5065-3S Weather Station with Rain Gauge

User Manual

Please read this Manual thoroughly before using and save it for future reference.

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1. Weather Station Features

1.1 Main Unit and Sensors Function

- Weather forecast.(Sunny, sunny to cloudy, cloudy, light rain, heavy rain)
- Display of rainfall, mode view: 1Hour→24Hour→Today→Yesterday→ 7Days→Month→Year→Total.
- Rainfall alert and past 6 hours ranifall curve BAR.
- Automatic time calibration.(WWVB)
- 12/24 hour time/month/day/week display.
- Alarm clock and snooze function.
- Indoor&outdoor temperature and humidity, °C to °F switchable. (Weather station can be matched with 3 thermometer&hygrometer sensors at the same time.)
- Temperature and humidity max/min record.
- Indoor outdoor the highest minimum temperature alert.
- Indoor&outdoor temperature and humidity change trend display.
- 3-Level brightness backlight function.(DC power supply is valid)
- Air pressure display
- Moon phase and comfort indicator.

- **Wireless Outdoor Remote Sensors:**
  — 433.92MHz RF transmitting frequency
  — Connection Distance in open area(not including walls):
  Weather station and thermometer&hygrometer sensor: 100M
  Weather station and rain sensor: 80M
  (No Distractions/No Obstructions)
- **Power Supply:**
  — Weather Station:
  Battery: 3 × AAA 1.5V
  Dedicated power adapter: DC 5V 1.0A

Note: When only using Battery power, the backlight will not be constantly on and will automatically turn off after 8 seconds to save power.

Note: Suggest using the DC adapter for power supply; If it is necessary to ensure that the data of the weather station is not lost during DC adapter outage, it is recommended to install batteries as a backup power.

— Thermometer&Hygrometer Sensor:
Battery:2 x AAA 1.5V

— Rain Sensor:
Battery:2 x AAA 1.5V

▶ F.Y.I.:

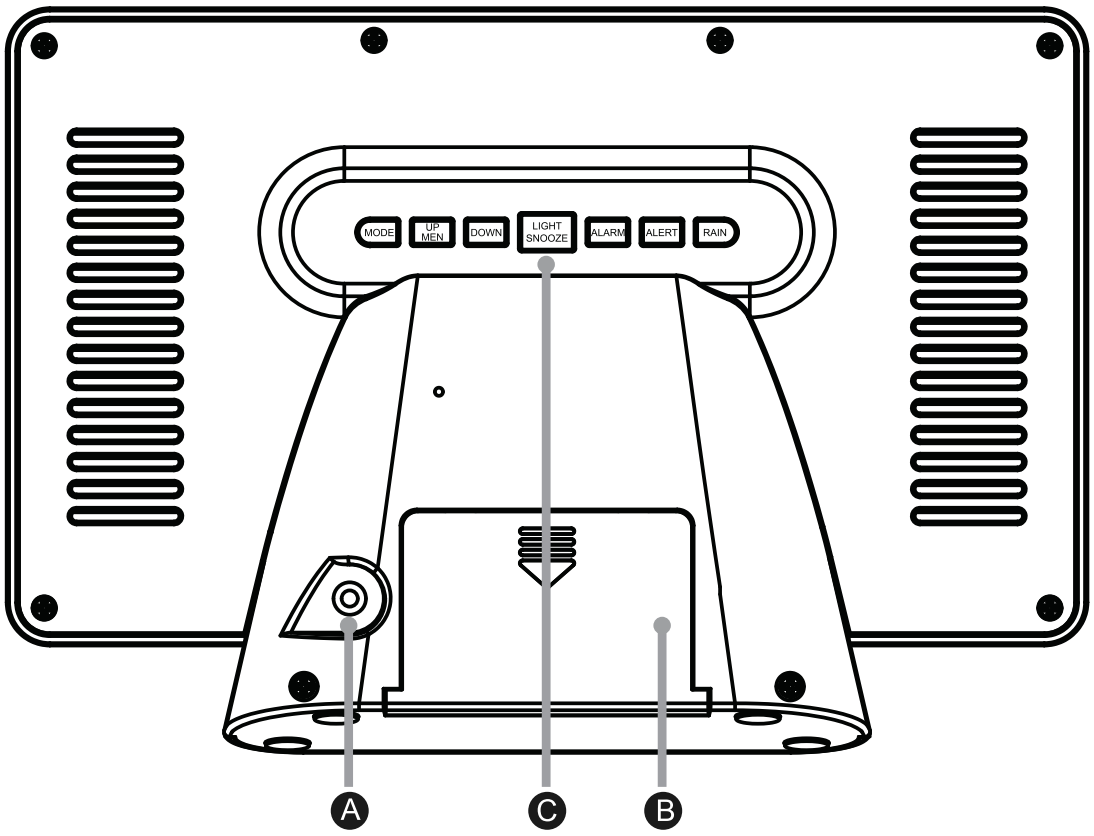
The wireless remote sensors can work at -30°C to +70°C.
Please choose the right battery according to the limit temperature of the wireless remote sensors:
Alkaline zinc manganese battery can work at -20°C to +60°C
Polymer lithium ion rechargeable battery can work at -40°C to +70°C

1.2 Main Unit Appearance

FRONT

1.Alarm Indicator
2.WWVB Radio Signal
3.Time Display
4.Month / Day
5.Week Display
6.Outdoor Sensor Channel
7.Outdoor Temperature
8.Outdoor Humidity
9.Moon Phase
10.Indoor Temperature
11.Indoor Humidity
12.Low-electricity Reminder
13.Ranifall Curve BAR
14.Atmospheric Pressure
15.Weather Forecast
16.Rain Data

BACK



A: Power Supply Socket

B: Battery Compartment

C: Weather Station Operation Buttons:

MODE: Single press, switch time/alarm clock display mode;
Long press to enter setting mode, the setting sequence:
Time Zone → DST ON/OFF → 12/24 Hour → Hour → Minute → Date Format → Year → Month → Date → Temperature Unit → Rainfall Unit → Air Pressure Unit→ Exit.

UP/MEM: Single press to check indoor&outdoor MAX temperature and humidity record; Long press to enter the radio RCC receiving mode.(Time will be automatically calibrated after receiving the signal.)

DOWN: Single press to switch the weather station sensor reception channel; Long press to clear the weather station transmitter receive channel and re-enter RF receive mode.

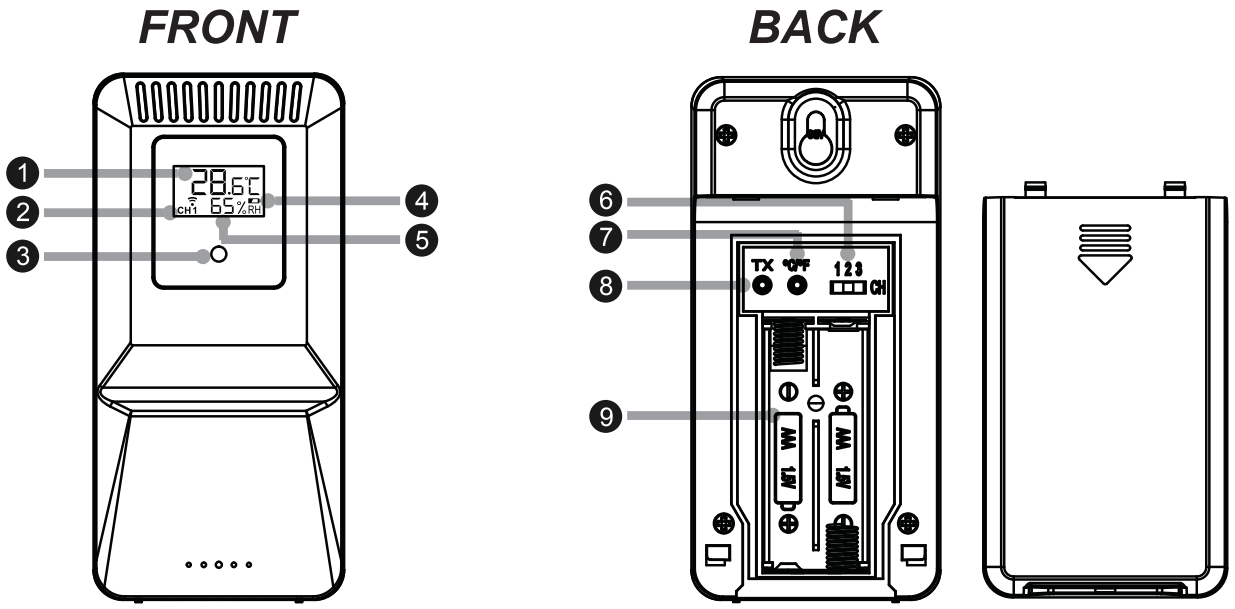
LIGHT/SNOOZE: Powered by battery, single press to turn on the backlight for 8 seconds; Powered by adapter, single press to adjust brightness of the backlight, the sequence is L2→L1→OFF.When the alarm goes off, single press to enter snooze mode; Long press to enter calibration settings.

ALARM: Single press to ON/OFF alarm; Long press to enter the alarm setting.

ALERT: Single press to ON/OFF temperature alert; Long press to enter the temperature alert setting.

RAIN: Single press to switch rainfall display mode; Long press to clear the current rainfall data.

1.3 Thermometer&Hygrometer Sensor Appearance



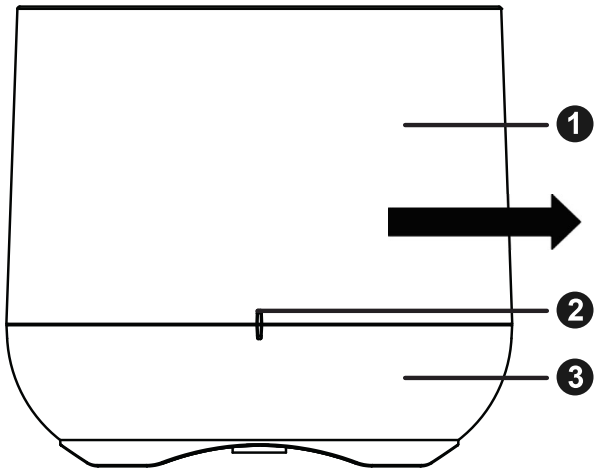
1.Outdoor Temperature
2.Sensor Channel
3.Sensor Wireless Signal
4.Low-electricity Reminder
5.Outdoor Humidity
6.Sensor Channel Button
7.Sensor Temperature Unit Button
8.Sensor Signal Manual Transmission Button
9.Battery Compartment

NOTE: Sensor is indoor and outdoor use. However need to be protected against wet, water, rain, etc.

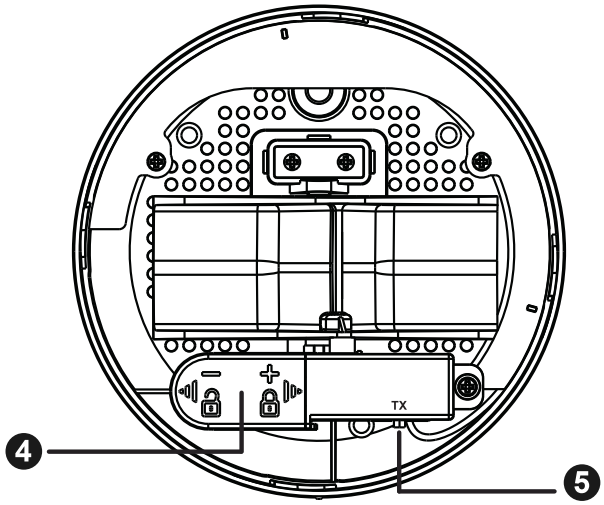
NOTE: The channel of the weather station requires consistent with the sensor channel, and then temperature and humidity data on the sensor can display on the weather station.

1.4 Rain Sensor Appearance

Before Dismantling (FRONT)



After Dismantling (INSIDE)



1. The eyes are facing the ❷ position, holding the ❸ position in one hand, and holding the ❶ position in the other hand, and the ❶ position rotates to the right (as shown in the direction of the arrow,rotate about 0.5cm). At this moment, the rain sensor was opened.
2. After turning on the rain sensor, push the ❹ position left or right to open or close the battery cover, and put it into the battery according to the positive and negative pole as shown in the icon.After installing the battery, screw the screws back.
3. After the screw is installed, the ❶ and ❸ parts will be installed back according to the ❷ alignment line.
4. There are 3 holes at the bottom of the rain sensor. If you need to be fixed on the outdoor land, You can use the included screws to secure the rain gauge through the holes.
5. After installing the battery for 85 seconds, the rainfall data of the main unit screen showed 0.0, indicating that the rain sensor was successfully connected to the main unit.
6. When the rainfall datas is not received, the rainfall signal •)) icon flash; the rainfall signal •)) does not flash after receiving the rainfall datas.
7. Position ❺ is the manual button for the rain sensor to transmit the signal; Please try pressing this button if you cannot connect to main unit.

2. Initial Operation and Sensors Mounting

2.1 Initial Operation

- Insert 2*AAA batteries into the outdoor thermometer&hygrometer sensor and 2*AAA batteries into the rain sensor , pay attention to the polarity ["+" and "-" marks]
- Plug one end of the power adapter into a power outlet, and then plug the other end into your weather station. (Optional: Insert 3*AAA batteries as a backup.).
- The LCD displays all items for 3s, and then switches to the standard display mode after a "beep" sound to display the indoor temperature, humidity, and atmospheric pressure values.
- Then weather station automatically enters 3 minutes wireless sensors receiving mode and automatically displays the outdoor temperature & humidity and rainfall datas (if there is no record, the initial value is 0).
- After 3 minutes, the weather station will exit the wireless sensors signal receiving mode, and automatically enter the WWVB radio control clock (RCC) receiving mode to set the time and date automatically. This process may take up to 7 minutes.
- After Initial operation, the weather station will automatically work. You just need to place the wireless remote sensors in a proper location and wait for the rain.

2.2 Notes for Customer Before Use

- During the WWVB radio control clock(RCC) receiving mode only the **“UP/MEM”** button will function, all other buttons have no function and the backlight will automatically turn off. Press and hold down the **“UP/MEM”** button for two seconds can cancel the WWVB signal search then all buttons will function and the backlight will remain constantly on.
- The user needs to set the correct time zone according to the location, otherwise the time received by the WWVB signal will be incorrect.

（When RCC function is turned on, weather station will automatically receive WWVB signal and calibrate the time every morning. Please refer to Chapters 3 and 4 for details.）

▶ How to determine if the main unit and remote sensors are connected? Please refer to the **“Troubleshooting&Frequently Asked Questions”** paper in the product packaging.

2.3 Wireless Remote Sensors Mounting Position

▶ **Remote thermometer and hygrometer sensor mounting position:**

1. The thermometer and hygrometer sensor should be installed in a place where there is no sunlight, otherwise the temperature will be much higher due to sunlight.
2. The sensor cannot be placed in a place with accumulated water to prevent the air vents below the sensor from being submerged and causing humidity damage to the sensor.

▶ **Remote rain sensor mounting position:**

1. Mount your remote rain sensor in an open area for a more accurate rain count.
2. Placing the remote rain sensor 1-2 meters (3-6 feet) above ground can obtain better signal connections and can better prevent insects from entering.
4. This is a self-emptying sensor, but be sure your unit is not sitting in a depression that would prevent rain from draining out of the bottom.
5. Your remote rain sensor should be accessible to allow for periodic cleaning of leaves or other debris that may clog the funnel.
6. Install the remote rain sensor on a level platform that is stationary and has a direct line of sight to your station.
7. Insert mounting screws through the holes in the base of the rain sensor. Do not over tighten.
8. Use the bubble level inside your sensor to be sure it is level.
9. After securing the base of the rain sensor, place the funnel section over

the sensor and make sure the buckle is locked to the base.

10. Avoid other wireless remote rain sensor as this can cause inaccuracy due to signal interference.

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

1. Rotate the funnel and pick up the funnel.
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.

3. Reception of Radio Control Clock (RCC)

- When weather station is turned on for 3 minutes, it will automatically enter the WWVB radio control clock (the following description is referred to as “RCC”) receiving mode to automatic calibration time and the RCC triangular tower symbol "  " will display and flash; if radio signal is received, the RCC triangular tower symbol "  " does not flash, and the RCC signal wave symbol "  " display and flash; if the radio signal is interrupted during receiving process, signal wave symbol "  " of RCC is not displayed, and triangular tower symbol "  " of RCC is converted to display and flashes.
- The RCC long reception time is 7 minutes. If the RCC reception is successful within 7 minutes, the time displayed by the weather station will be converted into the received time, and the RCC symbol "  " will be displayed on the screen; If no signal is received within 7 minutes, it will automatically quit RCC reception and continue to travel at the original time.
- In the standard mode, long press the **"UP"** button to forcibly enter RCC reception mode, and perform RCC reception in the above-mentioned manner.

- Automatically receive RCC: Regardless of whether the RCC signal is received or not, it will automatically enter the RCC reception at 2:00 every morning.
- In the process of RCC receiving the signal, the backlight will automatically turn off and other functions cannot be operated. If you need to operate the weather station, long press the **“UP"** button to exit the RCC receiving mode temporarily (Just exit the current RCC reception).

NOTE: Pressing the button **“UP"** and **“DOWN"** for more than 2 seconds at the same time will permanently exit the RCC automatic receiving mode. After turning off this function, the radio control symbol on the weather station screen will be “  ”, and the time will not be automatically received and synchronized, you will need to manually set the time.

NOTE: In areas where the RCC signal is unstable or the RCC automatic reception time is incorrect, you can exit the RCC function permanently. Alternatively, if you do not want the screen to be briefly turned off during RCC reception, you can also choose to permanently exit the RCC function.

4. Unit Settings (Time Zone, DST, Time setting etc)

- Press and hold the **"MODE"** button for 3 seconds to enter the unit setting mode(including Time Zone, DST, Time setting etc).
- After entering unit setting mode, Press the **"UP"** and **"DOWN"** button to adjust the value or option. Hold the **"UP"** and **"DOWN"** button to adjust quickly.
- Press the **"MODE"** button to confirm and move to the next item.

Settings Order:

1. Time Zone: PST, MST, CST, EST, AKT, HAT AST, NST
2. Daylight Saving Time(DST): ON |OFF
3. Hour format: 24Hr | 12Hr

4. Hour
5. Minute
6. Date Format: Month/Date | Date/Month
7. Year
8. Month
9. Date
10. Temperature Unit
11. Rainfall Unit
12. Air Pressure Unit

Exit

NOTE: The user needs to set the **correct time zone** according to the location, otherwise the standard time received by the RCC signal will display the wrong time. the specific time zones are as follows:

AST: Atlantic Standard Time	- 4
EST: Eastern Standard Time	- 5
CST: Central Standard Time	- 6
MST: Mountain Standard Time	- 7
PST: Pacific Standard Time	- 8
AKT: Alaska Standard Time	- 9
HAT: Hawaii-Aleutian Standard Time	- 10

NOTE: If the user's area does not implement the **daylight saving time** system, please set **DST** to OFF.

NOTE: 20 seconds without any buttons operation, it will save the setting data and exit setting mode.

5. Daily Alarm and Snooze Function Setting

5.1 Setting the Daily Alarms

- Press and hold the **"ALARM"** button to enter the alarm setting mode.
- After entering alarm setting mode,each time you press the **“ALARM"** button to confirm and enter the next setting item.
- Setting sequence: AL1 Hour → AL1 Minute → AL2 Hour → AL2 Minute → Exit.
- During the setting process, single press the **"UP"** or **"DOWN"** button to increase and decrease the time. Press and hold for 3 seconds to quickly set the time.
- 20 seconds of no action will save the existing settings and return to the time display.
- If you need to turn on/turn off the alarm, press the **“ALARM"** button to ON / OFF the alarm, the setting sequence: AL1 ON → AL2 ON → AL1 /AL2 ON → AL1 / AL2 OFF. After turning on the alarm, alarm symbol "  " will appear on the screen.
- After setting alarm time, press **“MODE"** button to check the alarm time. If there is a display time, it means that the alarm clock has been opened; if the OFF is displayed, the alarm clock has not yet opened.

Note: When an alarm is being alert or snooze,another alarm alert time arrives at the same time; Weather station stop the previous alarm or snooze, execute the next alarm alert or snooze.

Note: Alarm sound is divided into 4 segments, 1~10 seconds "Bi" once; 10~20 seconds "Bi Bi" two beeps; 20~30 seconds "Bi Bi Bi Bi" four beeps; Long beep after 30 seconds.

Note: When the alarm rings, the alarm signal flashes; Alarm time is 2 minutes.

Note: When the alarm clock rings,press any buttons to cancel the alarm.

5.2 Snooze Function

- When the alarm clock rings, press the **"LIGHT/SNOOZE"** button, alarm will be delayed for 5 minutes,and snooze&alarm symbols " Z^z " and "  " flash on the screen.
- In "Snooze" state, press any buttons to cancel "Snooze".

6. Temperature and Humidity Detection | Alert

Temperature Description

- Indoor temperature detection range: 32.0°F～122°F (0°C～50°C)
- Outdoor temperature detection range: -40°F～140°F (-40°C～60°C)
- Temperature display resolution: 0.1°F(°C)
- Default unit of temperature: °F. (If need to change unit, please refer to the **"MODE"** button operation of weather station).
- When the indoor detection temperature is lower than 32.0°F (0°C), the value displayed in the INDOOR TEMPERATURE column will be displayed as "LL.L°F (°C)", and when the temperature is higher than 122°F(50°C), it will be displayed as "HH.H°F (°C)".
- When the outdoor detection temperature is lower than -40°F (-40°C), the value displayed in the OUTDOOR TEMPERATURE column will be displayed as "LL.L°F (°C)", and when the temperature is higher than 140°F(60°C), it will be displayed as "HH.H°F (°C)".

Temperature Alert

- Single press **ALERT** button to ON/OFF temperature and rainfall alert, the ON/OFF setting sequence:
  Outdoor Hi/Min Temperature Alert ON →
  Indoor Hi/Min Temperature Alert ON →
  Outdoor&Indoor Hi/Min Temperature Alert ON →
  Outdoor& Indoor Hi/Min Temperature Alert OFF and Rainfall Alert ON →
  Outdoor Hi/Min Temperature Alert ON and Rainfall Alert ON →

Indoor Hi/Min Temperature Alert ON and Rainfall Alert ON →
Outdoor& Indoor Hi/Min Temperature Alert ON and Rainfall Alert ON →
Outdoor& Indoor Hi/Min Temperature Alert and Rainfall Alert OFF.

- When the temperature alert ON,the alert icon " " will be displayed on the weather station; when the temperature value reached the value of setting, the alert icon " " and temperature value display will be flashed on the weather station.
- Long press **ALERT** button to enter temperature and rainfall alert value setting,the setting sequence:
  Outdoor Highest Temperature → Outdoor Minimun Temperature →
  Indoor Highest Temperature → Indoor Minimun Temperature →
  Rainfall Alert Setting→ Exit.
- After enter the alert setting,each time you press the **"UP"** or **"DOWN"** buttons, the set item will be added or subtracted by one step.
- After enter the alert setting, long press the **"UP"** or **"DOWN"** buttons for more than 3 seconds to quickly increase or decrease, 8 steps per second.
- 20 seconds without any buttons operation, it will save the setting data and exit setting mode.
- The sound of temperature alert: Bi, Bi, Bi, 3 times per second; 5 seconds alert per minute; after 5 seconds of alert, the alert sound will stop for 55 seconds; and then start a new round of alert.
- Press any buttons to stop temperature alert when the alarm sounds, but the corresponding temperature value and alert icon " " will still flash; temperature alert will stop when the temperature value lower or higher than the setting.
- The highest and minimum value of the temperature alert can be set up and default value of temperature alert:
  Outdoor highest temperature: 140°F(60°C), minimun to -40°F(-40°C).
  Indoor highest temperature: 122°F (50°C), minimun to 32°F(0°C).
- If it is not the current display of the outdoor sensor alert, only the alert icon flash, the temperature value display does not flash.

Humidity Description

- Indoor humidity detection range: 20%RH～95%RH
- Outdoor humidity detection range: 20%RH～95%RH
- Humidity display resolution: 1%RH

NOTE: If the detected indoor or outdoor humidity is lower than 20%RH, it will still be displayed as "20%RH", and if it is higher than 95%RH, it will still be displayed as "95%RH".

MAX/MIN Temperature&Humidity

- Press once **UP/MEM** button to display the MAX temperature and humidity record, press again to display the MIN temperature&humidity record, press again to exit.
- When checking the MAX/MIN temperature&humidity, long press the button **UP/MEM** button to clear the record of MAX/MIN temperature and humidity; temperature displays "--.-" for 3 seconds, and then return to the current temperature display.
- After clearing the record, start to record the new MAX/MIN temperature and humidity.
- MAX/MIN records the highest and lowest temperature&humidity of the day, which is automatically cleared and re-recorded at 0:00 every day.
- When MAX or MIN is displayed, if there is no operation for 5 seconds, it will return to the current temperature display.

Temperature&Humidity Trend

- When the temperature continues to increase by 1°C (1.8°F) or more, the temperature trend symbol "↑" will be displayed.
- When the temperature does not change more than 1°C (1.8°F) within 1 hour, the degree trend symbol "→" will be displayed.
- When the temperature continues to drop by 1°C (1.8°F) or more, the temperature trend symbol "↓" will be displayed.

- When the humidity continues to rise by 5%RH and above, temperature trend symbol " ↑ " will be displayed.
- When the humidity does not change more than 5%RH within 1 hour, the degree trend symbol " → " will be displayed.
- When the humidity continues to drop by 5%RH or more, temperature trend symbol " ↓ " will be displayed.

7. Moon Phase and Air Presssure

7.1 Moon Phases

- The moon phase level is displayed in the MOON PHASE column. The moon phase level is divided into 12 levels, as shown in the figure below:

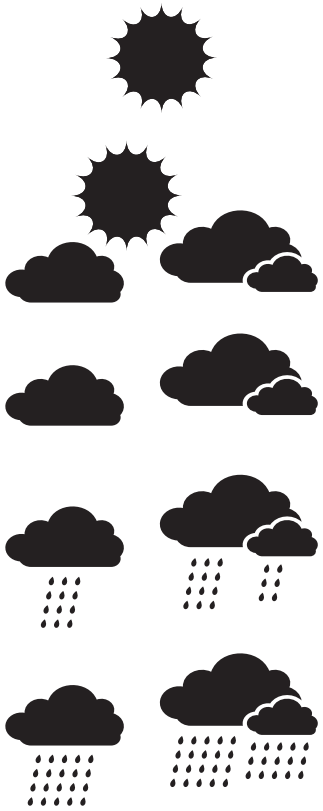
- New Moon → Crescent Moon → First Quarter Moon → Waning Gibbous Moon → Full Moon → Waning Gibbous Moon → Last Quarter Moon → Waning Moon

7.2 Atmospheric Pressure Instruction

- Switch the air pressure unit in the setting mode.The atmospheric pressure is updated and tested every 1 hour, and the air pressure value is recorded at the same time.(Air pressure default unit: inHg; if need to change unit, please refer to the "**MODE**" button operation of weather station)
- Atmospheric pressure detection range:
  17.72 inHg～32.50 inHg (600 hPa/mb～1100 hPa/mb)
- Atmospheric pressure display resolution: 1 hPa/mb & 0.01 inHg

8. Rainfall and Weather Forecast

8.1 Types of Weather Displayed



Sunny

Sunny to Cloudy

Cloudy

Light Rain

Heavy Rain

8.2 Rainfall Display Mode&Datas Clearing

- Single press the button **RAIN** to switch rainfall display mode,setting sequence: Today→Yesterday→7Days→Month→Year→Total→1Hour→24Hours
- The default is Today display mode once powerd.
- Long press the **RAIN** button to clear the rainfall record to 0.
- The principle of clearing rainfall data is as follows:

1.When clearing one of the data of Today/Yesterday/24Hours, the rainfall data of the four time periods of 1Hour/Today/Yesterday/24Hours are cleared to zero

2.When clearing the data of 7Days, the rainfall data of the four time periods of 1Hour/Today/Yesterday/24Hours are cleared to zero.

3.When clearing the data of Month, the rainfall data of the five time periods of 1Hour/Today/Yesterday/24Hours/7Days are cleared to zero.

4.When clearing the data of Year, the rainfall data of the six time periods of 1Hour/Today/Yesterday/24Hours/7Days/Month are cleared to zero.

5.When clearing the data of Total, the rainfall data of the seven time periods of 1Hour/Today/Yesterday/24Hours/7Days/Month/Year are cleared to zero.

- The maximum record of rainfall is 393.6inch/9999mm; the rainfall display flashed after the record reaches the maximum value, it must be cleared manually to update the data again; The rainfall count is 0.014 inch/0.35mm each time.

8.3 Rainfall Alert Setting

- The rainfall alert is only for the rainfall of the past 24 hours. (The default value of alert in the past 24 hours: 2 inch)
- The rainfall alert default is OFF after powerd.
- Single press **ALERT** button to ON/OFF temperature&rainfall alert, the ON/OFF setting sequence please refer to Page 14.
- Long press **ALERT** button to enter the temperature&rainfall alert setting, the setting sequence please refer to Page 15.
- After enter the alert setting,each time you press the "**UP**" or "**DOWN**" buttons, the set item will be added or subtracted by one step.
- After enter the alert setting,long press the "**UP**" or "**DOWN**" buttons for more than 3 seconds to quickly increase or decrease, 8 steps per second.
- 20 seconds without any buttons operation, it will save the setting data and exit setting mode.
- The sound of rainfall alert: Bi, Bi, Bi, Bi 4 times per second; 5 seconds alert per minute; after 5 seconds of alert, the alert sound will stop for 55 seconds; and then start a new round of alert.
- Press any buttons to stop rainfall alert when the alarm sounds,but the corresponding rainfall value and alert icon  will still flash; rainfall alert will stop when the rainfall value lower than the setting.
- Rainfall Alert: When the rainfall alert ON,the alert icon  will be displayed on the weather station; the alert icon is not displayed if rainfall alert OFF; when the rainfall value reached the value of setting, the alert icon  flash.

8.4 Rainfall Curve Bar

1.The Ranifall Curve BAR is displayed in the past 1 hour/2 hours/3 hours/ 4 hours/5 hours/6 hours raining trend.

2.In the past 1 hour/2 hours/3 hours/4 hours/5 hours/6 hours, the Ranifall Curve BAR defaults to 1 piece.

3.How to explain the changes in the Ranifall Curve BAR:

For example: after 1 hour of powered, the rainfall value changes to 0.08 inch,the Ranifall Curve BAR -1h position will be added one piece, there will be 2 pieces in the Ranifall Curve BAR -1h position.

9. Weather Station and Sensor Channel

- The weather station can connect up to 3 different channel wireless remote thermometer&hygrometer sensors and 1 wireless remote rain sensor.
- The weather station automatically searches for all wireless remote 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.
- The thermometer&hygrometer sensor channel should be the same as the channel of the weather station;【For example, the weather station channel is 1, and the sensor channel needs to be 1】;
- When the weather station loses sensor signals or the sensor is not connected to the channel, the value of the channel is displayed as “--”.

9.1 Weather Station Channel

- If the weather station is receiving the outdoor sensor radio signal, it will automatically display the appropriate channel.However, you can also manually set the display of the various radio channels.
- Press button **DOWN** repeatedly to toggle between the displays **CH1** (show only channel 1), **CH2** (show only channel 2), **CH3** (show only channel 3) and (scroll through all channels in a loop).

9.2 Thermometer&Hygrometer Channel

- Open the battery compartment on the rear of the appliance by removing the battery compartment cover.
- Select a radio channel by pushing the channel selector switch **DOWN** to CH 1, CH 2 or CH 3.
- Press and hold the weather station button **DOWN** until the reception signal flashes on the outdoor display.
- Press the **TX** button to manually initiate the outdoor sensor radio signal. If reception is successful, the temperature and humidity will now be displayed on the outdoor display on the new radio channel.

10. Backlight Setting

- When weather station is powered by batteries, press **LIGHT/SNOOZE** button once in any mode to turn on the backlight for 8s, backlight will automatically go out if the **LIGHT/SNOOZE** button is not pressed during the lighting process.
- When the weather station is powered by DC-POWER (after it is powered by DC-POWER, the circuit will automatically disconnect if the product has a battery), the backlight will stay on, press the **LIGHT/SNOOZE** button to switch the brightness of the backlight. And the brightness is divided into degrees: L2→L1→Off.

NOTE: When the weather station is powered by DC-POWER, if it enters RCC reception automatically or manually, the backlight will be automatically turned off. You can press the **LIGHT/SNOOZE** button to turn on the backlight for 8 seconds (the brightest mode), and it will automatically turn off after 8 seconds.

11. Low Battery Indication

- When the operating voltage of the weather station is lower than 3.6V, the battery low pressure symbol " " will be flashed, indicating that the battery needs to be replaced.
- When the working voltage of the thermometer&hygrometer and rain sensor is lower than 2.5V, the low-battery warning signal will be issued,

and the battery low pressure symbol "  " will be flashed in the weather station.

12. Product Specification

- Temperature accuracy: 32-104°F: ±1.8°F(±1°C), Other: ±3.6°F(±2°C)
- Humidity accuracy: 40-80%RH: ±5%RH, Other: ±8%RH
- Air pressure accuracy: ±5hPa
- Alarm decibel: 70dB(10CM is facing the weather station)
- Power of weather station: 0.75W MAX; Sensor: 0.075W MAX
- Voltage of weather station: DC 5V or 3×AAA Batteries 4.5V
  Sensor: 2×AAA Batteries 3V
- Current of weather station: 150mA MAX; Sensor: 25mA MAX
- Low battery reminder of weather station: 3.6V; Sensor: 2.5V

13. How to manually calibrate datas?

Weather Station:

- Press the button **LIGHT/SNOOZE** for more than 2 seconds to enter calibration settings;
- After entering the calibration mode, the set data will flash; At this time, press the button **UP** or **DOWN** to adjust the data;
- Press the button **LIGHT/SNOOZE** to confirm and proceed to the next step;
- The setting order:
  Indoor Temperature → Indoor Humidity → Pressure → Forecast → Exit.

Thermometer&Hygrometer Sensor

- Open the battery compartment, press the button **TX** and **°C/°F** at the same time for more than 5 seconds to enter calibration settings;
- After entering the calibration mode, the set data will flash; At this time, press the button **TX** or **°C/°F** to adjust the data;
- Press the button **TX** or **°C/°F** for more than 2 seconds to confirm and proceed to the next step;
- The setting order: Outdoor Temperature → Outdoor Humidity → Exit.

- After setting, press button **TX** to immediately synchronize the calibrated data to weather station, Or wait for 2-3 minutes the calibration data will be automatically synchronized to the weahter station.

Note: After disconnecting the power and restarting, the weather station and sensors will be restored to their factory settings (calibrated data will not be saved).

Note: Install backup battery for your weather station can prevent data loss during DC adapter plugging and unplugging.

14. Frequently Asked Questions

Q1.Why is the backlight suddenly extinguished and the weather station cannot be operated ?

A1: The weather station will activate RCC reception when it is just powered on or at 2:00 am every day. During the RCC reception, receive symbol "" is flashing, no other operations can be performed. It takes about 4-8 minutes to complete the RCC reception. If need to operate, long press **UP/MEM** button to exit the signal reception, receive symbol not flashes, and you can operate the weather station now.

【About RCC (Radio Control Clock), please refer to manual Page 10】

Q2.How to determine if the rain sensor are connected with the weather station?

A2: When the weather station is successfully connected to the rain sensor, the value of rainfall is displayed on the weather station, and the rainfall signal icon in the rain area remains lit.

When the weather station is not successfully connected to the rain sensor, the value of rainfall will display "---", and the rainfall signal icon in the rain area disappears or flash.

Q3.What should be done if the rain sensor is not successfully connected to the weather station? (or there is rain but no rainfall readings?)

A3: Please follow the steps below to Troubleshooting:

1) Please Check if the rain sensor have correctly installed the batteries with sufficient power; Pay attention to the polarity ["+" and "-" marks].
2) Check if the distance between the weather station and the rain sensor is too far;
3) Press and hold the **"DOWN"** button for 3 seconds to reconnect the weather station to rain sensor. The rainfall signal icon in the rain area flashes, and the weather station will reconnect to the remote rain sensor, and press the **TX** button on the rain sensor to manually transmit the transmission signal.
4) If it still cannot be connected (rainfall readings always show "----"), please uninstall the batteries of rain sensor, unplug the power and battery of the weather station, and Restart the weather station and rain sensor.

Q4.How to determine if the thermometer&hygrometer sensor are connected with the weather station?

A4: When the weather station is successfully connected to the the thermometer &hygrometer sensor, the value of outdoor temperature and humidity is displayed on the weather station, and the signal icon in the temperature &humidity area remains lit.

When the weather station is not successfully connected to the thermometer and hygrometer sensor, the value of outdoor temperature&humidity will display "---", and the signal icon in the temperature&humidity area disappears or flash.

Q5.What should be done if the thermometer&hygrometer sensor are not connected with the weather station? (or there is no outdoor temperature and humidity readings?)

A5: Please follow the steps below to Troubleshooting:

1) Please check if the thermometer&hygrometer sensor have correctly installed the batteries with sufficient power;

2) Check if the distance between the weather station and the thermometer and hygrometer sensor is too far;
3) Check weather the thermometer&hygrometer sensor channel is the same as the channel of the weather station; For example, the weather station channel is 1, and the sensor channel needs to be 1;
4) Press and hold the **"DOWN"** button for 3 seconds to reconnect the weather station to thermometer&hygrometer sensor. The signal  icon flashes, and the weather station will reconnect to the remote thermometer and hygrometer sensor; (This process takes approximately 3-5 minutes).
5) If it still cannot be connected (temperature&humidity readings always show "----"), Please Restart the weather station and sensors.

Q6.Why is the time automatic calibration incorrect (time always deviate by a few hours) ?

A6: WWVB Atomic Clock (RCC) : There are 8 time zones in the United States: **PST/MST/CST/EST/AKT/HAT/AST/NST**. The clock is default is **PST** time, please set up according to your local time zone, otherwise there will be time errors. Please refer to the setting sequence in the time setting on Page 11 to select the time zone.

Q7.After slowly pouring water into the rain sensor cylinder (or manually flipping the bucket back and forth), why does the weather station not display a rainfall reading immediately?

A7: In order to save energy, the weather station only synchronizes data with the rain sensor every 2-3 minutes. Therefore, after manually pouring water into the rain sensor cylinder, it is necessary to wait for 3-4 minutes for the data to be synchronized to the weather station.

Q8.How to switch dfferent rain readings?

A8: By pressing the **“RAIN”** button, you can switch the different rain readings: 1Hour→24Hour→Today→Yesterday→7Days→Month→Year→Total.

15. After-sale service

We offer a 30-days no reason return&refund policy and 3-years of quality and after-sales guarantee.

If you have any questions, Please contact our after-sales email:
service_yzd@163.com

Or you can contact us through Amazon as follows:
1) Log in to your Amazon account and enter the "My Orders" page;
2) Find the order of this product and click "Contact Seller";
3) In the seller's contact page, you can describe your question and send it to us.

We will reply within 24 hours and provide you with a satisfactory after-sale service! Thank you!

FCC Warning:

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 to this device not explicitly approved by manufacturer could void your authority to operate this 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.