INSTRUCTION MANUAL

*** Note: Please make sure that both the Main Unit and the Outdoor Sensor are power on within 3 minutes. If the Main Unit is powered for over 3 minutes without the sensor on, it will not pair with the Outdoor Sensor or receive signal anymore.**

Instruction Manual

Seven Keys:
DOWN, MODE, SNOOZE/LIGHT, CHANNEL, UP, ALERTS, ALARM.

1. Display Unit
- 12/24 h Time and Date.(Press “DOWN” key to switch)
- Dual alarms.
- Snooze function (snooze interval optional from 3 minutes to 20 minutes,default: 5 minutes).
- RCC: WWVB(US) [One product only have one RCC channel].
- °C/°F switch over.(Press “UP” key to switch)
- Weather forecast.
- Indoor temperature range: 0°C-50°C (32°F-122°F), accurate range: ±1°C(±1.8°F), display scope: 0°C - 50°C (32°F-122°F).
- Indoor humidity range: 25%-95% accurate range: ± 5%, humidity display scope: 20%-99%.
- Outdoor temperature range: -35°C-60°C (-31°F-140°F), accurate range: ±1°C(±1.8°F), temperature display scope: -40°C-70°C(-40°F-158°F).
- Outdoor humidity range: 25%-95%, accurate range: ±5%, humidity display scope: 20%-99%.
- Temperature alert for both highest and lowest indoor and outdoor temperature.
- RF 433MHz outdoor Temperature/Humidity signal transmission, up to 3 outdoor transmitters receivable(Product only come with 1 outdoor transmitter, please contact the seller if you need more outdoor transmitters).
- Battery low-power indicator.
- Comfort level.
- Adjustable backlight (High light, mid-bright, turn off).
- Color backlight function (Light on for 8 seconds when powered by batteries).
- Color backlight (Sound control).

2. Operation Instruction
Insert battery (AAA) or connect adapter after a few seconds, LCD shows full segment, after sound beep, it will enter the common display mode.
- On Default:
WWVB: Default 12-hour system at 12:00, temperature unit default°F.

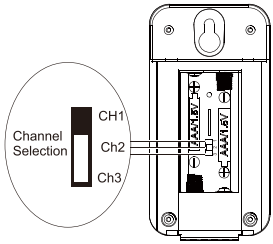
3. Key Function
3.1 Time Setting
- Under normal mode, press and hold “MODE” for a few seconds to set the time (Hold until the display flashes). And then press “MODE” key to choose the item for setting.The steps when in time setting mode:
Time zone→Hour→Minute→Year—Month—Day—Week—>Exit.

A. Press "UP" key, the number will go up; press and hold for 3 seconds, the number will continually going up.
B. Press "DOWN" key, the number will go down; press and hold for 3 seconds,the number will continually going down. Finish setting when no keys are pressed for 10 seconds, and set numbers will be saved.

3.2 Temperature and Humidity Function
- Under normal mode, press the “CHANNEL” key to switch the channel of the outdoor display, switch in sequence: CH1 temperature and humidity→CH2 temperature and humidity→CH3 temperature and humidity→cycle display,(symbol appears on the LCD display). Press and hold “CHANNEL" key for a few seconds to connect/reconnect the outdoor temperature sensor in 3 minutes.

Tips:

• The default channel of outdoor temperature sensor is "ChT'. Open the battery cover of sensor and remove the batteries can switch the channel.



(The Outdoor Temperature Sensor)

• Under cycle display mode, The display would show outdoor temperatures from connected channels cyclically.

• If the indoor or outdoor temperature is out of the normal range, the low end displays "LL", the high end displays

3.3 Alarm Setting

• Under normal mode, Press “MODE” key to switch the normal mode→AL1 mode→AL2 mode (cycle display). AL1 default time 6:00 am, AL2 default time 12:00 am.

• Under AL1 mode, press and hold “MODE” for a few seconds to enter AL1 alarm setting (Hold until button flashes).

Setting steps: AL1 Hour→AL1 Minute→Exit.

A. Press "UP" key, the number will go up; press and hold for 3 seconds, the number will continually going up.

B. Press “DOWN” key, the number will go down; press and hold for 3 seconds, the number will continually going down.

C. After setting, press “MODE” to confirm and exit.

If no key is pressed for 10 seconds to exit setting status, the setting saved. Setting steps of AL2 is the same as that of Ai1.

• Under normal mode, Press "ALARM" to turn on/off the alarm in sequence: AL1 ON→AL2ON→AL1 and AL2 On→ALI and AI2 Off.

3.4 SNOOZE/LIGHT KEY

• Under normal mode, press “SNOOZE/LIGHT” key to adjust brightness. Adjust in sequence when powered by adapter Bright-normal—turn off-*bright (loop). Adjust in sequence when powered by batteries: Bright→normal→bright(loop).

• Under alarm mode, press “SNOOZE/LIGHT” key for a few seconds to enter snooze interval setting. Default interval is 5 minutes, optional setting is ranged from 3 minutes to 20 minutes.

• When alarm is beeping, press “SNOOZE/LIGHT” key to turn on snooze.

3.5 Weather Forecast Function

• 6 levels of weather forecast can be displayed: sunny, sunny and cloudy, cloudy, rainy, heavy rain, snowy.

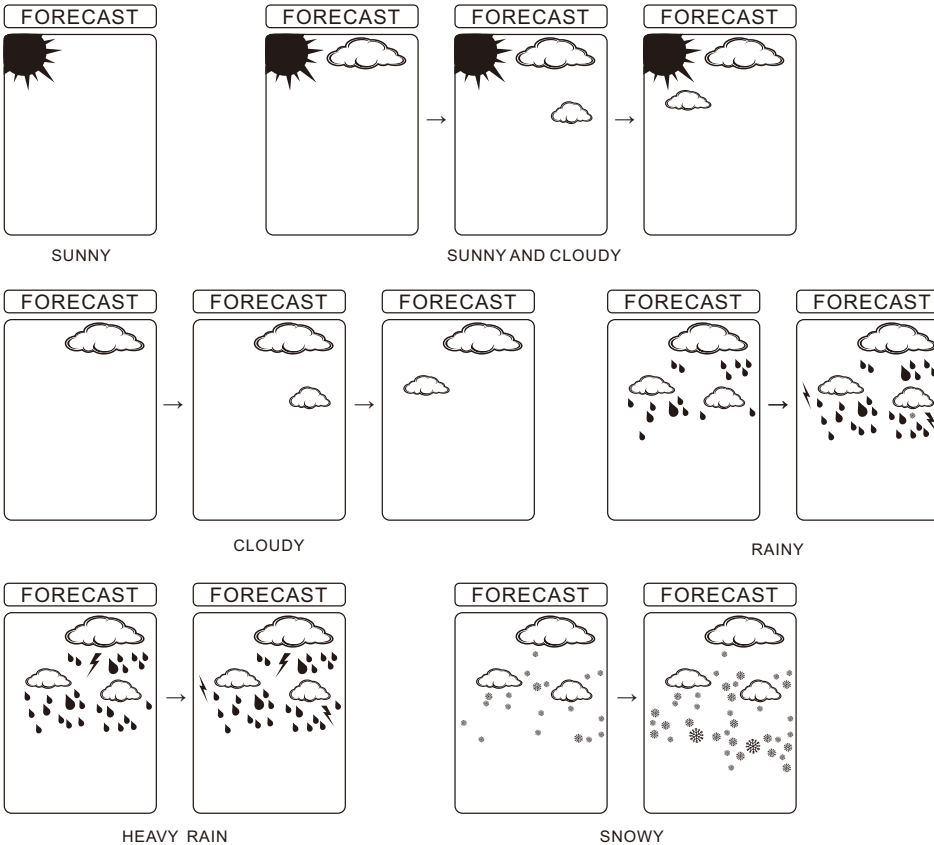
• Dynamic weather forecast display

Please take the weather forecast from your local weather forecasting service into account as well as the forecast from your weather station. If there are discrepancies between the information from your device and from the local weather forecasting service, please take the advice of the latter as authoritative.

The weather forecast is calculated from evaluation of fluctuations in the barometric pressure and may deviate from the actual weather conditions.

The weather symbols indicate the weather fluctuation over the next 24 hours and not the current weather.

The weather station displays the following weather symbols:



3.6 RCC(Radio-controlled clock) Receiving Function

Tips: To more accurately receive the WWVB radio, please place the station in a appropriate position.

- After power on or reset, after testing temperature and humidity will receive RF for 3 minutes automatically.
- Press and hold "DOWN" key for 3 seconds to enter into RCC receiving.
- Daily auto receiving: RCC receiving automatically at 1:00 am, 2:00 am, 3:00 am every day, if it fails to receive the RC by 3:00 am, then it will try again at 4:00 am or 5:00 am.
- Radio receiving signals:
  A. Under receiving mode, the RCC symbol ip will flash.
  B. When the signal is received, the RCC symbol and parabolic antenna will flash, when the signal received successfully, theRCC symbol will display on the LCD display without flashing.
  C. When the signal is weak and cannot be distinguished, RCC symbol will flash.
  D. When the signal is received, the signal will display and stop receiving.
- During signal receiving, press the “DOWN” key to exit radio signal receiving. Press the “SNOOZE/LIGHT” key to turn on the backlight. Other keys will notwork if pressed. Receiving time is 1:00 am of the next day in case the receiving failed.
- If alarm beeps while receiving, the system will switch to alarm mode.
- Vanish the "RCC" symbol by manually resetting time when it shows on the screen.

3.7 UP KEY

- Under time mode, press “UP” key to switch °C/°F display.
- Under time, date, temperature alert, snooze mode, press “UP” key to go forward one step, press and hold “UP” key a few seconds to go forward 8 steps per second.
- Under temperature alert mode, press “UP” key to turn alert on/off.

3.8 DOWN KEY

- Under time mode, press “DOWN” key to switch 12/24H display.
- Undertime, calendar, temperature alert, snooze mode, press “DOWN” key to go back one step, press and hold “DOWN” key for a few seconds to go back 8 steps per second.
- Under temperature alert mode, press “DOWN” Key to turn alert on/off.
- Under normal mode, press “DOWN” key for a few seconds to RCC Receiving. Under RCC receiving, press “DOWN” key to exit.

3.9 ALERTS KEY

- Under time mode, press “ALERTS” key to check temperature alert for both highest and lowest indoor and outdoor temperature. Checking in sequence: highest outdoor temperature→lowest outdoor temperature→highest indoor temperature→lowest indoor temperature(cycle display).
- Under time mode, press and hold “ALERTS” key for a few seconds to enter temperature alert setting for both highest and lowest indoor and outdoor temperature, setting sequence: outdoor highest temperature→outdoor lowest temperature→indoor highest temperature→indoor lowest temperature→Exit.

3.10 Comfort Level

- HUMID: When the humidity is more than 70%.
- GOOD: When the temperature is between(20°C - 28°C/68°F - 82.4°F) and the humidity is between 40 - 70%.
- DRY: When the humidity is less than 40%.
- No comfort level shown on the display when the temperature is out of the appropriate range(20°C - 28°C/68°F - 82.4°F) and the humidity is between 40% - 70%.

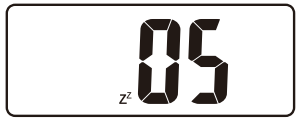
4. Other Functions

4.1 Alarm Function

- Under time mode, press “ALARM” to turn on/off the alarm in sequence: AL1 ON→AL2 ON→AL1 and AL2 ON→AL1 and AL2 OFF.
- When the alarm is turned on and the alarm reaches the set time, it rings. Press “SNOOZE/LIGHT” key to turn on snooze, the symbol and corresponding alarm will flash continuously; press any other key to stop the alarm.
- If no key is pressed, the alarm stops automatically after 2 minutes.
- While the alarm rings, the corresponding AL character will flash on the display.
- Under snooze mode, the corresponding AL character and Snooze symbol will flash on the display. Press “SNOOZE/LIGHT” to turn on the backlight, press any other key to stop and exit at the same time and alarm will turn off.
- When the alarm or snooze is active, and the RCC is waiting, the RCC will not operate until the alarm or snooze is finished
- If the alarm time is the same for both AL1 and AL2,only AL1 symbol will flash on the display when times up.
- When an alarm and snooze time are set at the same time,the later alarm will start beeping and stop the first one.
- Snooze can be repeated indefinitely.
- Alarm's rhythm, difference in 2 minutes:
  A. 0-10 second: Beep per second.
  B. 10-20 seconds: BIBI per second.
  C. Over 20 seconds: BIBIBIBI per second.

4.2 Snooze interval setting

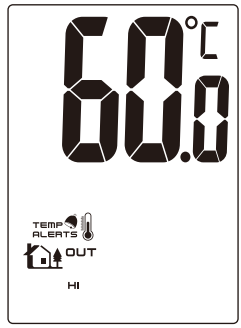
- Under normal mode.press the “SNOOZE/LIGHT” key for a few seconds to enter snooze interval setting (optional from3minutes to 20 minutes, default: 5 minutes)



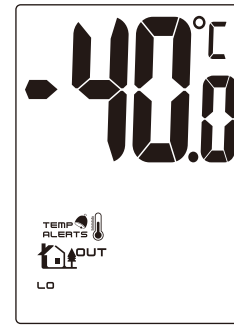
(Snooze Interval Time Setting Display)

- Press “Up” key, the value will go ahead 1 step, press and hold “UP” key for 2 seconds, the value will go ahead at an 8 step/second speed.
- Press “DOWN” key, the value will go back 1 step, press and hold "DOWN" key for 2 seconds, the value will go back at an 8 step/second speed.
- After setting, press “MODE” to exit.
- If no key is press for 10 seconds to exit setting status, the value will stay.

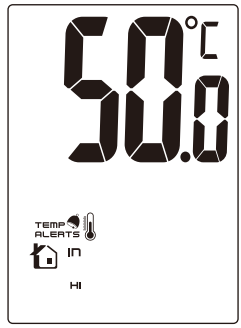
4.3 Temperature Alert Setting



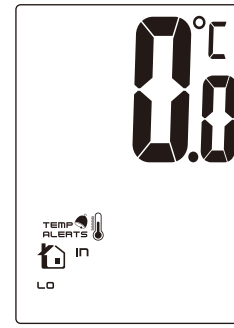
(The Highest Outdoor Temperature Display)



(The Lowest Outdoor Temperature Display)



(The Highest Indoor Temperature Display)



(The Lowest Indoor Temperature Display)

- Under time mode, press the “ALERTS” key to enter the temperature alert mode to check out alarms for highest and lowest temperatures indoor and outdoor.
- Under temperature alert mode, press the “UP” key or ,“DOWN” key to turn the alarm on/off. After Alarm is set On, the corresponding alarm symbol will display.
- Under time mode, press and hold “ALERTS” key for a few seconds until the display flashes, press the “ALERTS” key to set 4 temperature alerts. In order of highest temperature outdoor; lowest temperature outdoor.
  highest temperature indoor; lowest temperature indoor.
- Indoor temperature upper limit: 50°C (122°F), lower limit: 0°C (32°F).
- Outdoor temperature upper limit: 70°C (158°F), lower limit: -40°C (-40°F).
- Press “UP”, the value will go ahead one step; press and hold for 2 seconds, the value will go ahead at an 8 step/second speed.

- Press “DOWN” key, the value will go back one step; press and hold for 2 seconds, the value will go back at an 8 step/second speed.
  After setting, press “ALERTS” to confirm.
- If no key is pressed for 10 seconds, system will exit automatically to set status.

4.4 Tips

- If powered by batteries, press any key or make a sound (greater than 60 decibels) to wake up the backlight (within 20CM).
- If powered by the adapter, sound control will be shut down, press “SNOOZE/LIGHT”, adjust backlight: Bright→normal→Shutdown→normal→bight (loop in sequence).
- If powered by the adaptor, when the alarm is on and the backlight is on at the same time. The backlight turns off after alarm stopped.
- If powered by batteries, please change the batteries in case of dim display.
- Every time you turn on the weather station, the station needs a few days to learn the pattern of the local barometer for more accurate weather forecast.

Solutions to the common problems of products

- Why does the temperature and humidity of the product show deviations from the real temperature and humidity?
  The product is calibrated by precision reference when it is manufactured, but each product has a slight difference in their electronic material used to determine temperature and humidity. Even if the product is calibrated, the measured data can't be as accurate as standard references, this error is going to be less than 5%.

- Why does the product shows different outdoor indoor date when the transmitter and host are put together?
  Host and transmitter have a slight difference in their electronic material used to determine temperature and humidity, and they are individually calibrated by precision reference when they were manufactured, this error is also going to be less than 5%.

- Why does the Weather Station and outdoor sensor lose connection?

A. Radio signals Easily absorbed by metal objects and not easy to penetrate the wall, therefore, the distance in actual use will be much shorter than 80 meters (theoretical value).
B. Host's receiving channel doesn't corresponding with outdoor sensor's channel.
C. There's similar signal in the environment, this signal will be automatically received by host and occupy a channel.

Any 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.