

AIR ALFA

CRYSTALBLACK ATOMIC WIRELESS RAIN GAUGE

Model: SE001

User Manual



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Key features

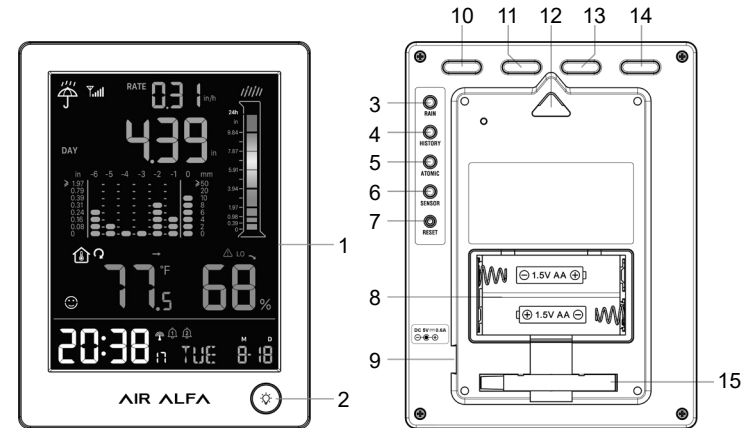
- **Comprehensive Rain Tracking:** Monitor your hourly, daily, weekly, monthly, and total rainfall at a glance.
- **Visual Rain Graph:** View 12-hour or 24-hour rainfall history directly on the screen's built-in bar graph.
- **Bird-Proof Rain Gauge:** Includes installable bird spikes to keep your outdoor sensor clean and accurate.
- **Multi-Zone Monitoring:** Track temperature and humidity in up to 3 separate indoor or outdoor locations.
- **Long-Range Wireless:** Up to 328ft (100m) transmission range gives you flexibility when placing your sensors.
- **Smart "Ice Pre-Alarm":** Wakes you up 30 minutes early if the outdoor temperature drops below freezing, giving you extra time to defrost your car.
- **Atomic Clock:** Automatically syncs the time and date for ultimate accuracy, including automatic Daylight Saving Time (DST) updates.
- **Custom Weather Alerts:** Set your own high or low warning alarms for temperature, humidity, and heavy rain.

Package contents

Console	Wireless rain gauge	Wireless thermo-hygro sensor
Stainless steel bird spikes x10	Plastic cap	User manual
Power adapter		

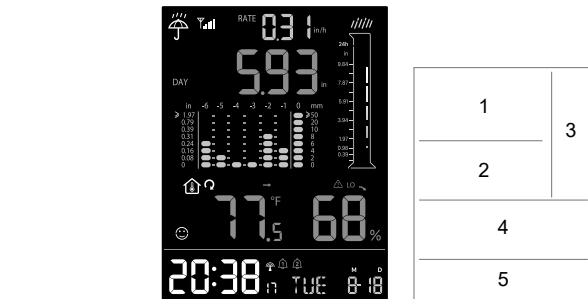
Overview

Console



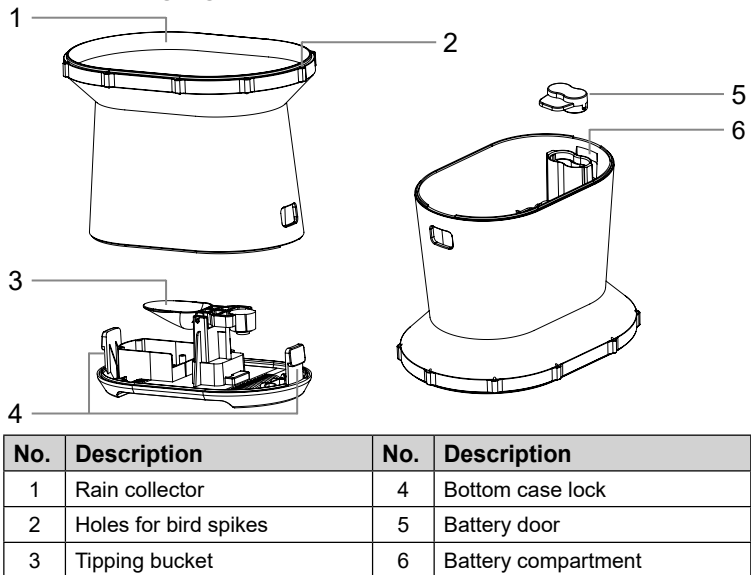
No.	Key / Part Name	Description
1	Display screen	
2		Press to change the backlight level or stop the alarm/alert sound
3	RAIN	- Press to switch between hourly, daily, weekly, monthly and total rainfall information - Press and hold for 2 seconds to view the 12-hour / 24-hour rainfall level graph - Press and hold for more than 6 seconds to clear the rainfall data
4	HISTORY	Press to display the rainfall history
5	ATOMIC	Press to start Atomic Clock signal reception
6	SENSOR	Press to start sensor synchronization (pairing)
7	RESET	Press to reset the console
8	Battery compartment	
9	Power jack	
10		- Press to switch between the maximum and minimum values - Press to increase the value (in setting mode)
11		- Press to switch between CH1-3 - Press to decrease the value (in setting mode)
12	Wall mounting holder	
13		- Press to view alarm time and alert values - Hold for 2 seconds to set alarm time and alert values
14		Press and hold for 2 seconds to enter time, date, data units and other settings
15	Detachable table stand	

Display



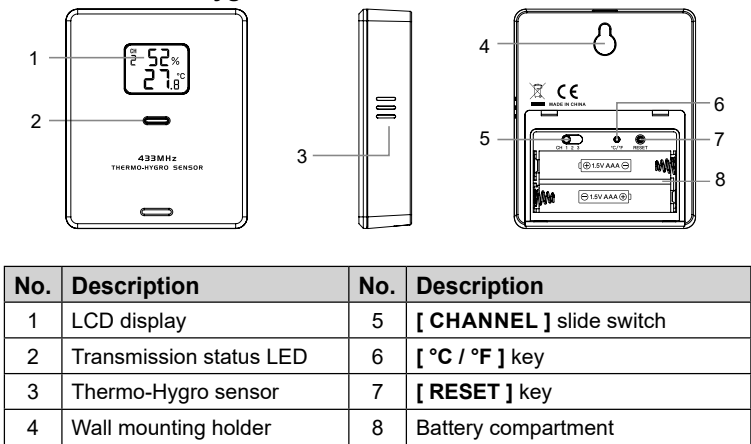
No.	Description
1	Rain rate, rainfall
2	Rainfall graph
3	12-hour or 24-hour rainfall level
4	Indoor or channel 1-3 temperature and humidity
5	Time & Date

Wireless rain gauge



No.	Description	No.	Description
1	Rain collector	4	Bottom case lock
2	Holes for bird spikes	5	Battery door
3	Tipping bucket	6	Battery compartment

Wireless thermo-hygro sensor

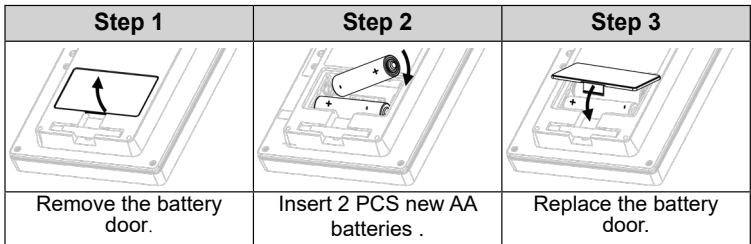


No.	Description	No.	Description
1	LCD display	5	[CHANNEL] slide switch
2	Transmission status LED	6	[°C / °F] key
3	Thermo-Hygro sensor	7	[RESET] key
4	Wall mounting holder	8	Battery compartment

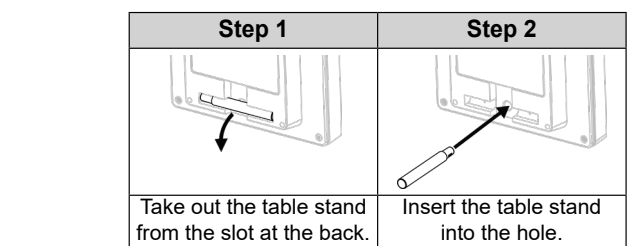
Getting started

Insatalling console

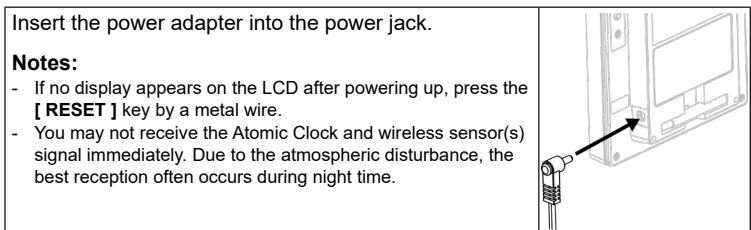
1. Installing the batteries



2. Installing the table stand

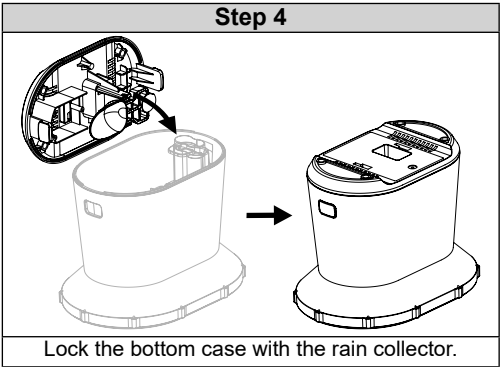
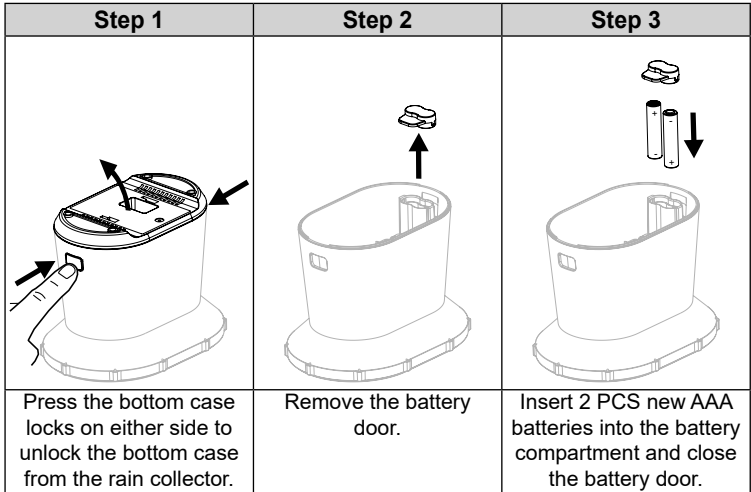


3. Powering up the console

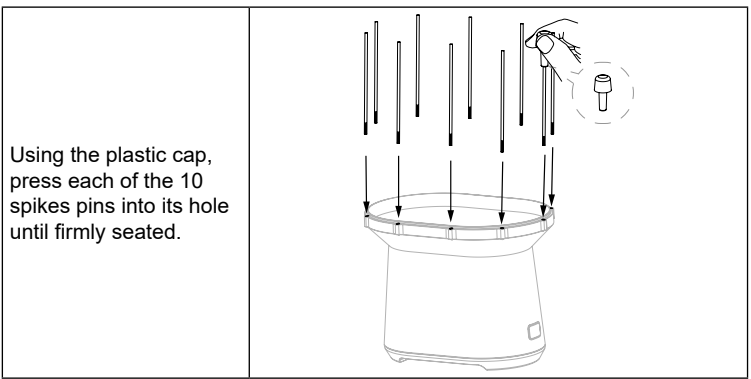


Installing wireless rain gauge

1. Installing the batteries

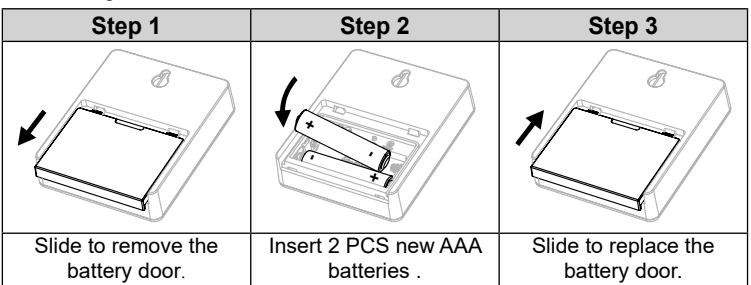


2. Installing bird spikes



Installing wireless thermo-hygro sensor

1. Installing the batteries



Note:

- Once the channel is assigned to a sensor, you can only change it by removing the batteries or resetting the sensor, you also need to press the [SENSOR] key on the console to pair this sensor.
- After replacing the batteries of the wireless sensor or the unit fails to receive wireless sensor signal of a specified channel, you need to press [SENSOR] key on the console to pair this sensor again.
- Avoid placing the transmitter in direct sunlight, rain or snow.
- The building material and the position of the receiver and transmitter affect the effective range. So try various locations to obtain the best result.
- Place the units away from metal objects and electrical appliances to minimize the interference. The effective transmission distance between the receiver and transmitter should be within 30m under usual circumstances.

View multiple wireless sensor channels

1. In normal mode, press [— CH] key to switch the display between indoor and CH 1-3.
2. In normal mode, press and hold [— CH] key for 2 seconds to enter auto-cycle mode. The screen will automatically switch between indoor and CH 1-3 every 4 seconds.
3. During auto-cycle mode, press [— CH] key again to exit auto-cycle mode and display the current channel.

Reception of atomic clock signal

The time and date are radio-controlled. The current time and date are automatically synchronized with the time signal transmitted from the US (WWVB). When using for the first time (after inserting the batteries or pressing the [RESET] key), the clock will start to receive the atomic clock signal after 5 minutes with the signal strength indicator flashing.

Atomic clock signal indicator

The Atomic Clock signal indicator shows the signal reception status as follows:



No Atomic Clock
signal received



Receiving Atomic
Clock signal



Received Atomic
Clock signal

- Notes:**
- Every day the wireless sensor will automatically search for the time signal at 2:00 , 3:00, 4:00 and 17:00.
 - Always place the unit away from interfering sources such as TV set, computer, etc.
 - Avoid placing the unit on or next to metal plate.
 - Closed area such as airport basement, tower block or factory is not recommended.
 - Do not start reception on a moving article such as vehicle or train.

Daylight saving time (DST)

This clock has been programmed to automatically switch when the daylight saving time is in effect. User can disable the DST function in time and calendar setting mode.

Notes:
DST AUTO/OFF setting is only available when the ATOMIC function is ON.

Time, date and other setting

In normal mode, press and hold [⚙️] key for 2 seconds to enter the setting mode. Press [+ Ⓜ] or [- Ⓢ] key to adjust the settings, and press [⚙️] key to enter the next setting. Please refer to the following setting procedures.

Step	Mode	Setting procedure
[⚙️] + 2s	12/24 hour format	Press [+ Ⓜ] or [- Ⓢ] key to select 12 hour or 24 hour format.
[⚙️]	US time zone	Press [+ Ⓜ] or [- Ⓢ] key to select PST, NST, AST, EST, CST or MST.
[⚙️]	Time	Press [+ Ⓜ] or [- Ⓢ] key to adjust the minute / hour.
[⚙️]	Year	Press [+ Ⓜ] or [- Ⓢ] key to adjust the year.
[⚙️]	Date	Press [+ Ⓜ] or [- Ⓢ] key to adjust the day / month.
[⚙️]	M-D / D-M display format	Press [+ Ⓜ] or [- Ⓢ] key to adjust the “Month / Day” or “Day / Month” display format.
[⚙️]	±23 Hour Offset	Press [+ Ⓜ] or [- Ⓢ] key to adjust the hour offset.
[⚙️]	Atomic Clock signal ON / OFF	Press [+ Ⓜ] or [- Ⓢ] key to turn on / off Atomic Clock signal reception.
[⚙️]	DST Auto / OFF	Press [+ Ⓜ] or [- Ⓢ] key to choose between DST Auto or OFF mode.
[⚙️]	Weekday languages	Press [+ Ⓜ] or [- Ⓢ] key to select weekday display language (EN, PL, CZ, NL,IT ES, FR or DE)
[⚙️]	Temperature unit	Press [+ Ⓜ] or [- Ⓢ] key to select °F or °C.
[⚙️]	Rainfall unit	Press [+ Ⓜ] or [- Ⓢ] key to select in or mm.
[⚙️]	Exit setting mode	

Alarm, alert and snooze

To set the alarm/alert manually, press [Ⓜ] key, then press [⚙️] key to turn on/off the alarm/alert. To adjust the value, press and hold the [Ⓜ] key until the digit flashes and press [+ Ⓜ] or [- Ⓢ] key. And press [Ⓜ] key to proceed with the settings of the next step. Please refer to following setting procedures.

Step	Mode	Setting procedure
[Ⓜ] + 2s	Alarm 1 time setting	1. Press and hold the [Ⓜ] key for 2 seconds to enter alarm setting mode, then press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the alarm 1 and ice pre -alarm.
[Ⓜ]	Alarm 2 time setting	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the alarm 2.

[Ⓜ]	IN / CH temperature high alert	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the temperature high alert.
[Ⓜ]	IN / CH temperature low alert	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the temperature low alert.
[Ⓜ]	IN / CH humidity high alert	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the humidity high alert.
[Ⓜ]	IN / CH humidity low alert	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the humidity low alert.
[Ⓜ]	Rain rate high alert	1. Press [+ Ⓜ] or [- Ⓢ] key to adjust the value. 2. Press [⚙️] key to on/off the rain rate high alert.
[Ⓜ]	Exit setting mode	
[⚙️]	Turn off the current alarm / snooze / alert	1. When the alarm sounds, press [⚙️] key to turn off the current alarm. 2. Press the [⚙️] key for 2 seconds or [Ⓜ] key to turn off the current snooze and it will resume after 24 hours. 3. When the alert sounds, press [⚙️] key to turn off the current alert.

- Notes:**
- The alarm will be turned on automatically once you set the alarm time.
 - After setting the value, press [- Ⓢ] key to cycle between indoor and channel 1–3 temperature and humidity, the values are indoor by default.
 - The snooze could be used continuously in 24 hours.
 - During the snooze, the alarm icons “Ⓜ” and / or “Ⓜ” will keep flashing.
 - The ice pre-alarm is only available for alarm 1.
 - To activate the ice pre-alarm, please ensure:
 - a. Alarm 1 is turned on with the “Ⓜ” appears on the LCD;
 - b. And the ice pre-alarm is turned on with the “❄️” on the LCD.
 - Once the ice pre-alarm is activated, the preset alarm will sound 30 minutes earlier if the outdoor temperature is below 26.6°F.

Indoor / channel 1–3 temperature & humidity

In normal mode, press [- Ⓢ] key to switch between indoor and channel 1–3 temperature and humidity; press [- Ⓢ] key for 2 seconds to enter the auto-cycle mode with the icon “🔄” appears on the screen, press [- Ⓢ] key to exit the auto-cycle mode.

Temperature and humidity trend

The trend indicator shows the temperature and humidity trends of changes in the forthcoming few minutes.



Rising



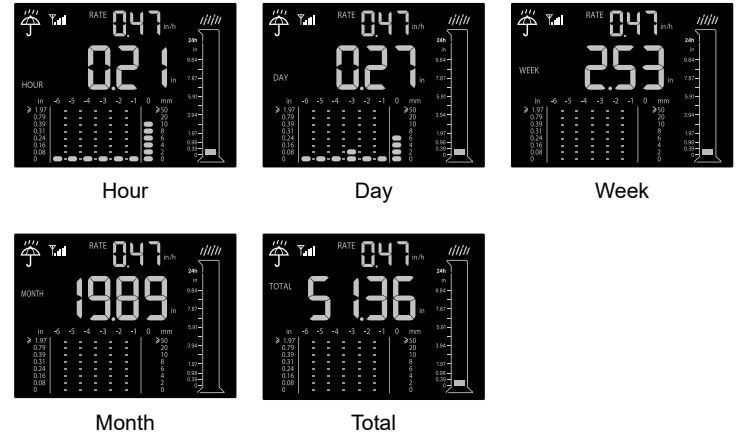
Steady



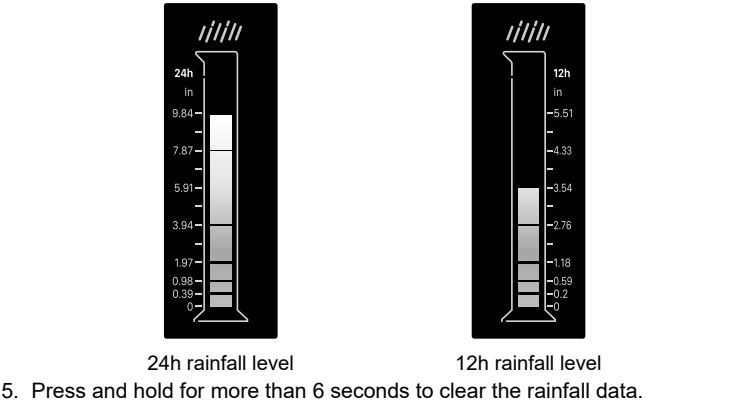
Falling

Rain rate and rain fall

1. The rain rate and rainfall data are displayed at the top of the screen.
2. Press [RAIN] key to switch between hourly, daily, weekly, monthly and total rainfall information as follows. The rainfall bar chart is only available when selecting “HOURLY” or “DAY”, the rainfall records of the past 6 hours / days will be displayed.



4. Press and hold [RAIN] key for 2 seconds to view the 12-hour or 24-hour rainfall level.



Rainfall history

In normal mode, press [HISTORY] key to view hourly rainfall from the past 24 hours and the 📅 icon will appear on Time & Date section.

Max/min record

The console retains the MAX/MIN weather data recorded since the last manual reset.

1. In normal mode, press [+ Ⓜ] key once to show the indoor and channel 1–3 maximum temperature and humidity records of the day.
2. Press [+ Ⓜ] key twice to show the minimum records of the day.
3. Press [+ Ⓜ] key three times to show the maximum records since the last manual reset.
4. Press [+ Ⓜ] key four times to show the minimum records since the last manual reset.
5. Press [+ Ⓜ] key five times to exit.

Low battery icon

1. When low battery indicator “🔋” is displayed near the icon 🌧, it indicates that the battery power of the wireless rain gauge is low. Please replace with new batteries.
2. When low battery indicator “🔋” appears near the optional thermo-hygro sensor icon, it indicates that the sensor’s battery power is low. Please replace with new batteries.
3. When low battery indicator “🔋” appears in the time section, it indicates that the console backup battery power is low. Please replace with new battery.

Specifications

Dimensions (W x H x D)	4.25 x 5.63 x 1.16 in (108 x 143 x 29.5mm)
Weight	0.47lb (213g) without batteries
Power source	DC5V, 600mA adapter (Included)
Backup battery	2 x AA size 1.5V batteries (Not included)
Operating temperature range	23°F to 122°F (-5°C to 50°C)
Display temperature range (In / CH)	-40°F to 158°F (-40°C to 70°C)
Display humidity range (In / CH)	1% to 99 % RH
Resolution of temperature	1 decimal place of °C/°F (above -10°C / 14°F) Integer of °C/°F (below -10°C / 14°F or above 100 °F / 37.8°C)
Resolution of humidity	1%
Temperature Accuracy	<32°F ± 3.6°F (<0°C ± 2°C) 32 to 104°F ± 1.8°F (0 to 40°C ± 1°C) > 104°F ± 3.6°F (> 40°C ± 2°C)
Humidity Accuracy	1 to 39% RH, ± 8% RH, at 77°F (25°C) 40% to 70% RH, ± 5% RH, at 77°F (25°C) 71% to 99% RH, ± 8% RH, at 77°F (25°C)
Support sensors	up to 3 wireless thermo-hygro sensors (optional)
RF frequency	434.01MHz
Atomic clock signal	WWVB

Wireless rain gauge

Dimensions (W x H x D)	5.93 x 4.45 x 4.11 in (150.5 x 113 x 104.5 mm)
Weight	0.39lb (175g) without batteries
Main power	2 x AAA size 1.5V batteries (Lithium battery recommended for low temperature environment)
Weather data	Rain rate and rainfall
RF frequency	434.01MHz
RF transmission range	328ft (100m) straight distance
Transmission interval	60 seconds
Operating temperature range	-40 to 140°F (-40 to 60°C)
Operating humidity range	1% to 99% RH

Wireless thermo-hygro sensor

Dimensions (W x H x D)	2.44 x 2.95 x 0.71 in (62 x 75 x 18 mm)
Weight	0.10lb (47g) without batteries
Main power	2 x AAA size 1.5V batteries (Lithium battery recommended for low temperature environment)
Weather data	Temperature and humidity
RF frequency	434.01MHz
RF transmission range	328ft (100m) straight distance
Temperature Accuracy	<32°F ± 3.6°F (<0°C ± 2°C) 32 to 104°F ± 1.8°F (0 to 40°C ± 1°C) > 104°F ± 3.6°F (> 40°C ± 2°C)
Humidity Accuracy	1 to 39% RH, ± 8% RH, at 77°F (25°C) 40% to 70% RH, ± 5% RH, at 77°F (25°C) 71% to 99% RH, ± 8% RH, at 77°F (25°C)
Number of channels	3 (CH1–3)
Transmission interval	60 seconds
Operating temperature range	-4 to 140°F (-20 to 60°C)
Operating humidity range	1% to 99% RH

FCC statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and;
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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 the equipment does not 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 the 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.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. That changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The provided shielded USB cable must be used with this unit to ensure compliance with the class B FCC limits.
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.