WIFI Weather Station with Clock

Model: WEC-19W4

Technical Data and Features

Base station:

- Perpetual Calendar Up to Year 2099
- Day of week in 8 languages user selectable: English, German, Italian, French, Spanish, Dutch, Danish and Russian
- Time in optional 12/24 hour format.
- Automatic calibration of network time service
- Barometric pressure:
  - — Air pressure data source network
  - — Pressure alternatively in hPa/mb or inHg or mmHg
- Wind speed and direction:
  - —Wind speed and direction data source network
  - —Wind speed alternatively in km/h or Mph
- Indoor humidity measurable range: 20%RH to 95%RH
- Indoor temperature:
  - — Temperature measurement ranges:-20°C to 60°C or(-4°F to 140°F)
  - — Temperature alternatively in °C or °F.
- Minimum/maximum display for humidity and temperature
- Feels like temperature data source network
- The future weather forecast and temperature report function, weather forecast information provided by the network
- Connects directly to Wi-Fi network
- Power Supply:

  Battery: 2 x LR6 AA and mains adapter: DC5V 1.2A

Wireless Outdoor Sensor:

- — Outdoor temperature measurement ranges: -40°C (-4°F) ~ 70°C (158°F)
- — Outdoor measurable range: 20%RH to 95%RH
- — Data transmission frequency: 433 MHz
- — Wireless range: max. 60 m (open area)
- — Batteries: 2 x LR06 (UM-3), 1.5 V (size AA)
- — Protection class: IPX4

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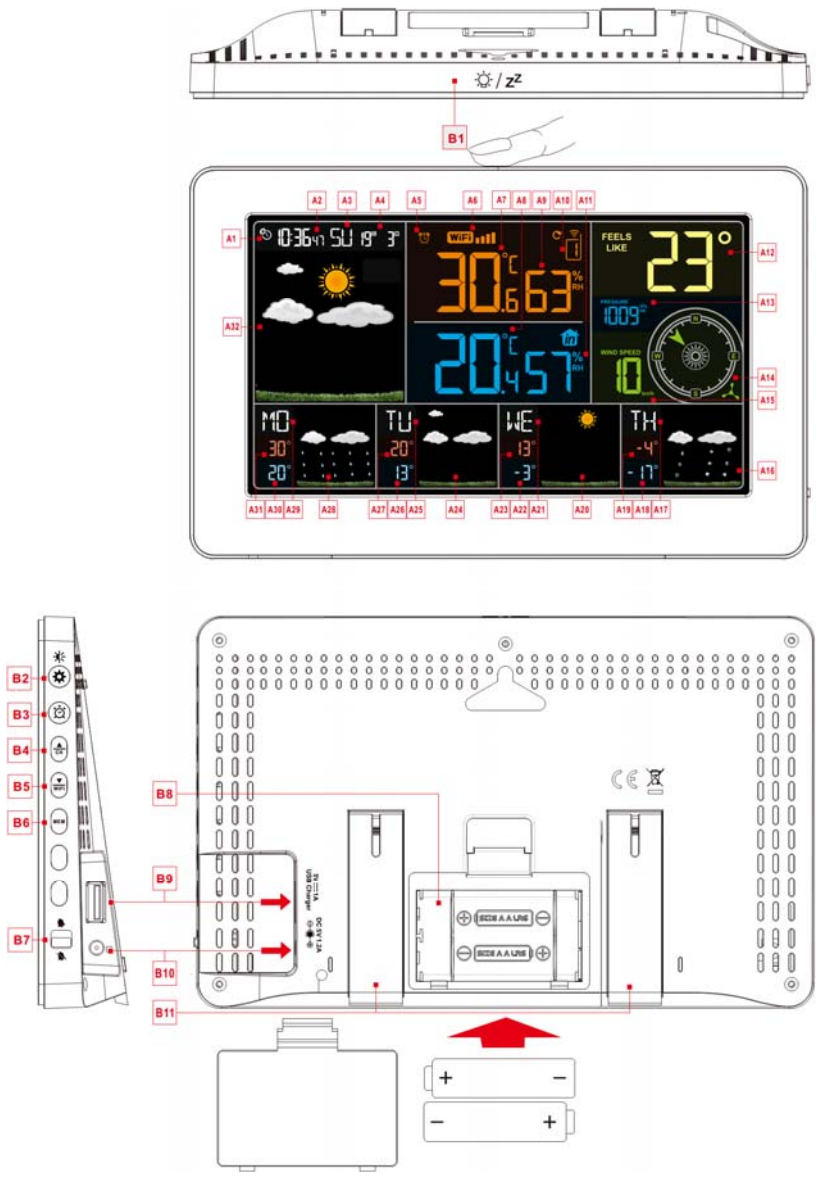
Base station Appearance:



Part A-Positive LCD

A1: Network Time icon

A2: Time

A3: Week for today

A4: Calendar

A5: ALARM icon

A6: WIFI icon

A7: Indoor Temperature

A8: Outdoor Temperature

A9: Indoor Humidity

A10: Remote wireless channel

A11: Outdoor Humidity

A12: Feels Like Temperature

A13: Barometric pressure

A14: Wind Direction

A15: Wind Speed

A16: Weather forecast for the next forth days

A17: Week for the next forth days

A18: Minimum temperature forecast for the next forth days

A19: Maximum temperature forecasts for the next forth days

A20: Weather forecast for the next third days

A21: Week for the next third days

A22: Minimum temperature forecast for the next third days

A23: Maximum temperature forecasts for the next third days

A24: Weather forecast for the next second days

A25: Week for the next second days

A26: Minimum temperature forecast for the next second days

A27: Maximum temperature forecasts for the next second days

A28: Weather forecast for tomorrow

A29: Week for tomorrow

A30: Minimum temperature forecast for tomorrow

A31: Maximum temperature forecast for tomorrow

A32: Weather forecast for today

Part B – Back button and power

B1: "☼ / zZ" touch field

B2: "⚙" and "☼" button

B3: "⏰" button

B4: "▲ CH" button

B5: "▼ WIFI" button

B6: "**MEM**" button

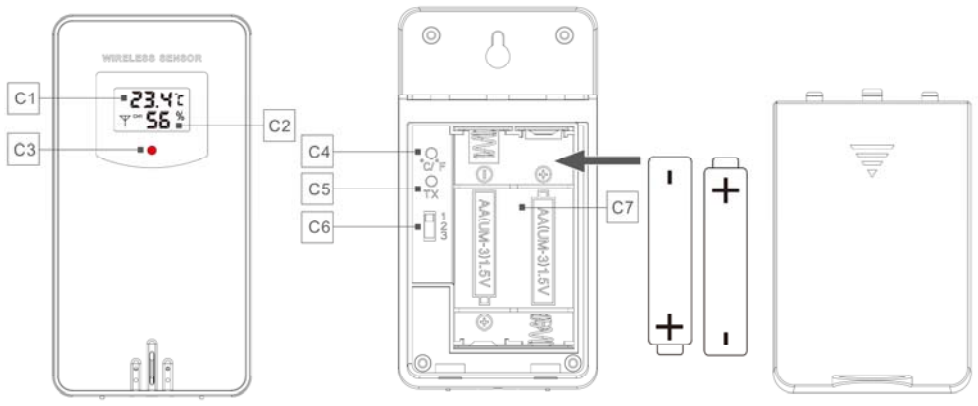
B7: Alarm on/off shift switch

B8: Battery compartment

B9: USB charger output socket

B10: Power supply socket

B11: Support frame



Part C –Wireless Outdoor Sensor:

C1: LCD display – Temperature

C2: LCD display – Humidity

C3: Transmit signal LED

C4: "°C/°F" button

C5: "TX" button

C6: Channel selector switch

C7: Battery compartment

Initial operation:

- Open Wireless Outdoor Sensor battery compartment cover , Push the Channel selector switch in the battery compartment of the Wireless Outdoor Sensor, set the correct channel you want ,Insert 2 x AA batteries observing polarity [“+” and “–“ marks]
- When you insert the batteries, all the icon on the LCD display will briefly light up for 3 seconds, the Wireless Outdoor Sensor began to switch to the normal working mode, to detect the temperature and humidity in the environment . At this time, the sensor will transmit 1 wireless signals, and the interval of about 1 minutes will automatically transmit the 1 wireless signal, each transmitted 1 wireless signal emission sensor indicator will flash 1 times.
- The Weather Station will start to make a connection to the outdoor remote sensor. This operation takes about 3 minutes and is displayed by a flashing reception RF antenna symbol “” in the “OUTDOOR” display area. indicating the base station is searching for the signal from the outdoor sensor.
- 2 x AA batteries are a backup power supply of the weather Station, which can ensure the normal operation of the base station after the power adapter is unexpectedly cut off.

Pairing weather station device with smart phone

- **APP software installing for smart phone**

DOWNLOAD APP:

Available on the App Store Available on the Google play

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:

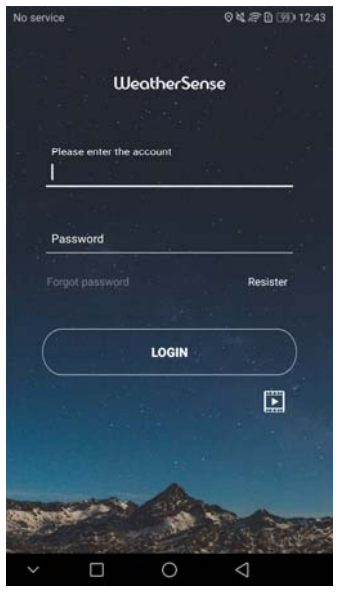
https://itunes.apple.com/cn/app/weathersense/id1273633929?mt=8

Download Android APP application software URL:

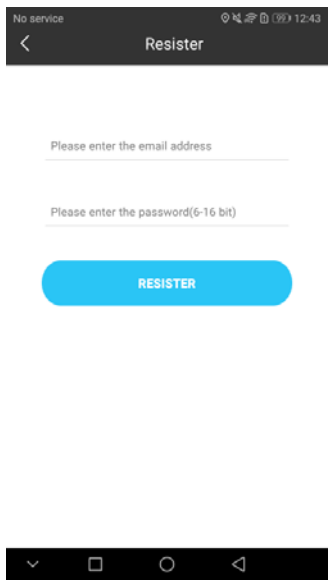
https://play.google.com/store/apps/details?id=com.emax.weahter

User registration：

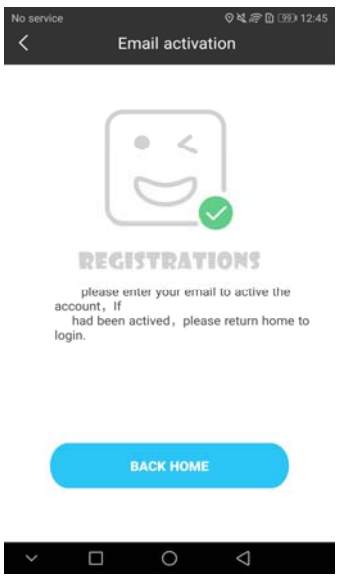
Follow in-app instructions to create an account, after registration is completed, enter the mailbox for account activation



Account login and register



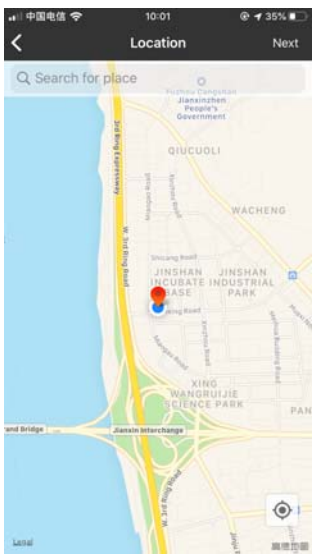
Account registration



mailbox account activation

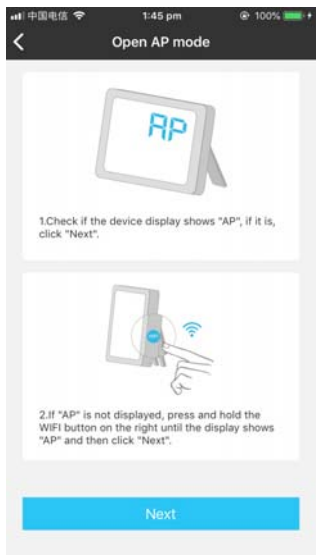
Pairing with weather station device

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 “Wi-Fi” button for 3 seconds until “AP” blinking on the device display. If the device is first enabled, it will automatically enter AP mode, and “AP” blinks on the display.
4. Back to APP and 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.
5. Connection method please select **W003.**
6. After new device searching complete please find and select “**WeatherType**”.
7. Select the correct Wi-Fi network SSID and Make sure Wi-Fi password you’re inputting is correct.
8. 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 “Wi-Fi” button 3 seconds to exit it.
9. 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.

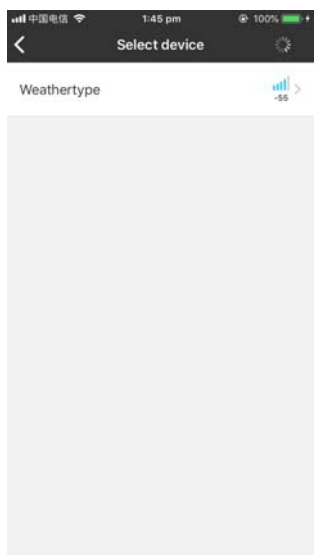


Confirm your location

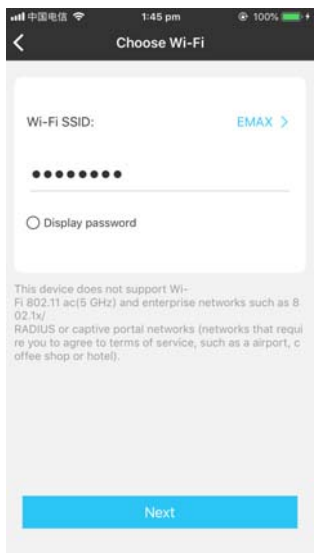
Choose W003



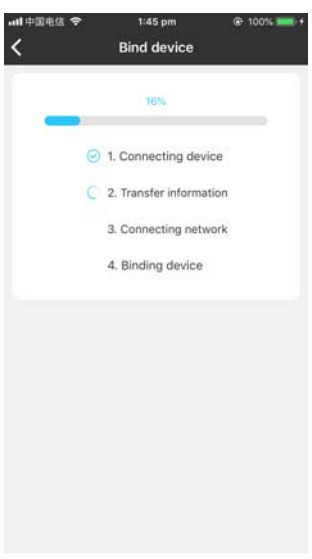
Make sure the device enter AP mode



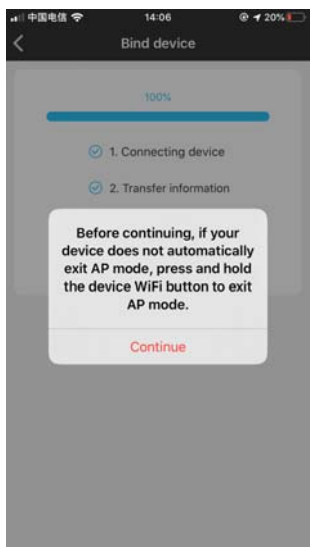
Select the device name “Weathertype”



Input correct Wi-Fi password



Bind the device



Make sure the device exit AP mode

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

Outdoor sensor transmission:

- When the weather Station successfully receives signals from the remote sensor, the temperature and humidity of the OUTDOOR are displayed on the OUTDOOR column of the Base Station.
- The base station can connect up to 3 channel wireless sensor registration, the use of multiple wireless sensor, the wireless sensor channel can not choose the same channel at the same time (a total of 1, 2, 3 channel can choose)
- Press the "CH" button can switch the display of different channels of outdoor temperature and humidity, when

displaying the symbol "↻", will display a channel every 5 seconds automatically switch.

- If the Base Station failed to receive transmission from outdoor sensor ("**- -**"display on the LCD), press and hold "▲CH" button for 3 seconds to receive transmission manually. the outdoor temperature will show an animation of the RF antenna symbol , the Base Station will re receive the wireless signal of the outdoor sensor.

Note: when the wireless sensor set up different channels, the base station "OUTDOOR" also want to switch to the same channel. When there is no wireless sensor signal transmission on the channel, "--" will be displayed in the channel of the base station

Manual time setting:

- Press and hold down the "⚙" button for 2 seconds, the temperature is display either in °C to flash. Now use "▲CH" and "▼WIFI" buttons to set the temperature unit in °C or °F.
- Press "⚙" to confirm your setting, the barometric pressure is display either in hPa/mb to flash. Now use "▲CH" and "▼WIFI" buttons to set the pressure unit in hPa/mb or inHg or mmHg.
- Press "⚙" to confirm your setting, the wind speed is display either in km/h to flash. Now use "▲CH" and "▼WIFI" buttons to set the pressure unit in km/h or Mph.
- Press "⚙" to confirm your setting, the 12/24 hour mode display starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct 12/24 hour mode.
- Press "⚙" to confirm your setting, the Time zones start to flash, Now use "▲CH" and "▼WIFI" buttons set a correct time zone (-12 to +12).
- Press "⚙" to confirm your setting, the Hour display starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct hour.
- Press "⚙" to confirm your setting, the Minute displays starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct minute.
- Press "⚙" button to confirm your setting, the Month and Date icon display starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the date display on Month/Date or Date/Month.
- Press "⚙" button to confirm your setting, the Year display 2017 starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct year.
- Press "⚙" button to confirm your setting, the Month display starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct month.
- Press "⚙" button to confirm your setting, the Date display starts to flash. Now use "▲CH" and "▼WIFI" buttons to set the correct date.
- Press "⚙" button to confirm your setting, the language selection for the Weekday displays starts to flash. Now use "▲CH" and "▼WIFI" buttons to select a language.

Language	**Sunday**	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
English, EN	SU	MO	TU	WE	TH	FR	SA
German, GE	SO	MO	DI	MI	DO	FR	SA
French, FR	DI	LU	MA	ME	JE	VEN	SA
Italian, IT	DO	LU	MA	ME	GI	VEN	SA
Spanish, SP	DO	LU	MA	MI	JU	VIE	SA
Dutch, DU	ZO	MA	DI	WO	DO	VRI	ZA

Danish, DA	SO	MA	TI	ON	TO	FRE	LO
Russian, RU	ВС	ПН	ВТ	СР	ЧТ	ПТ	СБ

- Press “⚙” to confirm your setting and to end the setting procedures, enter the clock mode.

F.Y.I.:

- After 20 seconds without pressing any button, the clock switches automatically from Set Mode to Normal Time Mode.
- There are 8 languages of Weekday: English, German, Italian, French, Spanish, Dutch, Danish and Russian
- When the WIFI connection is successful, the time will be automatically updated to the network time, the symbol “” will display, at the time of setting, time and time zones are not to change.

Setting the daily alarms:

- Press once “⏰” button, the display conversion to alarm activation mode. I
- Press and hold down “⏰” button for 2 seconds until Alarm Time hour display starts to flash. Use the“▲CH” and “▼WIFI”buttons to set the required hour.
- Press “⏰” button to confirm your setting, the Minute display starts to flash. Use the “▲CH” and “▼WIFI” buttons to set the required minute.
- Press “⏰” button to confirm your setting, the snooze time of the Alarm starts to flash. Use the “▲CH” and “▼WIFI” buttons to set the minute of snooze you need.
- Press “⏰” button to confirm your setting and to end the setting procedure

F.Y.I.:

- After 20 seconds without pressing any button the clock switches automatically from setting mode to Normal clock mode.

Alarm ON/OFF

- The alarm shift switch is pushed in the “🔔” position, LCD display the “🔔” icon, the alarm function is open, at the same time, the sound of "BI" sounded.
- Product back of the alarm shift switch is pushed in the “🔕” position, the “🔔” icon disappears, the alarm function is close

F.Y.I.:

- The alarm will sound for 2 minutes if you do not deactivate it by pressing any button. In this case the alarm will be repeated automatically after 24 hours.
- Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.
- The snooze time setting range: 5 ~ 60MIN, OFF, when set to OFF, means no snooze function. Snooze time unit is minutes.

- While the alarm is sounding, press any button except the “☼ / zZ” button or touch the "☼ / zZ" field for more than 3 seconds to stop the alarm signal.

Snooze Function:

- While the alarm is sounding, Touch the "☼ / zZ" field once to activate the snooze function. The alarm signal sounds again after already been set.

▸ In snooze mode, press any button except the "☼ / zZ" button or touch the "☼ / zZ" field for more than 3 seconds to exit the snooze mode.

F.Y.I.:

When the snooze function is set to OFF, while the alarm is sounding, press "**SNZ**" does not have this snooze function.

Maximum/Minimum Temperature/Relative Humidity

▸ To toggle indoor/outdoor maximum, minimum temperature and humidity data, press the "**MEM**" button:

Once to show the maximum temperature and humidity values.

Twice to sow the minimum temperature and humidity values.

Three times to return to the current temperature and humidity levels.

▸ To reset the maximum and minimum temperature and humidity, press and hold down the "**MEM**" button about 2 seconds. This will reset all minimum and maximum data recorded to the current displayed values.

F.Y.I.:

▸ *If the temperature reading is below* ranges*, the **LL.L** will be displayed. If the temperature reading is above* ranges*, the **HH.H** will be displayed.*

LOW BATTERY:

▸ If the battery icon "🔋" appears in the "IN" column, please change the battery of the base station in time.

▸ If the battery icon "🔋" appears in the "OUT" column, please confirm the channel of the battery prompt and change the remote sensor battery of the channel timely

Background lighting

▸ If the product is powered by batteries, touch the "☼ / zZ" field. 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. Users can choose according to the personal preferences of different brightness backlight or turn off the backlight. When the backlight is in the dark brightness or closed state, you can touch the "☼ / zZ" field to lighten the maximum brightness of backlight for 15 seconds.

Explanation of network weather forecast

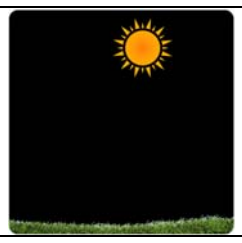
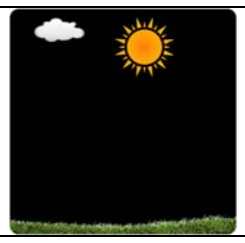
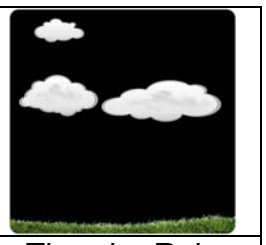
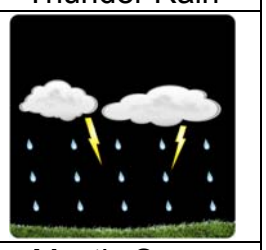
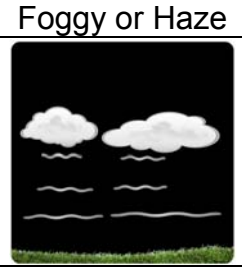
▸ After the base station is connected with the WIFI hotspot, the weather information of the base station will be updated automatically every hour after the weather forecast information obtained from the network.

▸ The base station automatically downloads real-time air pressure from the network, today's weather forecasts, the next three days of weather forecasts and forecasts of the highest and lowest temperatures

▸ The base station automatically uploads the data of indoor and outdoor temperature and humidity from the base station to the server, and the APP can download the data automatically from the server through the network

▸ Weather forecast icon that can be displayed on the base 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
				

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator&your body.