change to lower part (Southern Hemisphere).
- 4. Press [INDEX] key to confirm and exit.
- 5. Press the [REFRESH] to synchronize the internet time after you complete the setting

Note:

- Changing the hemisphere setting will automatically switch the direction of the moon phase on the display.

MAINTENANCE

BATTERY REPLACEMENT

When the low battery indicator " 💭 " displays, it indicates that the wireless 6-in-1 weather sensor or the current channel wireless Indoor thermo-hygro sensor battery power is low. You should replace with fresh AA size batteries at once.

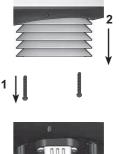
CLEANING THE RAIN COLLECTOR

- 1. Unscrew the rain collector by turning it 30° anticlockwise.
- 2. Gently remove the rain collector.
- 3. Clean and remove any debris or insects.
- 4. Install the collector when it is clean and fully dried.



CLEANING THE HYGRO-THERMO SENSOR OF THE WIRELESS 6-IN-1 SENSOR

- 1. Remove the 2 screws at the bottom of the radiation shield.
- 2. Gently pull out the shield.
- 3. Carefully remove any dirt or insects on the sensor casing (do not let the sensors inside get wet).
- 4. Clean the shield with water to remove any dirt or insects.
- 5. Install all the parts back when they are clean and fully dried.



CLEANING THE UV SENSOR AND CALIBRATION

For the most accurate readings, please use the pure water to clean the UV sensor cover lens before mounting. Also user can calibrate the UV index with some instrument grade UV meter to maintain the high accuracy of the UV index reading.

- 1. In normal mode of the console, press and hold [INDEX] key for 8 seconds to enter into UV index calibration mode
- 2. Use [GRAPH / A] or [°F / °C / V] key to adjust the UV gain magnification factor
- 3. Press the [INDEX] key twice to confirm and exit the setting

Note:

- The default UV gain magnification factor is 1, user can increase or decrease the value per 0.1.
- For precision UV measurement, gentle clean the UV sensor cover lens by the pure water regularly.

CONSOLE FIRMWARE UPDATE

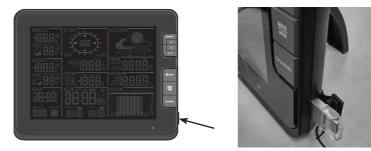
- 1. Unzip the "Update.zip" file
- 2. Copy the unzipped "Update" folder to the USB mass storage driver.

Important note:

- The USB mass storage driver should be **FAT32** format
- The "Update" folder must be the USB mass storage driver's root directory)



3. Disconnect the main console's DC power from the power outlet and remove the backup batteries. Plug the USB mass storage driver to the USB socket at the right side of the main console.



4. Reconnect the main console's DC power to start the update process

Important note:

- In the meantime, do not remove the USB mass storage driver.
- If the firmware update still not restart, you can try to press the reset key to trigger the update process.
- 5. During the update process, the Console status LED will flash in red color and LCD will show the update status as below:





Updating screen \rightarrow Update completed and waiting for reboot

- 6. Once the update completed, the main console will restart and return to the normal display screen.
- 7. Remove the USB mass storage driver from the main console.
- 8. Set the time zone on the main console.
- 9. Enter the WU connection information and set time server in the setup UI.

Note:

- The USB port is for firmware update only.
- Please keep connect the power during the firmware update process.
- During firmware update process the Wi-fi will be disable until the update success and it will reconnect to your Wi-fi router and upload the data again. If the console cannot connect to your route, you need to re-enter the router and WU connection information and set time server in the setup UI again.

PRECAUTIONS

- Read and keep these instructions.
- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not cover the ventilation holes with any items such as newspapers, curtains etc.
- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials.
- Do not tamper with the unit's internal components. This invalidates the warranty.
- Only use fresh batteries. Do not mix new and old batteries.
- Only use attachments / accessories specified by the manufacturer.
- Images shown in this manual may differ from the actual display.
- When disposing of this product, ensure it is collected separately for special treatment.
- Placement of this product on certain types of wood may result in damage to its finishing for which manufacturer will not be responsible. Consult the furniture manufacturer's care instructions for information.
- The contents of this manual may not be reproduced without the permission of the manufacturer.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- The socket outlet shall be installed near the equipment and shall be easily accessible.
- Technical specifications and user manual contents for this product are subject to change without notice.
- Place the main console at least 20cm from nearby persons.



FCC STATEMENT

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

□ Reorient or relocate the receiving antenna.

□ Increase the separation between the equipment and receiver.

□ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

□ Consult the dealer or an experienced radio/TV technician for help.

SPECIFICATION

General Specification		
· · · · · · · · · · · · · · · · · · ·	$215 \times 172 \times 20$ mm ($95 \times 6.9 \times 1.1$ in)	
Dimensions (W x H x D)	215 x 172 x 29mm (8.5 x 6.8 x 1.1in)	
Weight	639g (with batteries)	
Main power	DC 5V, 1A adaptor	
Backup battery	3 x AAA size 1.5V batteries (alkaline recommended)	
Operating temperature range	-5°C ~ 50°C	
Wi-fi Communication Specific		
Wi-fi standard	802.11 b/g/n	
Wi-fi operating frequency :	2.4GHz	
Supported device for setup UI	Built-in Wi-fi with AP mode function smart devices, laptops or PCs: Android smart phone, Android pad, iPhone, iPad or Windows laptop	
Recommended web browser for setup UI	Web browsers that support HTML 5, such as the latest version of Chrome, Safari, IE, Edge, Firefox or Opera.	
Wireless Sensor side Commu	nication Specification	
Support sensors	1 Wireless 6-IN-1 sensor and up to 7 Wireless hygro-thermo indoor sensors	
RF frequency	915Mhz (US version) / 868Mhz (EU or UK version) / 917Mhz (AU version)	
RF transmission range	150m	
Time Related Function Specif	ication	
Time display	HH: MM: SS	
Hour format	12hr AM/PM or 24 hr	
Date display	DD / MM or MM / DD	
Time synchronize method	Through Internet time server to synchronize the UTC	
Weekday languages	EN / DE / FR / ES / IT / NL / RU	
Hour offset	+13 ~ -12 hour	
DST	ON / OFF	
Barometer Display & Function Note: The following details are	Specification listed as they are displayed or operate on the console.	
Barometer unit	hPa, inHg and mmHg	
Measuring range	540 ~ 1100hPa (relative setting range 930 ~ 1050hPa)	
Accuracy	(700 ~ 1100hPa ± 5hPa) / (540 ~ 696hPa ± 8hPa) (20.67 ~ 32.48inHg ± 0.15inHg) / (15.95 ~ 20.55inHg ± 0.24inHg) (525 ~ 825mmHg ± 3.8mmHg) / (405 ~ 522mmHg ± 6mmHg) Typical at 25°C (77°F)	
Resolution	1hPa / 0.01inHg / 0.1mmHg	

Weather forecast	Sunny/Clear, Slightly Cloudy, Cloudy, Rainy, Rainy / Stormy and Snowy	
Display modes	Current	
Memory modes	Historical data of past 24 hours, daily Max / Min	
Alarm	Pressure change alert	
	e Display & Function Specification listed as they are displayed or operate on the console.	
Temperature unit	°C and °F	
Display range	-40 ~ 80°C (-40 ~ 176°F)	
Accuracy	55 ~ 60°C ± 0.5°C (131 ~ 140°F ± 0.9°F) 10 ~ 55°C ± 0.4°C (50 ~ 131°F ± 0.7°F) -20 ~ 10°C ± 1.3°C (-4 ~ 50°F ± 2.3°F) -40 ~ -20°C ± 1.9°C (-40 ~ -4°F ± 3.4°F)	
Resolution	0.1°C / 0.1°F	
Display modes	Current	
Memory modes	Historical data of past 24 hours, daily Max / Min	
Alarm	Hi / Lo temperature alert	
	splay & Function Specification listed as they are displayed or operate on the console.	
Humidity unit	%	
Display range	0~100%	
Accuracy	0 ~ 90% RH ± 2.5% RH @ 25°C (77°F) 90 ~ 100% RH ± 3.5% RH @ 25°C (77°F)	
Resolution	1%	
Resolution Display modes	1% Current	
Display modes	Current	
Display modes Memory modes Alarm Wind Speed & Direction Disp	Current Historical data of past 24 hours, daily Max / Min	
Display modes Memory modes Alarm Wind Speed & Direction Disp	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert Iay and Function Specification	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are li	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console.	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are line Wind speed unit	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are li Wind speed unit Wind speed display range	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert Hay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots 0 ~ 112mph, 50m/s, 180km/h, 97knots	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are li Wind speed unit Wind speed display range Resolution	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots 0 ~ 112mph, 50m/s, 180km/h, 97knots 0.1mph, 0.1m/s, 0.1km/h, 0.1knots	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are li Wind speed unit Wind speed display range Resolution Speed accuracy	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots 0 ~ 112mph, 50m/s, 180km/h, 97knots 0.1mph, 0.1m/s, 0.1km/h, 0.1knots ±2.2 mph or ±10% (whichever is greater)	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are li Wind speed unit Wind speed display range Resolution Speed accuracy Display mode	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots 0 ~ 112mph, 50m/s, 180km/h, 97knots 0.1mph, 0.1m/s, 0.1km/h, 0.1knots ±2.2 mph or ±10% (whichever is greater) Gust/Average	
Display modes Memory modes Alarm Wind Speed & Direction Disp Note: The following detail are line Wind speed unit Wind speed display range Resolution Speed accuracy Display mode Memory modes	Current Historical data of past 24 hours, daily Max / Min Hi / Lo Humidity Alert lay and Function Specification sted as they are displayed or operate on the console. mph, m/s, km/h and knots 0 ~ 112mph, 50m/s, 180km/h, 97knots 0.1mph, 0.1m/s, 0.1km/h, 0.1knots ±2.2 mph or ±10% (whichever is greater) Gust/Average Historical Data of past 24 hours, daily Max Gust/Average	

Rain Display & Function Specification

Note: The following details are listed as they are displayed or operate on the console.	
Unit for rainfall	mm and in
Accuracy for rainfall	±7%
Range of rainfall	0 ~ 19999mm (0 ~ 787.3 in)
Resolution	0.254mm (0.01in)
Display modes	Current
Memory modes	Historical Data of the past 24 hours, daily Max
Rainfall display mode	Hourly / Daily / Weekly / Monthly / Total rainfall
Alarm	Hi Daily Rainfall Alert

Weather Index Display & Function Specification Note: The following details are listed as they are displayed or operate on the console

Weather index mode	UV Index, Beaufort, Wind Chill, Heat Index and Dew point
UV index range	0 ~ 16
Beaufort scale	0 ~ 12
Wind Chill range	-40 ~ 18°C, wind speed >4.8km/h
Heat index range	26 ~ 50 °C
Dew point range	-20 ~ 60°C
Display modes	Current
Memory modes	Historical Data of past 24 hours, Daily Max / Min

WIRELESS 6-IN-1 SENSOR

Dimensions (W x H x D)	392.5 x 326 x 144.5mm (15.5 x 12.8 x 5.7in)		
Weight	1096g (with batteries)		
Main power	3 x AA size 1.5V batteries (Alkaline batteries recommended)		
Auxiliary power	Solar panel		
Weather data	Temperature, Humidity, Wind speed, Wind direction, Rainfall and UV index		
RF transmission range	150m		
RF frequency	915Mhz (US) / 868Mhz (EU, UK) / 917Mhz (AU)		
Transmission interval	 12 seconds for wind speed and wind direction data 24 seconds for temperature, humidity, UV and rain data 		
Operating range	-40 ~ 60°C (-40 ~ 140°F) Lithium batteries required		

WIRELESS	HYGRO.	THERMO		SENSOR
WINLESS	III GILO		INDOOR	SLINGOK

61 x 113 x 39.5mm (2.4 x 4.4 x 1.6in)		
144g (with batteries)		
2 x AA size 1.5V batteries (alkaline recommended)		
Temperature and humidity		
915Mhz (US) / 868Mhz (EU, UK) / 917Mhz (AU)		
150m		
60 seconds		
-40 ~ 60°C (-40 ~ 140°F) Lithium batteries required		