Weather Station

sisco

User Manual

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

Weather Station

Contents

FUNCTIONS

- Weather forecast.
  (Sunny, partly cloudy, cloudy, light rain, heavy rain)
- Wind speed.(0-180KM/H, 0-111mph)
- Wind direction.(0-359°)
- Rainfall data monitoring.(Today-Yesterday-Total)
- Automatic time calibration.(DCF)
- 12/24 hour time/month/day/week display.
- Alarm clock and snooze function.
- Indoor&outdoor temperature and humidity, °C to °F switchable.
- Temperature and humidity max/min record.
- Indoor&outdoor temperature and humidity change trend display.
- Indoor&outdoor temperature alert setting.
- Indoor humidity comfort indicator.
- Atmospheric pressure,moon phase.
- Past 12 hours pressure history curve BAR.
- 3-Level brightness backlight function.(DC power supply is valid)
- Battery low pressure indiction.
- 7 Languages of week can be switched.
  (EN→DE→FR→SP→IT→DU→DA)

- Power Supply:
  Weather Station: Adapter or 3 × LR6 AAA batteries;
  Sensor: 3 × LR6 AA batteries;

- Connection Distance:
  Weather station and sensor: 100M

SCREEN DISPLAY INTRODUCTION

1. Weather Forecast
2. Rainfall Data
3. Pressure Data
4. Pressure History
5. Time Display
6. Indoor Temperature and Humidity
7. Outdoor Temperature and Humidity
8. Moon Phase
9. Week Display
10. Date/Month Display
11. Wind Direction
12. Wind Speed

: Battery Low Pressure Icon

: Trend Arrow Indicator

MAX : Temperature and Humidity
MIN Max/Min Record

: Comfort Indication

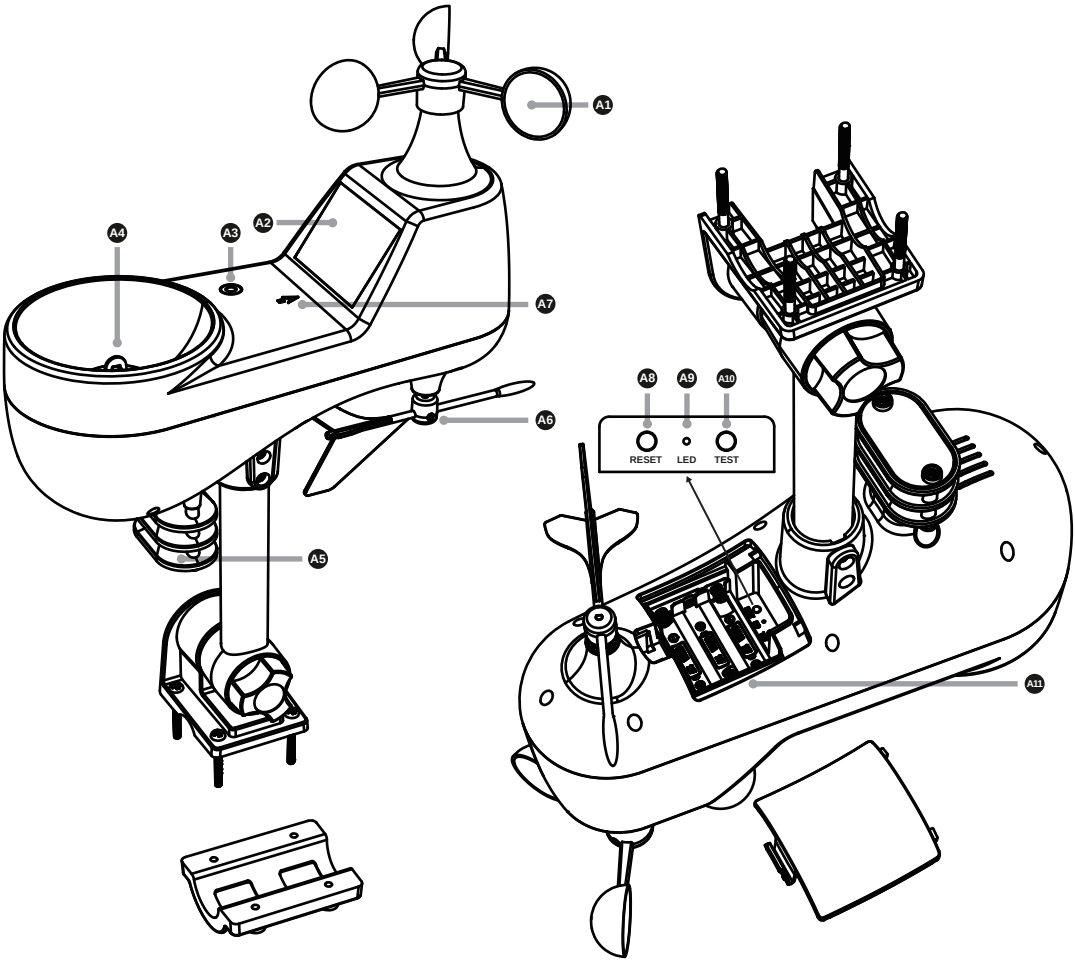
: Snooze Icon

: DFC Radio Signal

: Alarm Clock Icon

: Temperature Alert Icon

SENSOR APPEARANCE



A1: Wind Cups

A2: Solar Panel

A3: Bubble Level

A4: Rain Funnel

A5: Temperature & Humidity Induction Box

A6: Wind Direction Vane

A7: N & S Direction Mark

A8: Sensor Reset Button

A9: LED Indication

A10: Sensor Signal Button

A11: Sensor Battery Cover

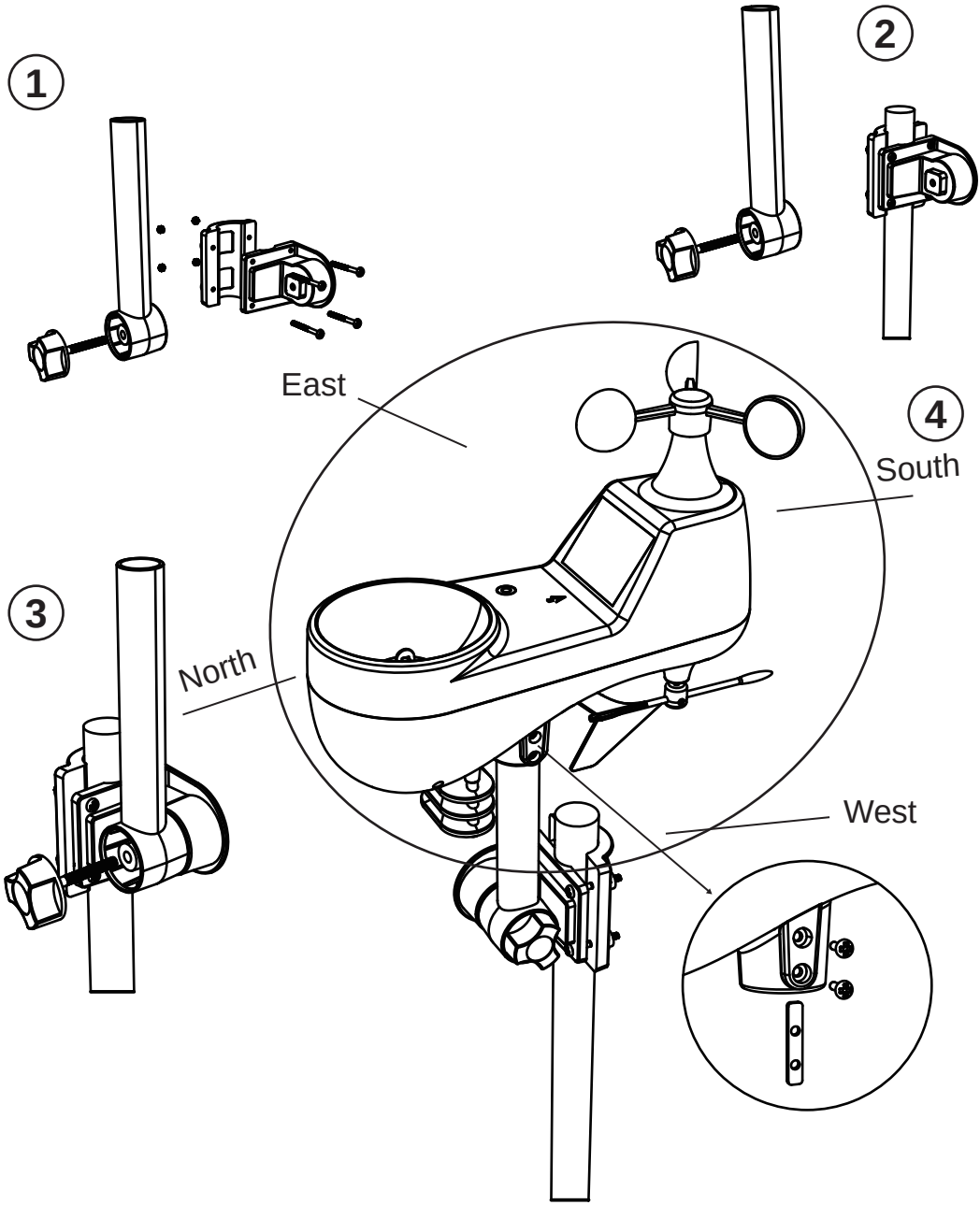
SENSOR INSTALLATION NOTES

- Mount in an open area clear for 15 meters (50 feet) in all directions.
- The sensor needs to be mounted on a sturdv platform or bracket that is mounted 1.5 m (5 ft) above the ground.
- The base of the sensor is screwed to the platform and the support frame. Tighten the large nut that secures the support rod to the base.
- Please pay attention to the installation direction of the sensor during installation. The north and south directions on the top of the sensor are the same as the compass.
- When installing the sensor, use the top bubble level to ensure the sensor level, otherwise the accuracy of the rainfall reading will be affected.
- After completing the above two steps, lock the two hexagon socket screws on the side of the sensor body.
- When installing, the fixing screws of the wind cup and the wind direction cursor should be tightened and tightened.
- The rainforest structure of the sensor needs to be cleaned regularly (recommended cycle 1-3 months,depending on the frequency of rain):

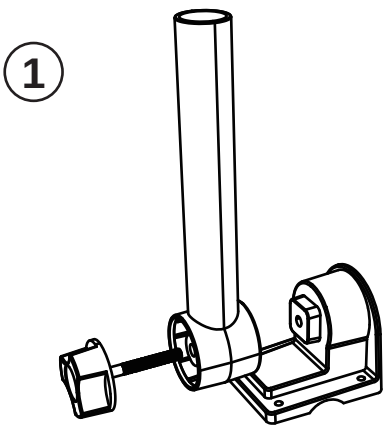
a. Remove the rainwater funnel (turn the rain sand funnel according to the direction of rotation shown).
b. Gently remove debris or insects from the rain sensor.
c. Remove debris from the rainwater funnel itself, especially debris from the funnel drain.
d. Remove the debris from the drain.
e. Reinstall the rainwater bucket.
h. Note: Do not apply oil to the rain sensor.

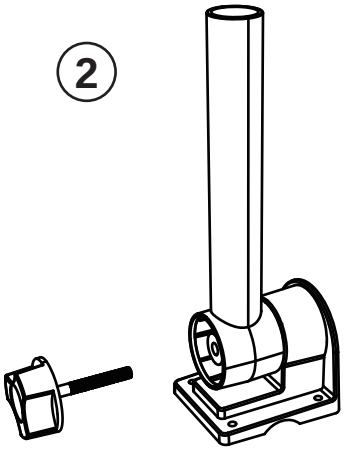
- Make sure the wireless sensor is installed within 100 meters of the weather station (empty,unobstructed). According to the thickness of the obstacle between the wireless sensor and the weather station, the distance should be shortened as much as possible(the distance after the wireless signal penetrates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

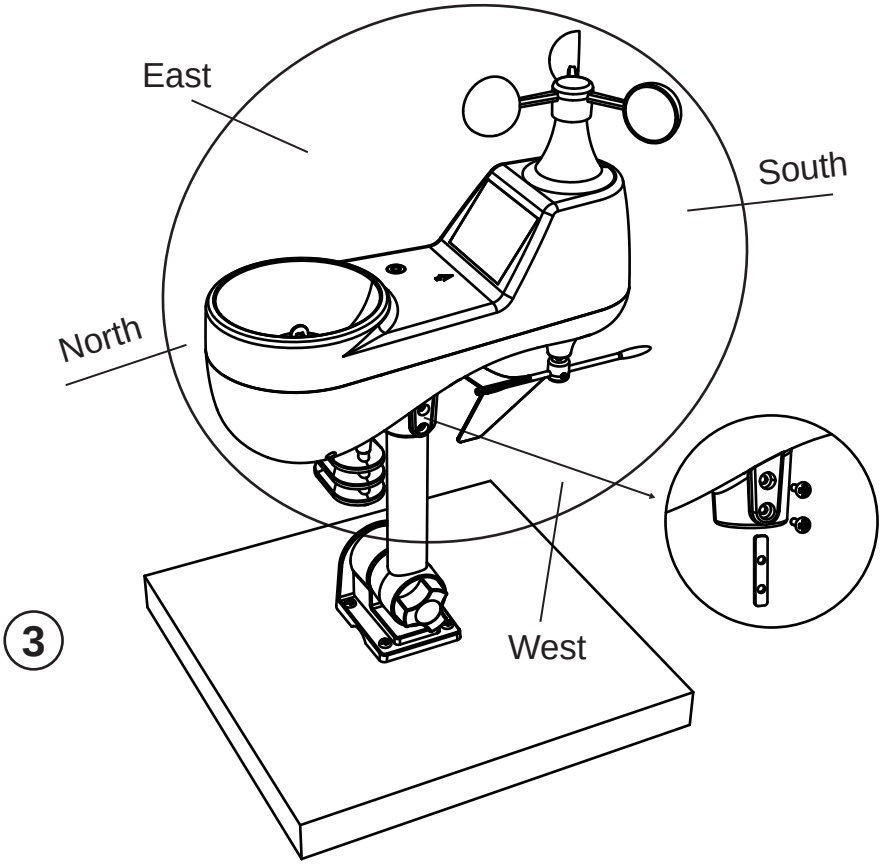
Method 1: install on the pole



Method 2: install on the ground







PRECAUTIONS BEFORE USE

1.After power on, weather station enter the 3-minute sensor reception; If the weather station receives data from the sensor within 3 minutes, it will exit the receiving mode.If need to receive sensor data again, press the button **ALARM** for more than 3 seconds to enter manual receiving mode.
2.After the 3-minute sensor reception is completed, it enters the DCF RCC 7-minute automatic reception mode.Please note that during the RCC reception process, the screen backlight will be off and no functions can be operated,only the backlight can be turned on.If you need to operate during RCC reception, press the button **DOWN** to exit the reception mode.

RADIO CONTROL CLOCK INSTRUCTION (RCC)

NOTE: In the process of RCC receiving the signal, the backlight will automatically turn off, except the backlight can be manually turned on, other functions cannot be operated. If you need to operate the weather station,press the button **DOWN** to exit the RCC receiving mode, and then to operate the weather station.

1.When entering RCC reception, the radio wave icon flashes; after receiving the signal, the radio wave icon will display and not flash.
2.In the standard mode, press the **DOWN** button for more than 3 seconds to enter the radio manual reception.
3.Automatically receive RCC: Regardless of whether the RCC signal is received or not, it will automatically enter the RCC reception at 1:00, 2:00, 3:00, 4:00, and 5:00 every morning; If the reception is successful at 3:00, the following 4:00 and 5:00 will not be opened for reception; no matter whether the reception is successful or not, RCC will enter the cycle again at 1:00 in the morning of the next day receive mode.
4.In the RCC reception mode, the detection of temperature, temperature and atmospheric pressure is not performed.
5.Weather station should be as far away from the device that is relatively large, such as: refrigerator, air conditioning, induction cooker,computer.

SETTING TIME MANUALLY

1.Press the button **MODE** for more than 3 seconds to enter the setting mode; After entering setting mode,each time you press the button **MODE** to confirm and enter the next setting item.
2.Setting sequence:
12/24H Format → Order of Day&Month → Year → Month → Date → Hour → Minute → Time Zone → °C/°F → hPa/inHg → mm/inch → kmh/mph → Week Language → Exit.
3.Each time you press the **UP** or **DOWN** buttons, the set item will be added or subtracted by one step.
4.20 seconds without any buttons operation, it will save the setting data and exit setting mode.

ALARM SETTING

1.The default time for alarm1 is 6:00, alarm2 is 8:00.
2.Press the button **MODE** to display alarm1 and alarm2 time.
3.Press the button **ALARM** to turn the alarm ON or OFF; When the alarm is turned on, the alarm icon will be displayed on the screen.
4.How to set alarm time?
For alarm1,press the button **MODE** to check alarm1 time,and then press the button **MODE** for more than 3 seconds to enter the alarm1 setting; the setting sequence: Hour → Minute → Exit. The setting method of alarm2 is the same as alarm1.
5.20 seconds without any buttons operation, it will save the setting data and exit setting mode.
6.When the alarm sounds, the alarm icon flashes.

SNOOZE

1.When the alarm sounds, press the **SNOOZE** button to enter the 5 minute snooze mode.
2.When the alarm sounds,press any button except **SNOOZE** button to stop the alarm.

WIRELESS SENSOR CONNECTION

1.After power on, weather station enter the 3-minute sensor reception; If the weather station receives data from the sensor within 3 minutes, it will exit the receiving mode.
2.If the weather station does not receive the sensor signal within 3 minutes, the weather station needs to receive it manually.
3.How to manually connect the weather station and the sensor?
First,press the button **ALARM** for more than 3 seconds,the outdoor wireless receiving symbol will flash;
Second,press the button **TEST** in the sensor battery compartment.
4.If you cannot connect manually, please try the following steps:
- Make sure the batteries are positioned correctly;
- Replace the batteries;
- Restart the weather station and sensor;
- Select a different location for the weather station/sensor;
- Reduce the distance required for data transmission between the weather station and the sensor;
- Check for any nearby sources of interference.

TEMPERATURE DESCRIPTION

1.Indoor temperature range: -9.9°C～50°C (14.0°F～122°F).
2.Outdoor temperature range: -40°C～60°C (-40°F～140°F).
3.Temperature accuracy: 0～40°C: ±1°C, Other range: ±2°C.
4.Temperature resolution: 0.1°C(°F)
5.Default unit: °C.(Press the button **MODE** for more than 3 seconds to enter the setting mode, please refer to **P09** for the operation sequence; When switching to °C and °F, press the **UP** or **DOWN** button to switch the temperature unit.)
6.When the detected temperature exceeds the measurement range of the weather station, the temperature will be displayed as LL.L or HH.H.

HUMIDITY DESCRIPTION

1.Indoor&outdoor humidity range: 20%RH～95%RH.

2.Humidity accuracy: 40%RH～80%RH: ±5%RH, Other range: ±8%RH.
3.Humidity resolution: 1%RH
4.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

1.Press the button **MEM** every time to check the MAX&MIN temperature and humidity record.
2.Press the button **MEM** for more than 3 seconds to clear the record of MAX/MIN temperature and humidity; temperature displays "--.-" for 3 seconds, and then return to the current temperature display.
3.The MAX/MIN temperatures and humidity are recorded for the day.The datas will be cleared and recorded again at 0:00 am every day.

TEMPERATURE ALERT

1.Press the button **ALERT** to ON/OFF the temperature alert; the alert is on when the alert icon display on screen.
2.Temperature alert setting:
Press the button **ALERT** for more than 3 seconds to enter temperature alert setting,press the button **UP** or **DOWN** to set the value you need.
3.Temperature alert setting order:
Indoor Hi Temperature → Indoor Lo Temperature →
Outdoor Hi Temperature → Outdoor Lo Temperature → Exit.

TEMPERATURE AND HUMIDITY TREND

1.The arrows indicate whether the measured temperature or humidity is decreasing, increasing or unchanged.
2.The weather station evaluates the measurements for the last hour. The arrow for a given sensor and value will point up or down if the change in the last hour is at least 1°C or 5%RH.

WEATHER FORECAST & PRESSURE SETTING

1.Pressure range: 300 hPa/mb～1100 hPa/mb(8.86inHg～32.48inHg).
2.Pressure accuracy: ±5 hPa/mb/0.15inHg.
3.Pressure resolution: 1 hPa/mb & 0.01 inHg.
4.Default unit: hPa.(Press the button **MODE** for more than 3 seconds to enter the setting mode, please refer to **P09** for the operation sequence; When switching to hPa and inHg, press the **UP** or **DOWN** button to switch the unit.)
5.Press the button **SNOOZE/LIGHT** for more than 3 seconds to enter the pressure and weather calibration,press the button **UP** or **DOWN** to change data, the setting order as below:
Pressure Data → Weather Calibration →Exit.
6.20 seconds without any buttons operation, it will save the setting data and exit setting mode.

WIND AND RAIN DESCRIPTION

1.Wind speed range: 0～180kmh (0～111mph).
2.Wind direction range: 0～359°.
3.Default unit of wind speed: kmh.(Press the button **MODE** for more than 3 seconds to enter the setting mode, please refer to **P09** for the operation sequence; When switching to kmh and mph, press the button **UP** or **DOWN** to switch the unit.)
4.Rain data range: 0～9999mm (0～393.6inch)
5.Default unit of rain: mm.(Press the button **MODE** for more than 3 seconds to enter the setting mode, please refer to **P09** for the operation sequence; When switching to mm and inch, press the button **UP** or **DOWN** to switch the unit.)
6.Press the button **RAIN** to switch rainfall display mode:
Today → Yesterday → Total.
7.Press the button **RAIN** for more for more than 3 seconds to clear the rainfall datas.
8.The maximum record of rainfall is 9999mm/393.6inch; the rainfall display flashed after the record reaches the maximum value, it must be cleared manually to update the data again.

MOON PHASE

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

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

BACKLIGHT

1. Adapter power: press the button **SNOOZE/LIGHT** to set the backlight level (high, medium, low, off).
2. Battery powered: to switch on the short-term backlight for 8 seconds, press the **SNOOZE/LIGHT** button.

BATTERY CHANGE

1. Replace the batteries in the wireless sensor if the battery symbol appears on the display next to the transmitter readings.
2. Replace the batteries in the indoor unit if the battery symbol appears on the indoor display.
3. Please note: after replacing the batteries, contact between the outdoor transmitters and the station must be re-established - so proceed as when you first start the unit or start a manual search for a transmitter.

COMFORT INDICATION

The climate level at the measuring point is shown on the display with a smiley icon:

icon	temperature	condition	relative humidity
☺	20 - 28 °C	and at the same time	40 - 70 %
😐	-	or	<40 %
☹	-	or	> 70 %

PROBLEM SOLVING

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

The weather station will activate RCC reception when it is just powered on or at 1:00, 2:00, 3:00, 4:00, 5:00 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, press the button **DOWN** 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 **P08**.)

Q2.Why is the time automatic calibration incorrect ?

The signal of clock is DCF, signal received by DCF is the German time. If your local time the same as German time, you don't need to adjust ZONE. If your local time is 1 hour behind Germany, you need to adjust the ZONE time to -01; if your local time is 1 hour ahead of Germany, you need to adjust the ZONE time to 01.For example, the UK time is 1 hour behind the German time, the ZONE should be adjusted to -01. (If need to change time ZONE, please refer to the **P09** for the operation sequence, When switching to **TIME ZONE**, press the **UP** or **DOWN** button to adjust time difference.)

Q3.What should you do if the sensor is not connected?

First,press the button **ALARM** for more than 3 seconds,the outdoor wireless receiving symbol will flash;
Second,press the button **TEST** in the sensor battery compartment.
If you still cannot connect manually, please refer to the fourth point of wireless sensor connection on **P10** to try again.