PROFESSIONAL WEATHER STATION

Features:

} Perpetual Calendar Up to Year 2099

} Automatic calibration of network time service

} Day of week in 8 languages user selectable: English, German, Italian, French, Spanish, Dutch, Danish and Russian

} Two daily alarms

} Automatic snooze function (OFF or 5~60min)

} Temperature:

— Indoor temperature measurement ranges:0°C (32°F) to 50°C (122°F)

— Outdoor temperature measurement ranges: -40°C (-40°F) to70°C (158°F)

} Humidity:

— Indoor and humidity measurement ranges: 20% to 95%

} Air pressure:

— Air pressure range: 600 to 1100 hPa (17.72 to 32.48 inHg or 450 to 825.1 mmHg)

} Rain

— Rain range: 0 to 9999mm (0-393.6 inches)

} Wind

— Wind speed range: 0 to 180 km/h (0 to 111 mph)

— Wind direction range: 0 to 359 degrees

} Light and UV index

— Light range: 0 to 128 klux (0 to 1378 kfc)

— UV index: 0 to 15 level

} Wireless Outdoor Sensor:

— 433.92MHz RF transmitting frequency

— 100 meters (300 feet) transmission range in an open area, not including walls or floors.

} Record of temperature, humidity, wind speed and rainfall

} Display of feels like temperature, wind chill temperature, heat index, dew point temperature

} Future weather forecast and forecast temperature function, weather forecast information provided by the network

} Connects directly to Wi-Fi network

} Level 3 display backlight

} USB charging function

} Power Supply:

Weather station:

Power Adapter: DC5V1.2A

Battery: 2 x LR6 AA 1.5V

Multi-combination Wireless Remote Sensor:

Battery:3 x LR6 AAA 1.5V

Temperature | Humidity Wireless Remote Sensor

Battery:2 x LR6 AAA 1.5V

F.Y.I.:

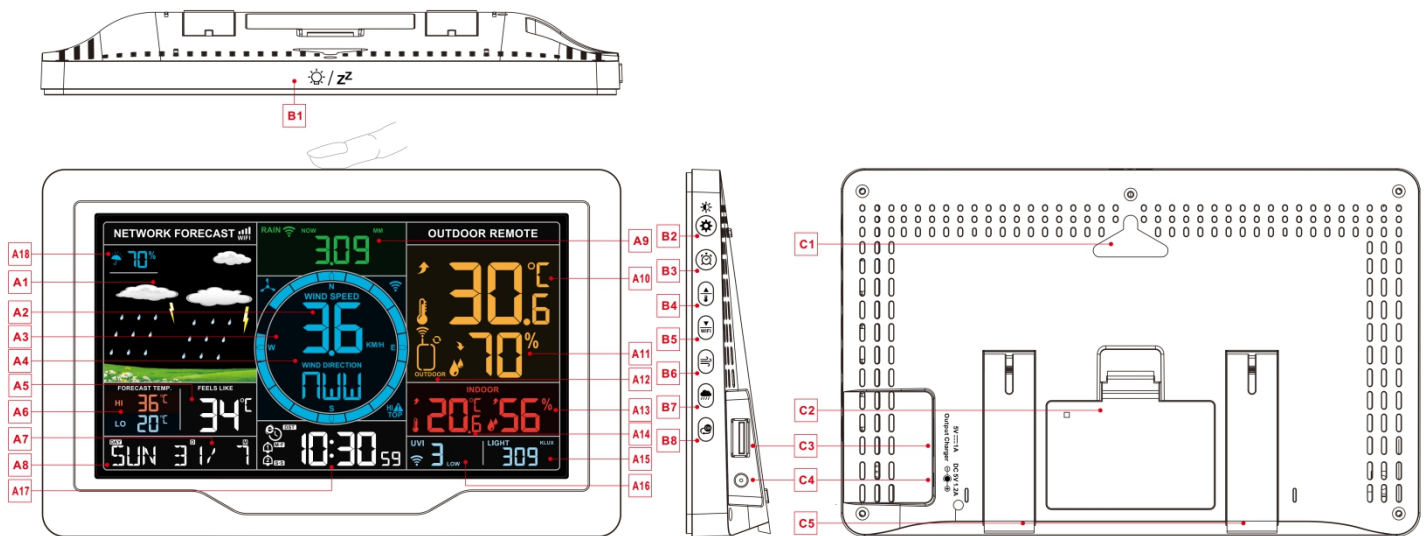The wireless remote sensor can work at -30°C to +70°C. Please choose the right battery according to the limit temperature of the wireless sensor: Alkaline zinc manganese battery can work at -20°C to +60°C

Polymer lithium ion rechargeable battery can work at -40°C to +70°C.

Weather Station Appearance

Part A-Positive LCD

A1: Weather forecast

A2: Value of wind speed

A3: Wind direction steering wheel

A4: Wind direction or wind top speed of 1Hr

A5: Feels like temperature

A6: Today's forecast highest and lowest temperature

A7: Calendar

A8: Day of the week

A9: Rainfall

A10: Outdoor temperature

A11: Outdoor humidity

A12: Outdoor wireless channel

A13: Indoor temperature

A14: Indoor humidity

A15: Air pressure and light intensity

A16: UV index

A17:Time

A18: Rainfall prediction probability

⊙ Network time   Icon

📶 : Wireless receiving icon

DST Summer time icon

↻: Wireless channel loop icon

① Alarm 1 icon

WIFI: WIFI icon

② Alarm 2 icon

▪ⅢⅠ:WIFI signal strength indicator

M-F Monday-Friday repeat alarm icon

⋏ Wind icon

S-S Saturday-Sunday repeat alarm icon

↑ Temperature | humidity up trend arrow

Zᶻ Alarm snooze icon

↓ Temperature | humidity down trend arrow

▱: Battery low pressure icon

Part B –Buttons

B1: "☼ / Zᶻ"snooze and backlight touch location

B5: "▾WIFI" down and wifi button

B2: " ✿ " and " ☀ " set and brightness of the backlight button

B6: "⇉" wind button

B3: "⏰" alarm button

B4: "🌡" up and temperature record button

B7: "☁🌧" rain button

B8: "🔄" channel button

Part C –Exterior

C1: Hanging hole

C3: USB charging socket

C5: Support frame

C2: Battery compartment

C4: Power supply socket

Multi-combination Wireless Remote Sensor Appearance
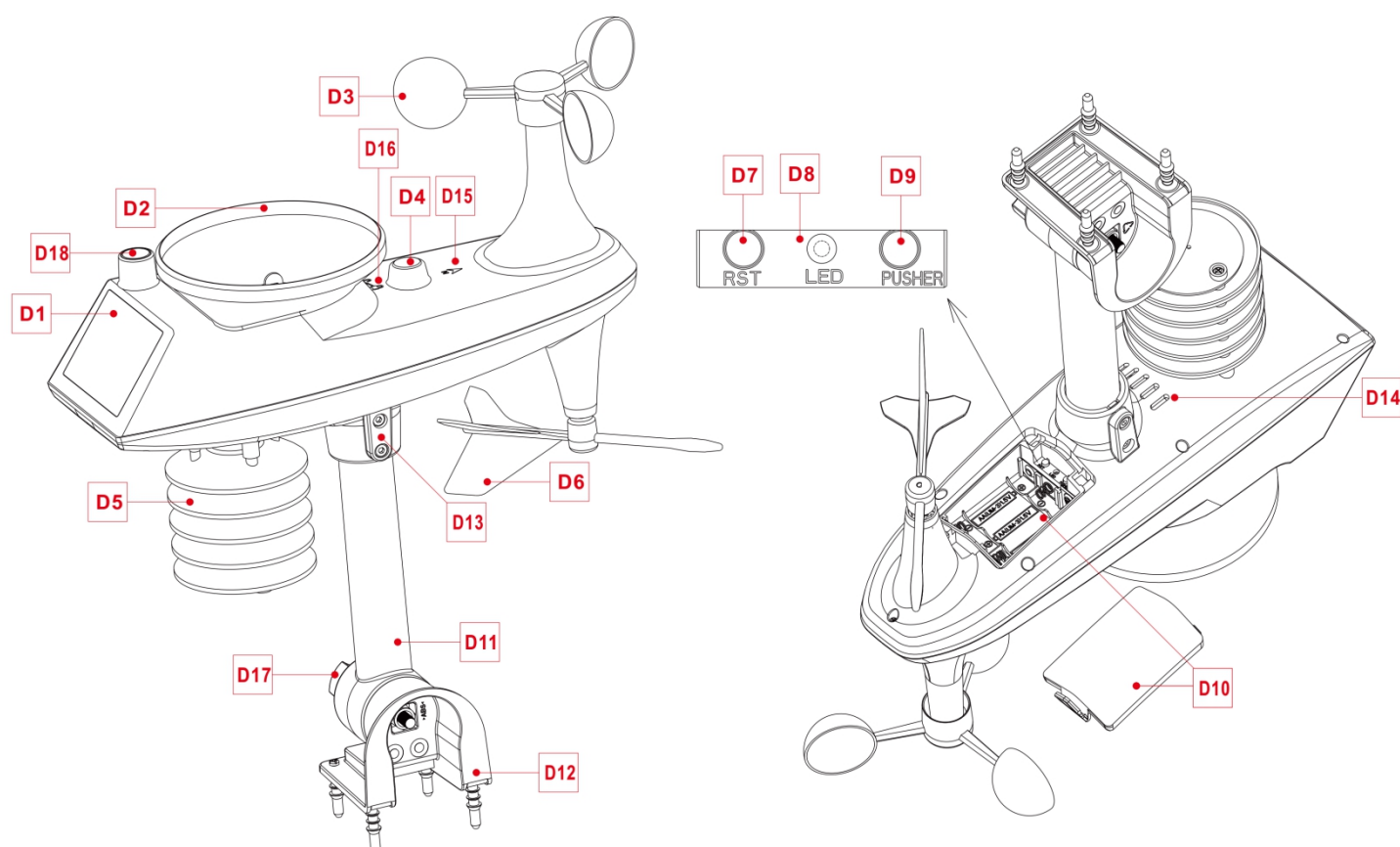
Part D –Exterior

D1: Solar panel

D3: Wind cups

D5: Temperature | humidity induction box

D7: Reset button

D9: Manual transmit signal button

D11: Support rod

D13: Socket head cap screws

D15: North direction mark

D17: Large nut for fixing the support rod and the base

D2: Rain funnel

D4: Bubble level

D6: Wind Directional Vane

D8: LED indicator

D10: Battery compartment

D12: Fixed base

D14: Drain vents For rain sensor

D16: Rain funnel rotation mark

D18: Lighting and UV sensors

Temperature | Humidity Wireless Remote Sensor Appearance
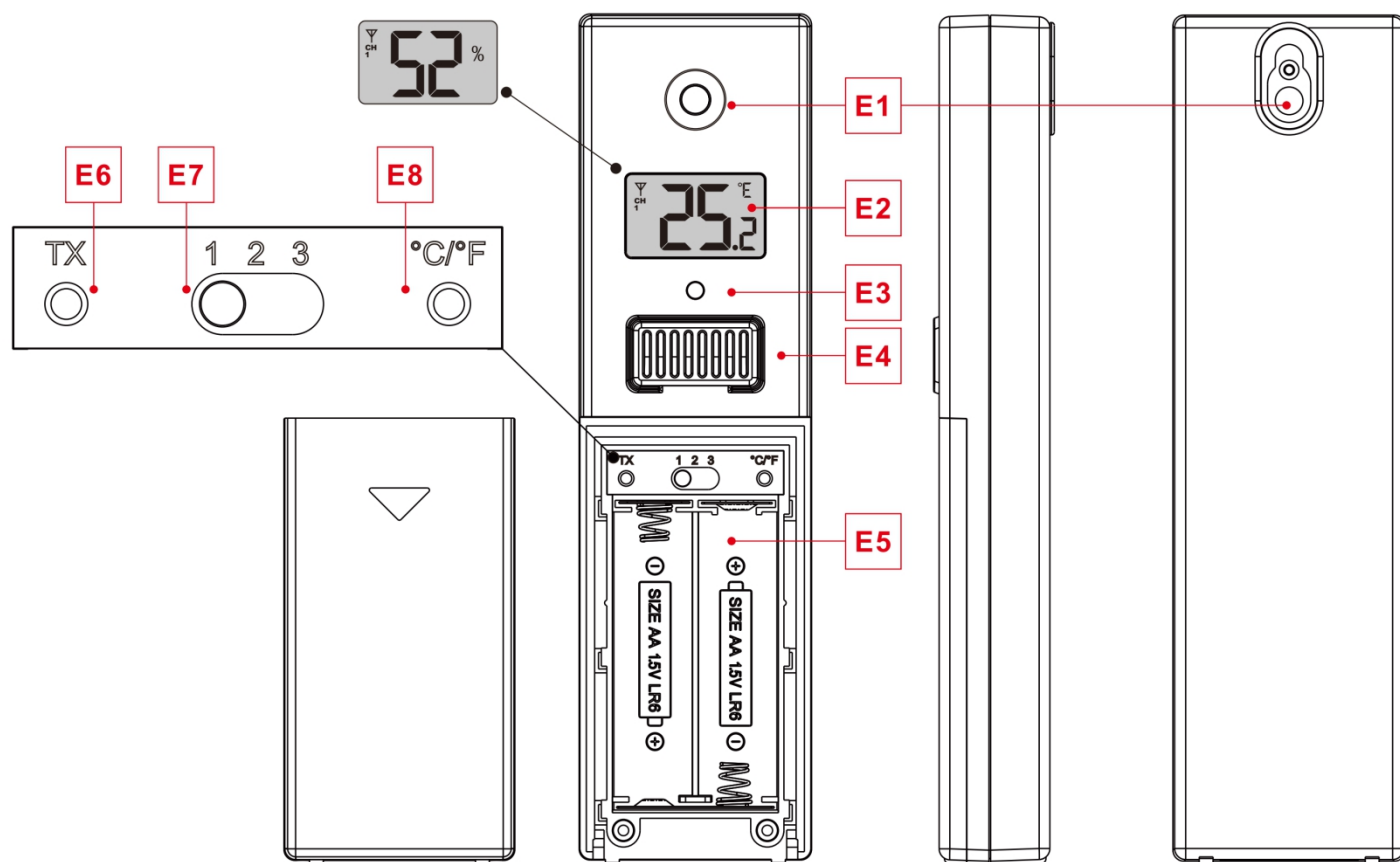
Part E –Exterior

E1: Hanging hole

E2: LCD display

E3: LED indicator

E4: Temperature | Humidity sensing louver

E5: Battery compartment

E6: Manual transmit signal button "TX"

E7: "CHANNEL 1 or 2 or 3" switch

E8: Reset button

Setup Preparation

Items you will need to setup your station (not included):

1. Crosshead screwdriver and hex driver for assembly.

2. Fresh Batteries:

> 2 (two) AA alkaline or lithium batteries for the weather station.

> 3 (three) AA alkaline or lithium batteries for the multi-combination sensor.

> 2 (three) AA alkaline or lithium batteries for the temperature | humidity sensor (Optional)

For best results:

> • Remove weather station and sensors from the package and place together on a table or bench, within easy reach.

> • Place batteries and screwdriver within reach of setup location.

> • Keep sensors and weather station 0.15-0.3 meter or 5-10 feet for at least 15 minutes after installing batteries, to allow the sensors and station to connect repeatedly.

Quick Setup

1. Insert 3 AA batteries into the multi-combination wireless remote sensor

2.3-AA battery entry temperature | humidity wireless remote sensor

3. Then plug the power cord into the weather station

4. Download the corresponding APP on the mobile phone, open the APP, register the user and log in, and pair the weather station with the WIFI and server information according to the prompt of the APP.

5. Configure basic settings. Set time, date, unit, etc.

6. Insert 2 AA batteries into the weather station (when the power adapter is unexpectedly powered off, the settings will not be lost)

7. Move the remote sensor to outdoor or other location after 5 minutes

Pairing weather station device with smart phone

} **APP software installing for smart phone**

> **DOWNLOAD APP:**

> Hardware Requirements: iPhone 6S (or above) enabled smart device

> Software Requirements :   iOS 8.0 (or above) or Android 6.0 (or above)

> Download APP (**WeatherSense**)
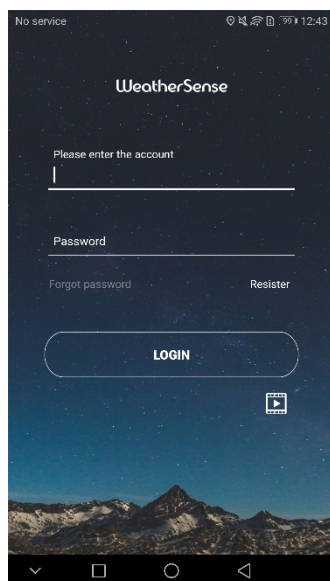
> Download IOS APP application software URL:

>> https://itunes.apple.com/cn/app/weathersense/id1273633929?mt=8

Download Android APP application software URL:

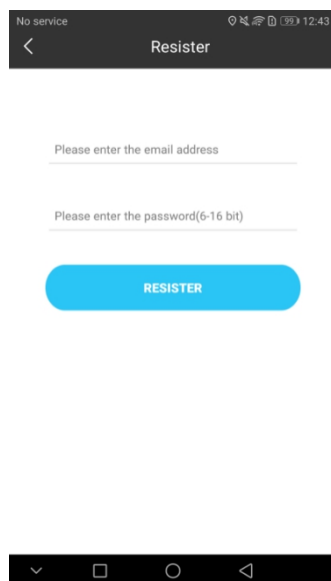https://play.google.com/store/apps/details?id=com.emax.weahter
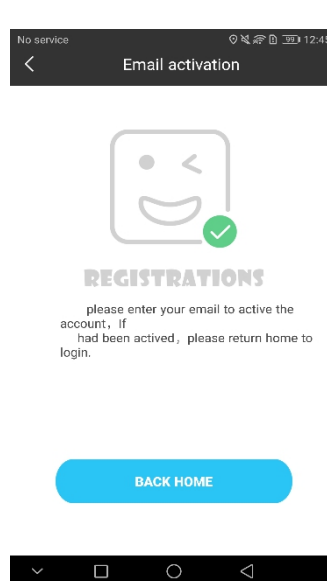

} **User registration:**

Follow in-app instructions to create an account, after registration is completed, enter the mailbox for account activation

Account login and register   Account registration   mailbox account activation

} **Pairing with weather station device**

1. Login user account

2. Make sure your phone is connected to a 2.4GHz Wi-Fi network. and Bluetooth function is turned on. (WiFi weather station currently only support 2.4GHz Wi-Fi network during configuration)

3. Plug in weather station with AC/DC power, Press and hold "WIFI" button for 3 seconds until "WI-FI AP" blinking on the device display. If the device is first enabled, it will automatically enter AP mode, and "WI-FI AP" blinks on the display.

4. Please select "**W003**" for the connection method. After the new device search is completed, please find and select "**WeatherType**".

5. Select the correct Wi-Fi network SSID and Make sure Wi-Fi password you're inputting is correct.

6. Follow the in-app instructions to pair the weather station device:

    When the notice of Device binding successful appears in the App. The weather station device will automatically exit AP mode. If not please press and hold "WIFI" button for 3 seconds to exit it.

7. Confirm the city of your current location:

    Make sure your phone's location service are turned on and allowed for this App.

Make sure that your current location city can be successfully located in the map. Some cities may fail to locate because there is no corresponding success in the app. You can manually move the location or be automatically positioned to a large administrative level city.

8. The device will connect to your home Wi-Fi network automatically in few minutes. Wi-Fi and signal symbol and All weather data will be displayed after Wi-Fi is successfully connected.
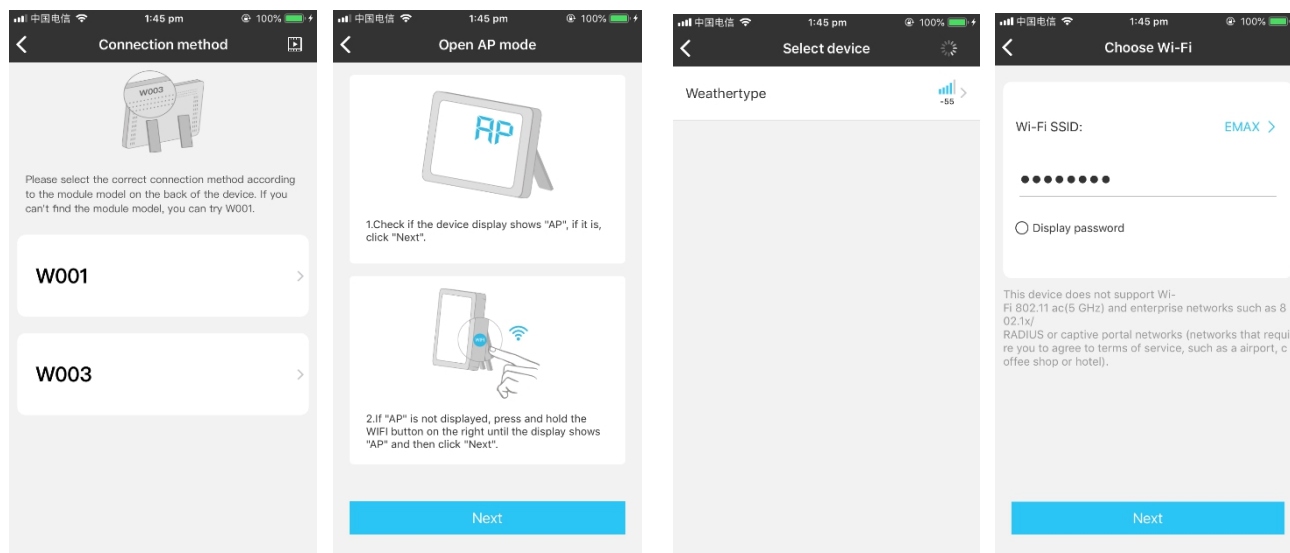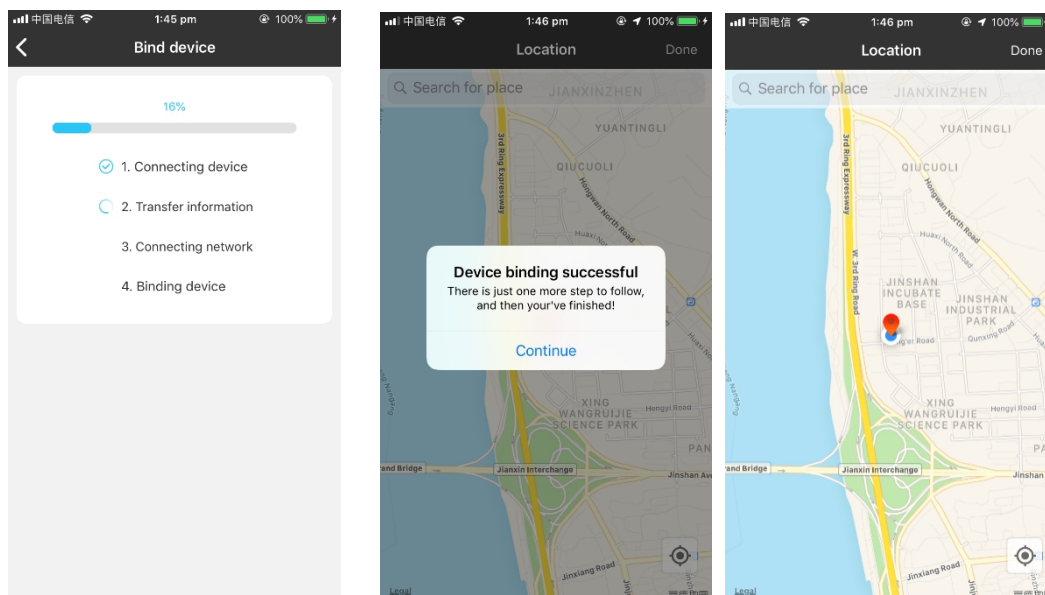
Choose W003	Make sure the device enter AP mode	Select the device name "Weathertype"	Input correct Wi-Fi password

Bind the device	Device binding successful	confirm your location

Note: after the power AC/DC adapter is disconnected, the WIFI connection of the device will be automatically disconnected.

Time and unit settings

} Press and hold the "✿" button for 3 seconds to enter the time setting mode.

} Press and release the "☀" or "▼WIFI" button to adjust the value. Hold the "☀" or "▼WIFI" button to adjust quickly.

} Press and release the "✿" button to confirm and move to the next item.

Note: After 20 seconds without pressing any button or touch the "☀/zᶻ" location button at any time to exit the settings.

Settings order:

1. BEEP ON/OFF

2. Time zone: -12 to +12 hr

3. Auto DST(Daylight saving time): ON |OFF

4. Hour format: 24Hr | 12Hr

5. Hour

6. minutes

7. Calendar display format: Month/Date | Date/Month

8. Year

9. Month

10. Date

11. Week display language: a total of seven countries

12. Temperature unit: °C | °F

13. Wind speed unit: KM/H |MPH

14. Wind degree (angle) or direction (letter) selection

15. Rainfall unit: MM| inch

16. Pressure unit: hPa| inHg | mmHg

17. Light unit: KLUX | KFC

Note: After receiving the correct network time, the time zone will automatically become the time zone of the weather station location. be normal.

Note: When DST is not required in the area where the weather station is located, set AUTO DST to OFF, and when the network is timed, the time will be normal.

Note: In the set time, the number of minutes of the change, automatically from the zero second forward

Note: There are 8 languages of Weekday: English, Deutsch, Français, Italian, Español, Nederlands, Dansk and Russian.

Week language display

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
English, ENG	SUN	MON	TUE	WED	THU	FRI	SAT
German, GER	SON	MON	DIE	MIT	DON	FRE	SAM
French, FRE	DIM	LUN	MAR	MER	JEU	VEN	SAM
Spanish, SPA	DOM	LUN	MAR	MIE	JUE	VIE	SAB
Italian, ITA	DOM	LUN	MAR	MER	GIO	VEN	SAB
Dutch, DUT	ZON	MAA	DIN	WOE	DON	VRI	ZAT
Danish, DAN	SON	MAN	TIR	ONS	TOR	FRE	LOR
Russian, RUS	BOC	ПОН	BTO	CPE	ЧЕТ	ПЯТ	СУБ

Alarm function control

} Press and release the "⏰" button to view the alarm 1 time, press and release the button to view the alarm 2 time, the third release and release the button to exit the viewing mode.

} In the mode of viewing the alarm 1 time or the alarm 2 time, press and release the "✿" button to control its alarm function to be turned on or off.

    Note: When the function of Alarm 1 or Alarm 2 is turned on, the symbol "①" or "②" is displayed. At the same time, the relevant alarm repeat symbol "M-F" | "S-S" is displayed

    Note: After 20 seconds without pressing any button or touch the "☼ / zᶻ" location button at any time to exit the view mode.

Alarm and Snooze settings

} Press and hold the "⏰" button for 3 seconds to enter the alarm and snooze setting mode.

} Press and release the "▲" or "wifi" button to adjust the value. Hold the "▲" or "wifi" button to adjust quickly.

} Press and release the "⏰" button to confirm and move to the next item.

    Note: After 20 seconds without pressing any button or touch the "☼ / zᶻ" location button at any time to exit the settings.

Settings order:

1. Alarm 1 hour
2. Alarm 1 minutes
3. Alarm 1 repeat: M-F | S-S | M-S
4. Alarm 1 snooze time: 5 to 60minutes | OFF
5. Alarm 2 hour
6. Alarm 2 minutes
7. Alarm 2 repeat: M-F | S-S | M-S
8. Alarm 2 snooze time: 5 to 60minutes | OFF

    Note: The alarm is repeatedly set to M-F, the alarm function will be activated from Monday to Friday, the Saturday and Sunday will be invalid. The alarm is repeatedly set to S-S, and the alarm function will be activated on Saturday and Sunday, and will expire from Monday to Friday. When the alarm is repeatedly set to display both M-F and S-S, the alarm function will be activated throughout the week.

    Note: The snooze time setting range: 5 ~ 60MIN, OFF, when set to OFF, means no snooze function. Snooze time unit is minutes.

    Note: The alarm will sound for 1 minutes if you do not deactivate it by pressing any button. In this case the alarm will be repeated automatically after 24 hours.

    Note: Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.

Switching off the alarm signal

} The alarm sound when the trigger, press any buttons except the "☼ / zᶻ" touch button or touch and hold the "☼ / zᶻ" button for more than 3 seconds to stop the alarm signal.

Snooze function:

} When the time is up to the alarm, touch and release the " ☼ / z^z " touch button, the alarm signal stops, and enter the snooze timing mode. At the end of the snooze timer, it will ring again (can repeat snooze)

} In snooze timing mode, press any buttons except the " ☼ / z^z " touch button or touch hold down the " ☼ / z^z " touch button for more than 3 seconds to exit the snooze mode

Temperature | Humidity Readings | History | Trend

} Press and release the " ▲ " button to view High | Low temperature and humidity and feels like temperature, dew point temperature, heat index, wind chill index.

} In the view High | Low temperature or humidity mode, press and release the " CH " button to switch to view the records of other channels.

   Note: feels like temperature, dew point temperature, heat index and wind chill index is related to the value detected by the multi-combined wireless remote sensor.

} In the mode of viewing temperature | Humidity history, press and hold the " ▲ " button for 3 seconds to clear all history of indoor | outdoor remote temperature | Humidity.

   Note: Indoor | outdoor remote temperature | Humidity reading will reset to current value.

   Note: After 20 seconds without pressing any button or touch the " ☼ / z^z " location button at any time to exit the view mode.

} Indoor | outdoor remote temperature | humidity will have trend change tips

   ➚   : Temperature / humidity is rising.

   ➘   : Temperature/humidity drops.

   No display: temperature/humidity remains unchanged.

Air Pressure | Light Intensity | UV Index Reading

} In the main display interface, press and hold the " ▲ " button for 3 seconds to convert the display to air pressure or light intensity.

} There are five status indications for the UV Index: LOW (0 to 2), MODERATE (3 to 5), HIGH (6 to 7), VERY HIGH (8 to 10), EXTREME (11+).

Wind Readings | History

} In the main display interface, press and hold the " ⇉ " button for 3 seconds to convert the display to wind direction or display as 1 hour top speed

   Note: WIND SPEED: average speed over the past 30 seconds

      1HR TOP SPEED: Highest speed in the past hour

      WIND DIRECTION: In letters or degrees

   Note: The conversion is displayed as a wind direction display or 1 hour top speed can only be operated under the main display interface.

} View history: Press and release the " ⇉ " button to view the maximum wind history values: 1 Hour (default) | 24 Hour | 7 Days | Month | Year

   Note: One Hour: past 60 minute period (default Top Speed record, already shown)

      24 hour: Past 24 hour period, from last record

      7 Days: Past 7-day period, from last record

Month: Defned by Calendar Month i.e. January 1 - January 31

Year: Defned by Calendar Year i.e. January 1 - December 31

} In the mode of viewing wind speed history, press and hold the "⇒" button for 3 seconds to clear all history of wind speed.

Note: Wind speed reading will reset to current wind speed.

Note: After 20 seconds without pressing any button or touch the "☼/z^Z" location button at any time to exit the view mode.

Rain Readings | History

} In the main display interface, press and hold the "☁" button for 3 seconds to convert the display to cumulative value of rainfall or rate of rainfall

Note: Rainfall: from current to past (1 hour | 24 hours | day | 7 days | month | year | total) total accumulated rainfall

Rainfall rate: average rainfall over the past 12 hours per hour

} Press and release the "☁" button to view the rain history

Note: NOW: cumulative value over the past 30 minutes

HOUR: cumulative value over the past 60 minutes

24 HOURS: The cumulative value of the past 24 hours.

DAY: 24 hr period from 0:00 – 23:59(12:00am - 11:59pm). Cumulative value with today

7 DAYS: In the past 7 days, the cumulative value of the last record begins

MONTH: The cumulative value defined by the calendar month (ie January 1st - January 31st).

YEAR: The cumulative value is determined by the calendar year, from January 1 to December 31.

TOTAL: The cumulative value of the total run time (no time stamp) since the weather station was started

} In the mode of viewing rain history, press and hold the "☁" button for 3 seconds to clear all history of rain.

**Note:** The rain reading will reset to 0 mm (in).

Note: After 20 seconds without pressing any button or touch the "☼/z^Z" location button at any time to exit the view mode, The weather station will resume normal time display and display the last rainfall record you viewed. When the rain shows the rain rate before entering the observation mode, it still shows the rain rate when returning from the observation mode to the normal time display.

Wireless sensor connection

} The weather station can connect up to 1 Multi-combination wireless sensor and 3 different channels of temperature | humidity wireless sensor,

} The weather station automatically searches for all wireless sensors within 3 minutes of power-on and registers the sensor IDs. Each sensor generates a random ID after power-on to distinguish the sensors.

} In the main display interface, press and release the "↻CH" button to view the value of the wireless sensor on the different channels.

Note: In view mode, the ID of the wireless sensor can be displayed.

} The temperature/humidity data of the additional channel wireless sensor needs to be displayed on the normal time display interface. After selecting the channel in the viewing mode, touch the "☼/z^Z" location button to exit the viewing mode.

Note: The temperature and humidity values   shown in the OUTDOOR REMOTE column after exit are the selected channels. At the same time, in the channel icon (displaying the position of A15), the number of channels is displayed: OUTDOOR (representing Multi-combination wireless sensor) | 1 or 2 or 3 (representing 3 channels of temperature | humidity wireless sensor))

Note: When the weather station loses sensor signals or the sensor is not connected to the channel, the value of the channel is displayed as "--"

} If you need to add a new sensor or replace the sensor. In channel view mode, press and hold the "�" button for more than 3 seconds, the weather station will search for the 3 minute signal again, and the new channel sensor will be added to the weather station within 3 minutes.

    Note: When adding a new sensor or replacing a sensor (old sensor replacement battery), you need to turn on the sensor power first, then follow the steps above to control the weather station.

    Note: When the channel icon (the position of the display A15) displays the low voltage icon "▬▭", the battery of the corresponding channel wireless sensor is replaced according to the channel number of the channel icon. Then follow the steps above to re-add the wireless sensor to the weather station.
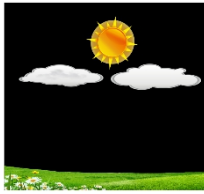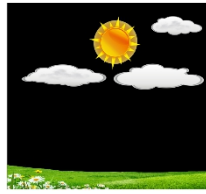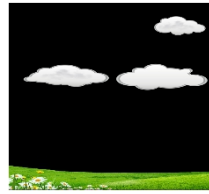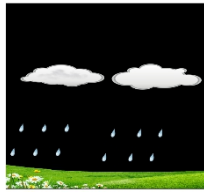
} In the normal time display interface, press and hold the "🔄" button for 3 seconds, the wireless channel in the OUTDOOR REMOTO column will enter the loop mode, and the channel will be changed every 5 seconds (OUTDOOR|CH1|CH2|CH3), and the automatic conversion display will be different. Channel temperature | humidity value

    Note: In the cycle mode, only the values of temperature and humidity are being converted, and the values of wind speed, wind direction, rainfall, etc. are not converted, and the values are still derived from the Multi-combination wireless sensor.
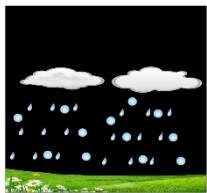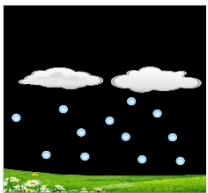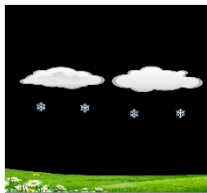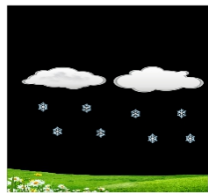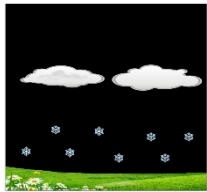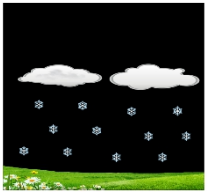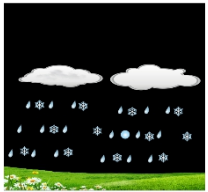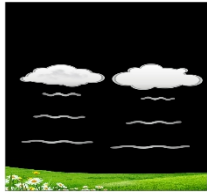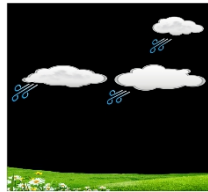
Explanation of network weather forecast

} After the weather station is connected to the WIFI hotspot, the weather information of the weather station will be automatically updated every hour after the weather forecast information obtained from the network.

} The weather station automatically downloads real-time weather data from the network, weather forecasts for the day and the next four days, and forecasts for the highest and lowest temperatures.

} The weather station automatically uploads the meteorological data (temperature, humidity, air pressure, wind speed, rainfall, etc.) detected in the station from the weather station to the server, and the APP can automatically download data from the server through the network.

} Weather forecast icon that can be displayed on the weather station :

sunny	Mostly sunny	Partly cloudy	Mostly cloudy	Cloudy
Patchy Rain	Mostly Rain	Showers	Heavy Rain	Thunder Rain
Rain and Hail	Hail	Snow and Hail	Patchy Snow	Mostly Snow
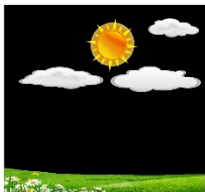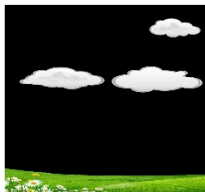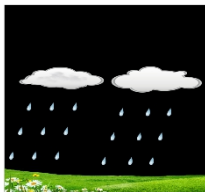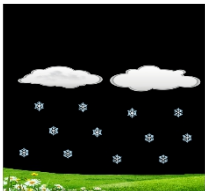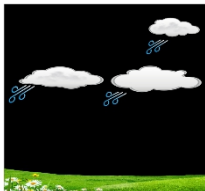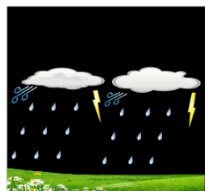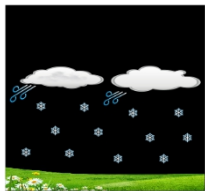
Snow shower	Heavy Snow	Rain and Snow	Foggy or Haze	windy

Weather forecast:

} When the weather station is unable to connect to WIFI, the weather station will predict the weather for the next 12 hours based on the trend of air pressure. Of course, this prediction cannot be compared to professional weather services supported by satellites and high-performance computers, and it can only provide an approximate indication of local local weather development.

} The weather station displays the following weather icon:

sunny	Mostly cloudy	Cloudy	Rainy	Thunder Rainy
Snow	Gale		Storm	Snowstorm

Note: The Snowy icon will only appear if the outdoor temperature (refers to the temperature detected by multiple combined sensors) is below -4°C (+25°F) and the forecast would be rainy or Thunder Rainy.

The Gale icon will only appear if the wind speed is above 50KM/H and the forecast would be Sunny or Mostly Cloudy or Cloudy.

The storm icon will only appear if the wind speed is above 50KM/H and the forecast would be rainy or thunder rain.

The Snowstorm icon will only appear if the outdoor temperature (refers to the temperature detected by multiple combined sensors) is below -4°C (+25°F) and the wind speed is above 50 KM / H and the forecast would be rainy or Thunder Rainy.

} After the weather station needs 7-10 days of air pressure calibration, the weather forecast will tend to be stable with an accuracy rate of 70%-75%.

Background lighting

} If the product is powered by batteries, Touch the "☼ / z^Z" location button. Backlight lit 15 seconds.

} When the power supply of the product is inserted into the power supply adapter, the battery will automatically disconnect the power supply, and the backlight will always be bright. Press the ☼ button to adjust the brightness of the backlight, you can adjust the 4 state: 3 different brightness backlight and close the backlight. When the backlight brightness is not at the maximum brightness, press the "☼ / z^Z" button. Backlight turns to maximum brightness of 10 seconds.

Note: During the reception of the time radio wave signal, the backlight will be automatically closed to prevent the interference of the radio wave.

Low battery:

} If the "Indoor sensor" column is display the battery icon "▭", you need to replace the weather station's battery as soon as possible,
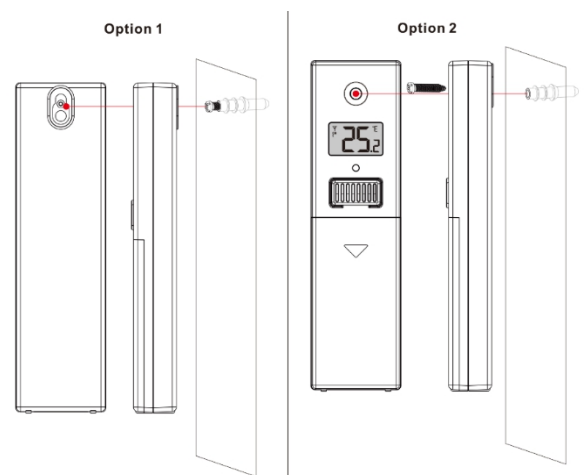
Mounting Instructions (wireless sensor)

### Temperature | Humidity Wireless Remote Sensor

Option 1:

} Mount the mounting screws to the wall.
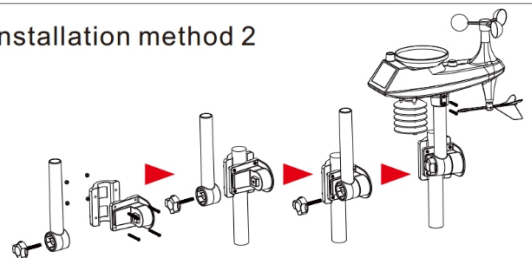
} Hang the wireless sensor on the screw.

Option 2:

} Insert the mounting screws through the front of the wireless sensor into the wall.

} Tighten the screws to fit snugly (do not overtighten).

} If the wireless sensor is placed outdoors, install the temperature | humidity wireless sensor on a north facing wall or any shadow. The sun will make it even higher.

} The guardrail under the eaves or under the deck is preferred.

} Make sure the wireless sensor is installed vertically to vent moisture.
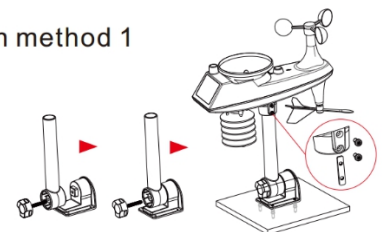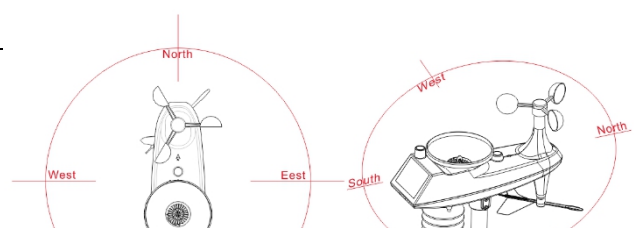
Multi-combination Wireless Remote Sensor

} Mount in an open area clear for 15 meters (50 feet) in all directions.

} The sensor needs to be mounted on a sturdy platform or bracket that is mounted 1.5 m (5 ft) above the ground.

} The base of the sensor is screwed to the platform and

Option 1   Option 2

Installation method 1

Installation method 2

the support frame. Tighten the large nut that secures the support rod to the base

} When installing, adjust the sensor body so that the solar panel faces south, otherwise the wind direction will be wrong. Note the "N" North Embossed Mark on the top of the sensor (requires a compass for proofreading, and the "N" North Emboss mark is identical to the "N" of the compass).

} When installing the sensor, use the top bubble level to ensure the sensor level, otherwise the accuracy of the rainfall reading will be affected.

} After completing the above two steps, lock the two hexagon socket screws on the side of the sensor body.

} When installing, the fixing screws of the wind cup and the wind direction cursor should be tightened and tightened.

} The rainforest structure of the sensor needs to be cleaned regularly (recommended cycle 1-3 months, depending on the frequency of rain):

1. Remove the rainwater funnel (turn the rain sand funnel according to the direction of rotation shown).

2. Gently remove debris or insects from the rain sensor.

3. Remove debris from the rainwater funnel itself, especially debris from the funnel drain.

4. Remove the debris from the drain.

5. Reinstall the rainwater bucket.

6. Note: Do not apply oil to the rain sensor.

Note: Make sure the wireless sensor is installed within 100 meters of the weather station (empty, unobstructed). According to the thickness of the obstacle between the wireless sensor and the weather station, the distance should be shortened as much as possible (the distance after the wireless signal penetrates the obstacle will be shortened), otherwise the data transmission may be disturbed.
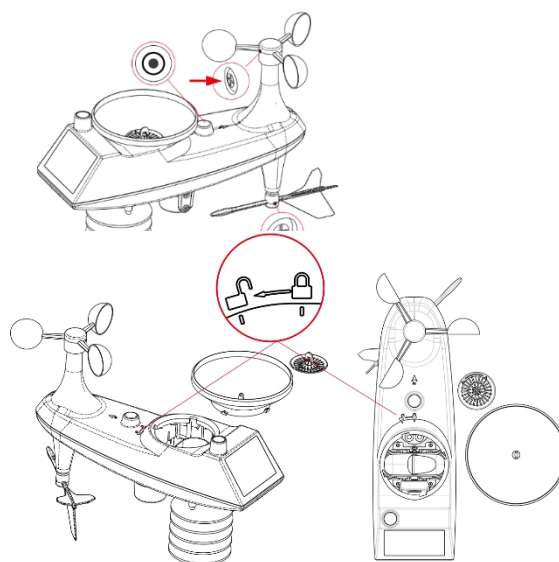
FCC Requirement

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 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.