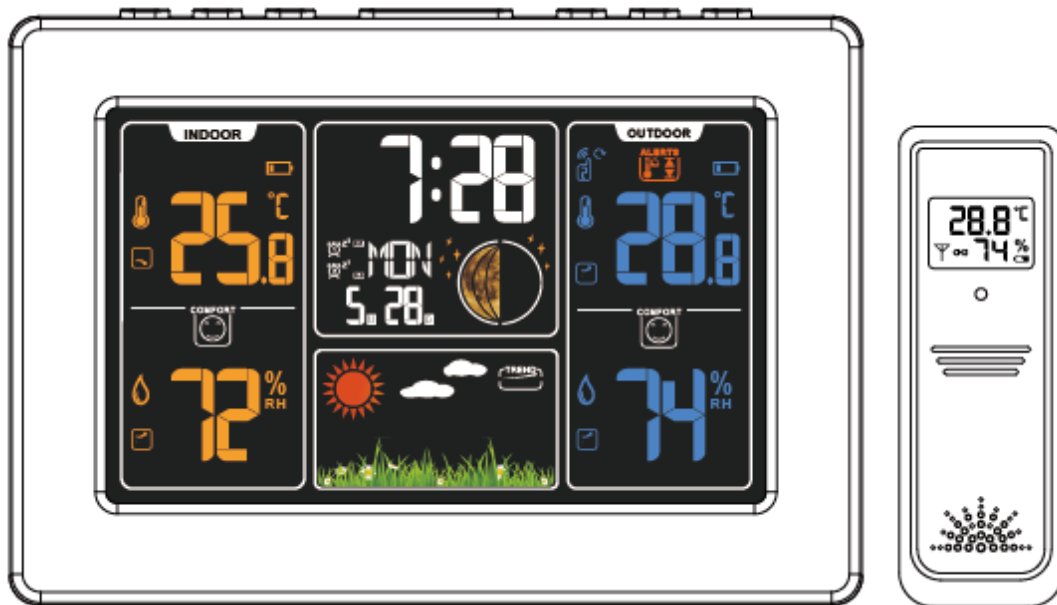# Weather Station
User Manual

Contents

Weather Station Introduction

1. Weather station low battery warning (displayed when powered by batteries)

2. Indoor temperature

3. Indoor temperature trends

4. Comfort

5. Indoor humidity

6. Indoor humidity trends

7. Date

8. Day/month display mode adjustment

9. Alarm clock

10. Snooze

11. Workday/weekend mode (alarm clock)

12. Weekday

13. Time (A: AM / P: PM)

14. Moon phase

15. Remote sensor channels

16. Automatic remote sensor channel switching function

17. High/low Temperature alert

18. Remote sensor low battery warning

19. Outdoor temperature

20. Outdoor temperature trends

21. Comfort

22. Maximum/minimum outdoor temperature and humidity

23. Outdoor humidity

24. Outdoor humidity trends

25. Atmospheric pressure trend (the weather station will detect the pressure, but will not display the pressure value)

26. Weather forecast

27. Maximum/minimum indoor temperature and humidity
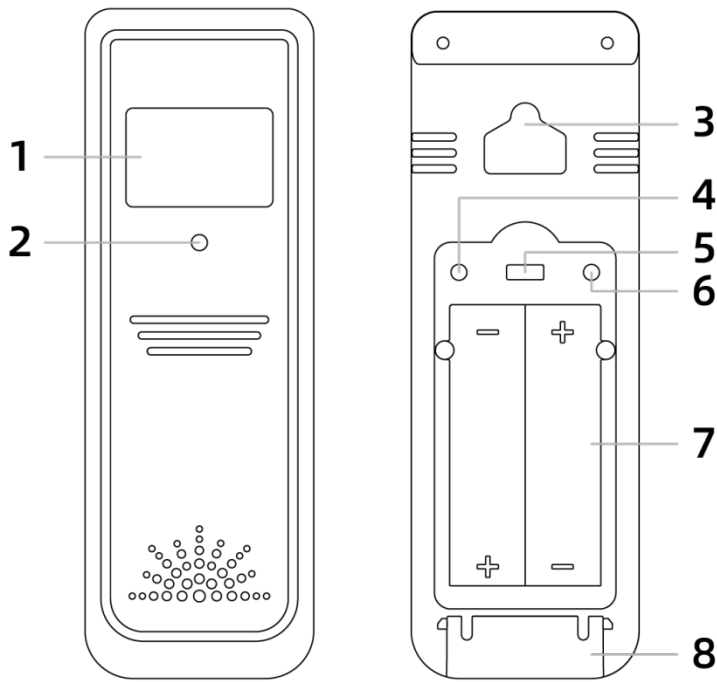
28.RCC function

29.Daylight saving time
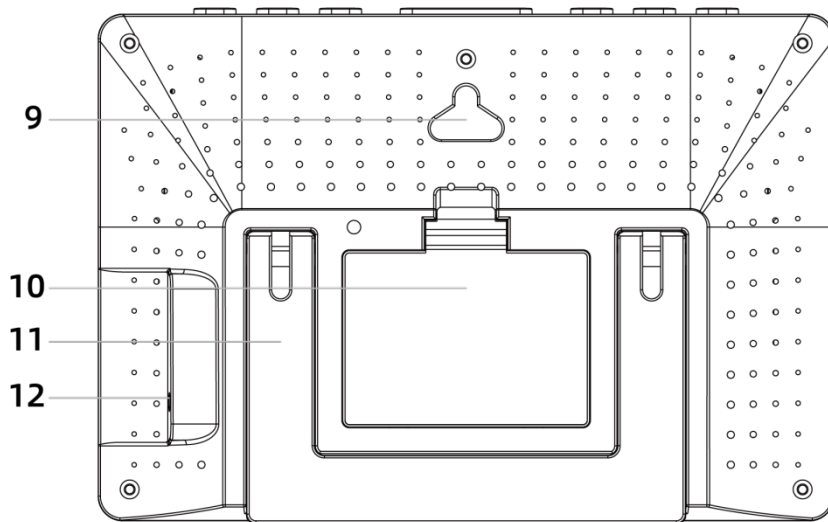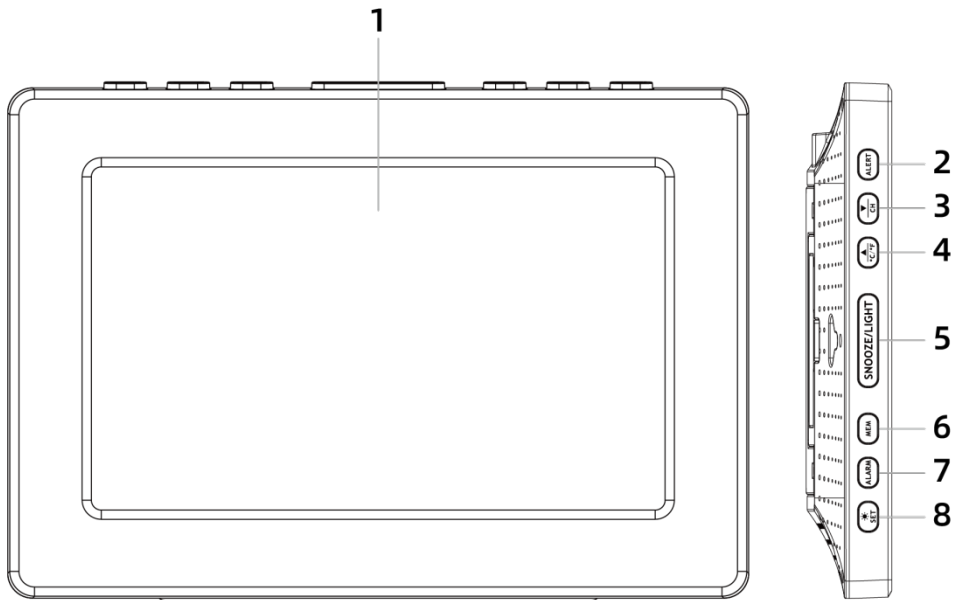
1. Screen

2. "**ALERT**" button

3. "▼CH" button

4. "▲°C/°F" button

5. "**SNOOZE/LIGHT**" button

6. "**MEM**" button

7. "**ALARM**" button

8. "☀SET" button

9. Hanging hole

10. Battery bay

11. Foldable bracket

12. Power adapter jack

Remote Sensor Introduction
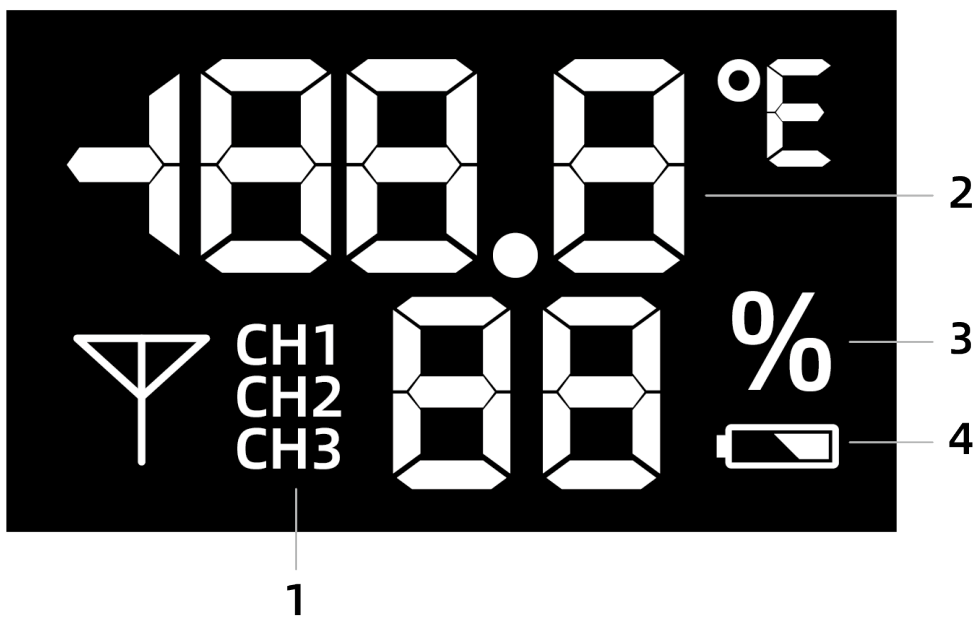
1. Signal channels

2. Temperature

3. Humidity

4. Low battery indicator

1. Screen

2. Indicator light

3. Hanging hole

4. ℃ or ℉ switch button

5. Channel switch button

6. Transmit signals immediately

7. Battery bay

8. Foldable bracket

Button Instructions

Buttons	SET	▲ ℃/℉	▼ CH	MEM	ALARM	ALERT	SNOOZE/LIGHT
Press (Normal mode)	Adjust brightness	Switch ℃/℉	Switch channel	View memories	Switch alarm display	Temperature alerts ON/OFF	Screen backlight / Snooze
Long-press (Normal mode)	Set time and date	RCC channel ON /OFF	Search remote sensor signals	Delete memories	Set alarms	Set temperature alerts	/
Press (Time setting)	Confirm setting	+1	-1	/	/	/	Exit setting
Long-press (Time setting)	/	Rapid increment	Fast decrement	/	/	/	/
Press (Alarm setting)	/	+1	-1	/	Confirm setting	/	Exit setting
Long-press (Alarm setting)	/	Rapid increment	Fast decrement	/	/	/	/
Press (Temperature alert setting)	/	+1	-1	/	/	Confirm setting	Exit setting
Long-press (Temperature alert setting)	/	Rapid increment	Fast decrement	/	/	/	/

Product introduction

▲ Calendar.

▲ Optional time display mode: 12 hours / 24 hours.

▲ Personalized alarm mode: alarms can be set separately for weekdays and weekends.

▲ Snooze alarm clock: the interval can be adjusted .

▲ Moon phase.

▲ Temperature and humidity,trend of temperature and humidity.

▲ Trend of atmospheric pressure. Pressure measurement range: 600 hPa/mb～1100 hPa/mb.

▲ Humidity: indoor and outdoor sensor measurement range: 10% RH ~ 99% RH.

▲ Temperature (℃ or ℉ can be switched).

Indoor weather station host:

Temperature measurement range: 0℃ ~ 60℃(32℉ ~ 140℉), temperature measurement resolution: 0.1℃ (32.18℉).

Outdoor remote sensor:

Temperature measurement range:-40℃ ~ 60 ℃ (- 40℉ ~ 140℉).

Temperature measurement resolution: 0.1℃(32.18℉); indoor and outdoor humidity measurement range: 10%-99% RH.

Humidity measurement resolution: 1%.

▲ Operating temperature: 0 ~ 50℃(32 ~ 122℉); operating humidity: 20 ~ 90% RH; storage temperature: -20 ~ 70℃ (- 4℉ ~ 158℉); storage humidity ： 15 ~ 95% RH.

▲ A signal receiving weather station can be connected with up to 3 signal sensors at the same time, and the temperature and humidity data of each sensor will be

automatically looped on the weather station screen. If you have only 1 remote sensor, please set the weather station and the remote sensor in the same channel and turn off the automatic channel changing function.

NOTE: only 1 remote sensor is included in the package. If you need more remote sensors, please contact us to buy more or buy it directly from our online store.

▲ Display of minimum and maximum temperature and humidity.

▲ Both the weather station and outdoor remote sensor can be wall-mounted or placed on a desktop.

▲ Radio frequency emission frequency of signal sensor: 433.92MHz.

▲ Weather forecast.

▲ Low voltage reminder function.

▲ Temperature alarm.

▲ Power supply.

Weather station:

Power adapter: 5 V═1.2 A or Battery: 3 × 1.5 V A A A

Battery: 2 × 1.5 V A A A

NOTE: the power adapter is included in the package but the batteries are not.

Reception of the Radio signal （Only for the RCC Type）

▲The clock automatically starts the RCC signal search after 3 minutes of any restart or changing of new fresh batteries. The radio mast icon " " starts to flash.

▲ At 1:00 /2:00 / 3:00 /4:00/5:00 am, the clock automatically carries out the synchronization procedure with the RCC signal to correct any deviations to the exact

time. If this synchronization attempt is unsuccessful (the radio mast icon " 📡 " disappears from the display), the system will automatically attempt another synchronization at the next full one hour. This procedure is repeated automatically up to total 5 times.

▲ To start manual RCC signal reception, press and hold down the " 🔼 " button for two seconds. If no signals received within 7 minutes, then the RCC signal search stops (the radio mast icon " 📡 " disappears) and start again at the next full one hour.

▲ During RCC reception，to stop searching radio signal, press the " 🔼 " button

NOTE:

▲ A flashing radio mast icon " 📡 " indicates that the RCC signal reception has started. A undisplayed radio mast icon " 📡 " indicates that the RCC signal was received unsuccessfully, a continuously displayed radio mast icon " 📡 " indicates that the RCC signal was received successfully.

▲During the RCC reception, when meet the alarm it will stop searching radio signal right away; when the alarm stop ringing it will automatically receive.

▲When the DST signal was received, it will appear " DST ".

▲When the radio mast icon " 📡 " appears,if set time manually the radio mast icon will become another icon " ▲ " .

▲ When the weather station is powered by the battery and search the RCC signal, the backlight will automatically turn off . You can press (SNOOZE/LIGHT) to wake up the backlight.

▲ When the weather station is powered by the adapter and search the RCC signal, in addition to the above methods, if you want to wake up the backlight ,you can press

(▲°C/°F) to turn off the RCC function.

Set Time Manually

▲ Press (☀SET) for 3 seconds to enter time setting mode, the interface will appear in 12 or 24 hour mode, press (▲°C/°F) and (▼CH) to choose your desired mode.

▲ (Only for the RCC type support) Press (☀SET) to confirm the setting, the "time zone" display starts to flash, and then press (▲°C/°F) or (▼CH) to choose a correct time zone.

▲The range of time zone setting:-12 ~ +12; When finish the time zone setting ,the time shows "time+variation of time zone"

NOTE: The time zone must be set correctly according to the weather station area, otherwise when the time signal is received, the time will be wrong;

▲ Press (☀SET) to confirm the setting, the "hour" display starts to flash, and then press (▲°C/°F) or (▼CH) to set a specific time.

▲ Press (☀SET) to confirm the setting, the "minute" display starts to flash, and then press (▲°C/°F) or (▼CH) to set a specific time.

▲ Press (☀SET) to confirm the setting, press (▲°C/°F) or (▼CH) to choose date display mode(D/M or M/D).

▲ Press (☀SET) to confirm the setting, the "year" display starts to flash, and then press (▲°C/°F) or (▼CH) to set a specific time.

▲ Press (☀SET) to confirm the setting, the "month" display starts to flash, and then press (▲°C/°F) or (▼CH) to set a specific time.

▲ Press (☀SET) to confirm the setting, the "date" display starts to flash, and then press (▲°C/°F) or (▼CH) to set a specific time.

▲ Press (☀SET) to confirm the setting, the "week" display starts to flash, and then

press 〔°C/°F〕 or 〔CH〕 to set the type of language.The order of display is: German - English - French - Italian - Spanish - Dutch - Danish;

▲ Press 〔SET〕 to confirm the setting, the "weather" display starts to flash, and then press 〔°C/°F〕 or 〔CH〕 to choose a suitable weather type.

▲ After finishing the above steps, press 〔SET〕 to save the settings and return to the main interface.

▲The following is the comparison of language and screen display about the week.

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
German	SON	MON	DIE	MIT	DON	FRE	SAM
English	SUN	MON	TUE	WED	THU	FRI	SAT
French	DIM	LUN	MAR	MER	JEU	VEN	SAM
Italian	DOM	LUN	MAR	MER	GIO	VEN	SAB
Spanish	DOM	LUN	MAR	MIE	JUE	VIE	SAB
Dutch	ZON	MAA	DIN	WOE	DON	VRI	ZAT
Danish	SON	MAN	TIR	ONS	TOR	FRE	LOR

Alarm setting

▲ Press 〔ALARM〕 the first time to view the alarm time of alarm1, press 〔ALARM〕 the second time to view the alarm time of alarm2, Press 〔ALARM〕 the third time to return to the normal display.(Press 〔ALARM〕 to view the alarm setting, then press 〔SET〕 to turn on / off alarm clock).

▲ Press 〔ALARM〕 for 3 seconds, until 🕐 and the "hour" display start to flash, then press 〔°C/°F〕 or 〔CH〕 to set a specific time.

▲ Press 〔ALARM〕 to confirm the setting, the "minute" of alarm 1 display starts to flash, and then press 〔°C/°F〕 or 〔CH〕 to set a specific time.

▲ Press 〔ALARM〕 to confirm the setting, M-F of alarm 1 start to flash, press 〔°C/°F〕 or

⏷CH to choose setting, only M-F flash (Ring from Monday to Friday), only S-S flash(Ring from Saturday to Sunday), or both M-F and S-S flash(both flash means everyday)

▲ Press ⒶLARM to confirm the setting, it enters the alarm snooze setting of alarm 1, press °C/°F and ⏷CH to set a specific time. The alarm snooze time is 5-30 minutes. Switch to OFF means turning off alarm snooze.(By default,the alarm snooze time is 5 minutes.)

▲ Press ⒶLARM to confirm the setting and enters the setting of alarm 2, set alarm 2 like alarm 1. After finishing the above steps, press ☀SET to save the settings and return to the main interface.

Note:

▲ In alarm setting mode, if there is no button operation within 20 seconds, it will automatically exit the setting mode and save the parameters that have been set; if you need to abort the setting, press SNOOZE/LIGHT to exit immediately and return to the main interface, and it will automatically save the parameters that have been set.

▲ When the alarm rings, press SNOOZE/LIGHT to enter alarm snooze mode, press other button, the alarm will stop. This operation will not affect another alarm.

▲ When the alarm rings, if there is no operation, the alarm will stop automatically after 2 minutes of continuous ringing, and automatically ring on time after 24 hours.

Lunar Phase

New Moon	Waxing Crescent	First Quarter Moon	Waxing Gibbous

Full Moon	Waning Gibbous	Third Quarter Moon	Waning Crescent
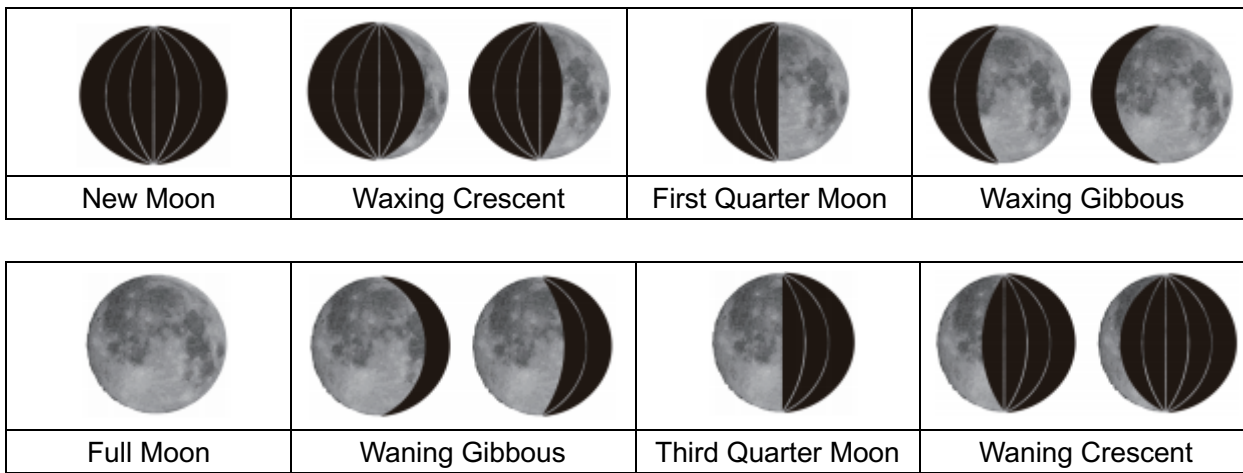
Switch Temperature Unit

In the normal display status, press 🔘(°C/°F) to switch between Celsius and Fahrenheit.

Indoor Comfort Expression

Indoor comfort is calculated based on indoor temperature and humidity, divided into 5

levels as below.

Comfort Expression	😄	🙂	😐	🙁	😖
Comfort Index	61-70	71-75 51-60	76-80 41-50	81-85 20-40	＞85 ＜20
Comfort Level	Comfortable ⟶ Too hot/ cold				

Temperature/ Humidity/ Air Pressure Trend

▲ When the temperature rise is ≥ 1℃(33.8°F), the data trend status is refreshed

immediately, and the screen displays ↗ ; When the temperature drop is ≥ 1℃

(33.8°F), the data trend status is refreshed immediately, and the screen displays ↘ ;

When the temperature change is no more than 1°C (33.8°F) within 1 hour, the screen

will display → .

▲ When the humidity rise is ≥ 3%, the data trend status is refreshed immediately, and the screen displays ⬈ ; When the humidity drop is ≥ 3%, the data trend status is refreshed immediately, and the screen displays ⬊ ; When the humidity change is no more than 3% within 1 hour, the screen will display ➔.

▲ When the air pressure rise is ≥ 2 hPa, the data trend status is refreshed immediately, and the screen displays ⬈ ; When the air pressure drop is ≥ 2 hPa, the data trend status is refreshed immediately, and the screen displays ⬊ ; When the air pressure change is no more than 2 hPa within 1 hour, the screen will display ➔.

Maximum and Minimum of Temperature and Humidity

▲ Press MEM to switch the maximum and minimum values of temperature and humidity. Press the first time to display the maximum temperature and humidity; Press the second time to display the minimum value; Press the third time to return to the current value.

▲ Press MEM for 2 seconds to clear the maximum and minimum value of temperature and humidity.

▲ If the ambient temperature of weather station or remote sensor is lower than the lowest value of its measuring range, it will display L L. L; otherwise, it will display HH.H

▲ When viewing the maximum or minimum value, if there is no operation within 5 seconds, the screen will automatically return to the current data。

Remote Sensor

▲ When the weather station is powered on, it automatically enters RF signal searching mode in 3 minutes, the outdoor temperature on the screen is displayed as

"- -.-", and RF icon ⬚ flashes; after 3 minutes, the receiving host automatically exits the searching status. If you need to manually enter RF signal searching mode, just press ⬚ for 3 seconds.

▲ When the weather station is collected to the remote sensor, press ⬚ for 3 seconds to clear the value of current signal channel if you want.

▲ A receiving host can connect up to 3 remote sensors at the same time. The remote sensor can not select the same channel at the same time, otherwise the signal conflicts and can not be successfully connected.

▲ When weather station is connected to 3 remote sensors, press ⬚ to switch the displayed signal channel temperature and humidity value.

- Press the first time to display the CH2 temperature and humidity value;

- Press the second time to display the CH3 temperature and humidity value;

- Press the third time, ↻ flashes, and the temperature and humidity values of three channels play in a loop;

- Press the fourth time to return to the display of CH1 temperature and humidity value.

Temperature Alarm

▲ In normal display mode, press ⬚ to turn on/ off the outdoor temperature alarm function;

▲ When ⬚ is displayed, the temperature alarm is turned on, otherwise it is turned off;

▲ The following are the steps to set the temperature alarm：

Press ⬚ for 2 seconds, ⬚ starts to flash, the upper limit of the temperature alarm is set at this time, and then press ⬚ or ⬚ to set a specific value.

Press ⬚ to confirm the setting, ⬚ starts to flash, the lower limit of the

temperature alarm is set at this time, and then press ⊙ or ⊙ to set a specific value.

Press ⊙ to confirm the setting.

▲ While in the setting state, press (SNOOZE/LIGHT), the setting will be automatically saved and exited.

▲ When the temperature reaches or exceeds the preset value, temperature alarm icon will flash and sound until the temperature returns to the preset alarm temperature range.

▲ Press any button to stop the temperature alarm, but the temperature alarm icon still flashes until the temperature returns to the preset alarm temperature range.

Low Battery Reminder

▲ The weather station and remote sensor have low battery reminder function; if ⊞ appears, please replace the battery as soon as possible.

Screen Backlight

▲ When the weather station is powered by the battery, press (SNOOZE/LIGHT) to wake up the backlight. Without any operation, the backlight will automatically turn off after 15 seconds.

▲ When the weather station is powered by the adapter, the backlight is always on, and the default brightness is 100%. If you need to adjust the backlight brightness, press ⊙ to adjust the backlight brightness level. Each time you press it, it will decrease 25% until it turns off.

▲ In the power by the adapter status, when the backlight turn off manually or in RCC

searching status, press SNOOZE/LIGHT to wake up the backlight.

▲ In the alarm snooze status, repeatedly press SNOOZE/LIGHT to turn on the backlight, this does not affect the ongoing snooze function.

Weather Forecast

▲ The weather station will forecast the weather in the next 12 hours.

▲ The weather forecast will be accurate under natural ventilation, if under the special indoor status(such as air-conditioned rooms) may produce large errors

▲ The weather forecast display refresh frequency is 1 hour.

▲ Sunny, slightly cloudy, cloudy, rainy, and heavy rain. These 5 weathers can be manually set. Snowy weather will show when the outdoor temperature is lower than -4℃ (24.8°F) and weather forcast is rainy. The screen will display snowflake.

▲ The weather forecast is based on temperature and air pressure. The data first comes from the remote sensor of CH1. If CH1 has no signal, the data of CH2 is used as the reference, and so on. If all signal channels have no signal, the data of the receiving host is used as the basis.

▲ The following are the corresponding weather icons:

Sunny	Slightly Cloudy	Cloudy	Rainy	Heavy Rain	Snowy