

PROFESSIONAL WEATHER STATION

ENGLISH

- Instruction Manual -

1/ FUNCTION DESCRIPTION

- 5 kinds of weather forecast, BAR display in dynamic curve, pressure measurement, history record and trend display of pressure in the past 12 hours
- Max/min value of indoor temperature and humidity
- Five channels in total. Three channels for outdoor temperature and humidity, one for wind speed and direction, and the other for rainfall.
- Max/ min value and trend of outdoor wireless temperature and humidity.
- Real-time outdoor wireless wind speed and direction, the average of wind speed, wind trend and max and min value of the wind information.
- Outdoor heat index, dew point, chill coefficient.
- Display the rainfall of current day; the current rainfall rate; Record of the past 1 hour, 24hours, 1 week and 1 month.
- Perpetual calendar with moon phase, RCC DCF
- Alarm, backlight, snooze

2/ MAIN FUNCTION

- 12 functional keys: -/RCC、+/ $^{\circ}$ C/ $^{\circ}$ F、MODE、CHANNEL、MAX/MIN、SNOOZE/LIGHT、ALERT、HISTORY、RAINFALL、ALARM ON/OFF、HI/DP/CHILL、WIND.
- Automatically clock receiving (DCF)
- Daylight saving time.
- Time and perpetual calendar displaying.
- Two time format to be selected 12/24 hr.
- Single alarm, five minutes snooze function.
- Two temperature display format options ($^{\circ}$ C / $^{\circ}$ F).
- Indoor temperature and humidity displaying.
- Range of indoor temperature testing: -10° C ~ 60° C (14° F ~ 140° F) testing cycle: 30 seconds
- Range of indoor humidity testing: 20% ~ 95%.
- Max and min values of Indoor temperature and humidity.
- Three different wireless channels work together for three sets receiving of outdoor temperature and humidity. Range of temperature testing: -40° F ~ 158° F; Testing cycle: about 1 minute.
- The max and min of outdoor temperature and humidity.
- The up and low limit of indoor and outdoor temperature alarm.
- Indoor/ outdoor temperature trend.
- Range of outdoor wind speed and direction testing: 00KM/Hr ~ 150KM/Hr, 16 wind directions index.
- The average wind speed, max and min record and / trend of wind speed.

- The average and real-time wind speed display.
- RF outdoor rainfall detection.
- Rainfall display: total rainfall of the day, current rainfall rate, rainfall of the past 1 hour & 24 hours, 1 week and Last month
- Unit to select: mm (/ h) or inch (/ h).
- Calculate of outdoor Dew point, Heat index and Wind chill.
- 5 kinds of weather forecast: sunny, semi-sunny, cloudy, rainy and stormy.
- Atmospheric pressure unit selection: mb / hpa or inHg.
- Record of atmospheric pressure changes in the past 12-hour.
- BAR display of the atmospheric pressure in the past 12-hour.
- Moon phase calculate.
- Receiver can display low power index of 4 parts: Receiver, temperature sensor , wind speed sensor , rainfall sensor.
- LED backlight.

3/ POWER AND RESET

- After put on the battery, LCD will display three seconds with a sound of BI at the sametime, start detecting temperature humidity and pressure inside the sensor, and then automatically enter the RF and RCC receiving. RCC receiving for 7 minutes, exit after received or press "-/RCC" key to exit.
- Perpetual calendar defaults to 1 January, 2009 0: 00.
- Alarm default (AM) 7:00.
- The time format default for 24 hr.
- Default temperature unit (DCF): °C.
- Default weather symbol: cloudy.
- Default pressure unit is hpa mBar.
- Default rainfall unit is mm (mm/hr).

4/ OPERATION

4.1/ KEY FUNCTIONS

| OPERATION FUNCTION | | MODE | ALARM | ALA | +°C/°F | - / RCC | HI/DP/CHILL | SNOOZE/LIGHT | CHANNEL | RAINFALL | ALERT | MAX/MIN | HISTORY | WIND |
|---------------------------|------------|--|------------------------------|--------------------------|-------------------------|--------------------------------------|---|---|-----------------------------|------------------------------------|---|--|--|------|
| Normal mode | Press once | Switch between alarm mode /time mode | off alarm under setting mode | | Switch between °C/°F | Switch time zone, stop receiving RCC | Switch among Heat Index /Dew Point /Wind Chill under not setting mode | Backlight for 5second,press into snooze when alarming | Switch between CH1, 2, 3, | Switch display of rainfall | On/off temperature alarm | To check max And min value of temperature/ humidity and wind speed | To check pressure of the pass 12 hours | --- |
| | Hold | Enter time setting mode (when in alarm mode enter alarm setting) | | --- | Force into RCC receive | Clear all RF channels | | | Enter rainfall unit setting | Enter setting of temperature alarm | Clear all records of temperature and humidity | Enter relative pressure setting | Enter relative wind setting | |
| Time setting | Press once | Confirm setting | | Ahead by one step | Back by one step | --- | | | --- | --- | --- | --- | --- | |
| | Hold | --- | | Ahead by 8 steps /second | Back by 8 steps /second | --- | | | --- | --- | --- | --- | --- | |
| Alarm setting | Press once | Confirm setting | | Ahead by one step | Back by one step | --- | | | --- | --- | --- | --- | --- | |
| | Hold | --- | | Ahead by 8 steps /second | Back by 8 steps /second | --- | | | --- | --- | --- | --- | --- | |
| Temperature alarm setting | Press once | --- | | Ahead by one step | Back by one step | Select the channel | | | --- | Confirm setting | --- | --- | --- | |
| | Hold | --- | | Ahead by 8 steps /second | Back by 8 steps /second | --- | | | --- | --- | --- | --- | --- | |
| Pressure setting | Press once | --- | | Ahead by one step | Back by one step | --- | | | --- | --- | --- | --- | Confirm setting | |
| | Hold | --- | | Ahead by 8 steps /second | Back by 8 steps /second | --- | | | --- | --- | --- | --- | --- | |
| Rainfall setting | Press once | --- | Change rainfall unit | | | | | Confirm setting | --- | --- | --- | --- | | |
| wind speed | Press once | --- | Ahead by one step | Back by one step | | | | --- | --- | --- | Confirm setting | | | |
| | Hold | --- | Ahead by 8 steps /second | Back by 8 steps /second | | | | --- | --- | --- | --- | | | |

| | | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| setting | | | | | | | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

4.2.1/ MODE

- In normal mode, press MODE once to check ALARM, DST; Hold to enter time setting mode.
- In alarm mode, hold to enter alarm setting.

4.2.2/ ALARM

- In normal mode or alarm mode, press ALARM ON/OFF key to on/off alarm.

4.2.3/ +/C/F

- When setting, press +/°C/°F once to adjust by one step (ahead), hold more than 2 seconds to adjust fast by 8 steps/ second.
- In normal mode, press to switch between °C/°F

4.2.4/ -/RCC

- In setting mode, press -/RCC to adjust by one step (back), hold more than 2 seconds to adjust fast by 8 step/second.
- In normal mode, press to switch the ZONE OFFSET +1 →+2 →-1→normal.
- In normal mode, Hold more than 2 second force into RCC receiving mode, press again to exit.

4.2.5/ HI/DP

- Switch among HEATINDEX、 DEWPOINT and WINDCHILL

4.2.6/ SNOOZE

- In normal mode, press SNOOZE to light for 5 seconds.
- When alarm, press SNOOZE key stop alarm and into five minutes snooze mode.

4.2.7/ CHANNEL

- In normal mode, press CHANNEL to switch RF channels CH1 --> CH2--> CH3 -->cycle display.
- In normal mode, press CHANNEL key longer than 2 seconds, clear all outdoor channel records (outdoor temperature and humidity, wind speed, rainfall).
- Channel set in the ALERT mode, select the channel settings.

4.2.8/ RAINFALL

- In normal mode, press RAINFALL to switch among the current rainfall rate, the rainfall in the past 1 hour, past 24 hours, past 1 week and past a month. Press again to back to rainfall display of current day.

4.2.9/ ALERT

- In normal mode, press ALERT once to on/off temperature alarm.
- In normal mode, hold ALERT more than two seconds to enter temperature alarm setting.
- In temperature alarm setting mode, press ALERT to confirm setting item.

4.2.10/ HISTORY

- In normal mode, press once to check pressure record in the past 12 hours, hold for more than two seconds into relative pressure setting.
- Setting order:

Select LOCAL → weather state setting → unit setting (mb hpa or inHg) →exit.

Select SEA LEVEL → weather state setting → unit setting (mb hpa or inHg) → sealevel setting →exit.

4.2.11/ WIND

- Hold more than two seconds into wind speed setting, press "+/°C/°F " or "-/RCC" to select unit and to set average wind speed.

4.2.12/ MAX / MIN

- Press MAX / MIN to check the max value of indoor and outdoor temperature humidity and wind speed. The display will continue for 20 seconds if without pressing any key.

- Press again to check the min value, the display will continue for 20 seconds. Press again back to normal display.
- When display max or min, hold MAX / MIN for 2 seconds to clear the present memory of max/min value and then back to the normal display mode.

4.3/ TIME SETTING

- In normal mode, hold "MODE" for more than 2 seconds into time setting.
- Time setting order: hour→ minute →year (2000-2099 year) →month date / date month→12/24H → exit
- The setting item will twinkling at a frequency of 1HZ.
- Press MODE to confirm the setting and turn to next setting item.
- Press "+/°C/°F" once to ahead one step, hold more than 2 seconds to ahead by 8 steps/ second.
- Press "-/RCC" once to back one step, hold more than 2 seconds to back by 8 steps/ second.
- Without any effective handling more than 20 seconds, will exit setting automatically.

4.4/ ALARM SETTING

- 1. Hold MODE more than into ALARM setting.
- 2. Setting order: ALARM hour→ ALARM minute →exit.
- 3. When setting, the setting item will twinkling at a frequency of 1HZ.
- 4. Press MODE to confirm the setting item and turn to next setting.
- 5. Press "+/°C/°F" once to ahead one step, hold more than 2 seconds to ahead by 8 steps/ second.
- 6. Press "-/RCC" once to back one step, hold more than 2 seconds to back by 8 steps/ second.
- 7. Without any effective handling more than 20 seconds, will exit setting automatically.
- 8. When into alarm setting, the alarm will be on automatically.

4.5/ TEMPERATURE ALERT SETTING

- Press "ALERT" to on/ off temperature alert.
- Hold "ALERT" more than 2 seconds into alert setting.
- Setting order: upper limit→lower limit →exit, in the setting mode, press CHANNEL to select the channel of outdoor temperature alert.
- Default upper limit of indoor temperature is 60 °C (122 °F) and outdoor temperature is 70 °C (158 °F) , the lower limit is: indoor -10 °C (14 °F), outdoor -40 °C(-40 °F).
- When setting, the setting item will twinkling at a frequency of 1HZ.
- Press "ALERT" to confirm setting item and turn to next setting.
- Press "+/°C/°F" once to ahead one step, hold more than 2 seconds to ahead by 8 steps/ second.
- Press "-/RCC" once to back one step, hold more than 2 seconds to back by 8 steps/ second.
- Without any effective handling more than 20 seconds, will exit setting automatically.
- When into alert setting, the alert will be on automatically.

4.6/ PRESSURE SETTINGS

- In normal mode, press "HISTORY" once to check record of pressure in the past 12 hours.
- Hold "HISTORY" more than 2 seconds into relative setting of weather.
- Setting order:
Select LOCAL →weather state →unit option (mb hpa or inHg) →exit.
Select SEA LEVEL → weather state → unit option (mb hpa or inHg) → sealevel setting →exit.
- When setting, the setting item will twinkling at a frequency of 1HZ.
- Press "HISTORY" to confirm setting item and turn to next setting.
- Press "+/°C/°F" once to ahead one step, hold more than 2 seconds to ahead by 8 steps/ second.
- Press "-/RCC" once to back one step, hold more than 2 seconds to back by 8 steps/ second.

- Without any effective handling more than 20 seconds, will exit setting automatically.

4.7/ WIDE SPEED SETTING

- Hold “WIND” more than 2 into wind relative setting.
- Setting order: select unit → time of average wind speed → exit.
- When setting, the setting item will twinkling at a frequency of 1HZ.
- Press “Wind” to confirm setting item and turn to next setting.
- When setting unite, press “+°C/°F” or “-/RCC” to select m/s、Km/h、mph、knots
- When in time setting of average wind speed, press “+°C/°F” once to ahead one step, hold more than 2 seconds to ahead by 8 steps/ second.
- When in time setting of average wind speed, press “-/RCC” once to back one step, hold more than 2 seconds to back by 8 steps/ second.
- Without any effective handling more than 20 seconds, will exit setting automatically.

4.8/ RAINFALL SETTING

- Hold “RAINFALL” more than 2 seconds into rainfall setting.
- When setting, the setting item will twinkling at a frequency of 1HZ.
- When in unit setting, press “+ / °C / °F” or “-/RCC” to select INCH, MM.
- Press “RAINFALL” or without any effective handling more than 20 seconds, will exit setting automatically.

5/ FUNCTION AND EFFECT

5.1/ RF RECEIVING

- When power on, it will automatically into RF receive for 3 minutes after temperature and humidity testing. 3 minutes later into RCC receiving.
- In normal mode, press Channel more than 2 seconds to force clear all registration information of channels
- If the registered CH temperature does not receive any effective signals from the same ID Code in 60 minutes, the CH temperature will display twinkling.
- If the wind speed does not receive any effective signals from the same ID Code in 60 minutes, it will display twinkling.
- If the rainfall does not receive any effective signals from the same ID Code in 60 minutes, it will display twinkling.
- When the information of temperature / wind speed / rainfall lost, it will return to display after receive the signal again.

5.2/ RCC RECEIVING FUNCTIONS

- Enter the RCC receiving conditions:
 - When change the battery or reset to enter RCC receiving.
 - Automatically receiving RCC at 2:03, 3:03, 4:03, and 5:03 everyday.
 - Press “RCC ” 2 seconds receive the RCC receiving comely.
- RCC receiving time is 7 minutes.
- Symbol of RCC receiving: 
- When into RCC receiving, the tower-like RCC symbol will twinkling at a 1HZ frequency.
 - When received signals successfully, RCC receiving symbol will display fully and exit receiving mode.
 - When successfully received signal, the sign of the RCC display quiescence and exit the receiving mode
- When RCC receiving, there are no functions of other keys. Press “-/RCC” will exit receiving mode
- If failed to receive present-day, time for receiving next day is 2:03 a.m..
- When in RCC receiving, exit RCC receiving and turn into alarm when alerting.
- DST symbol on LCD displays when received DST signals. RCC & DST symbol disappears after resetting time when RCC & DST symbol displaying.

5.3/ ALARM FUNCTION

BUZZER alarm for 2 minutes and alarm mode as below

- 0-8 seconds: beep once every second

- b. 9-22 seconds: beep twice each second
- c. 23-56 seconds: beep four times each second
- d. 57-120 seconds, serial beep.

➤ When alarming, press SNOOZE and prolong for 5 minutes, press other keys to exit.

5.4/ TEMPERATURE AND HUMIDITY FUNCTIONS

Indoor temperature scope: -10 °C ~ +60 °C (14 °F ~ +140 °F).

- Humidity detection scope: 20% ~ 95%.
- Outdoor temperature display scope: -40 °C ~ +70 °C (-40 °F ~ +158 °F).
- Detecting indoor temperature cycle: 30 seconds.
- Temperature testing accuracy: +/-1 °C when in 0 °C~50 °C (32 °F ~ +122 °F), +/-1.5 °C when in -10 °C~0 °C(14 °F ~ +32 °F) and 50 °F~60 °F(122 °F ~ +140 °F).
- It will stop testing when in alarming or in RCC receiving.

5.5/ TEMPERATURE ALARM FUNCTION

Default upper limit of indoor temperature is 60 °C and outdoor temperature is 70 °C ,the lower limit is: indoor -10 °C, outdoor -40 °C.

- When alarming, relative temperature and alarming symbol is twinkling
- Temperature alarm buzzers:
 - Continue alarming 4 Bi per second.
 - Stop until the conditions meets alarm.
- Stop alarm conditions:
 - Press any key to stop the temperature alarming, alarm again the next minute.
 - Stop alarming when the temperature back to the range of setting temperature.

5.6/ FORECAST AND PRESSURE

- Pressure units: Hpa / Mb or InHg.
- 5 kinds of weather forecast.
- Temperature, humidity and wind speed display.
- Past 12 hours pressure data record.
- Past 12 hours BAR pressure chart display.

5.7/ OUTDOOR WIND CHILL HEAT INDEX AND DEW POINT

Automatically calculate the channels of outdoor Wind Chill, Heat Index and Dew Point value.

- According to outdoor temperature and Wind speed to calculated Wind Chill value; Display the current value when temperature higher than 4.4 °C (40 °F)
- According to outdoor humidity and temperature to calculated Heat Index value; Display the current value when temperature lower than 4.4 °C (40 °F)
- According to outdoor humidity and temperature to calculated Dew Point value

5.8/ WIND SPEED AND WIND DIRECTION

- 16 levels of wind direction
- Gust show.
- Display the average wind speed of user-defined (1-19 minutes average wind speed adjustable).
- The trend of the average wind speed.
- Unit: M / S, KM / H, MPH, Knot.
- When the anemometer reset, adjust the wind vane to the north of compass manually, then press the TX button inside the wind cup.

5.9/ RAINFALL

- Rainfall unite: mm (/ h) or inch (/ h)
- Intraday rainfall.
- The current rainfall rate.
- Total rainfall of 1 past hour.
- Total rainfall of 24 past hours.
- Total rainfall of 1 past week.
- Total rainfall of 1 past month

6/ DETAILS AND PRECAUTIONS ON THE USE OF BATTERIES

- Discard a used battery in nature or garbage pollutes and prevents the recovery of recyclable materials.

It is therefore important **to limit consumption of batteries** and follow these guidelines:

- focus on alkaline batteries (that last longer than the saline batteries) and when possible, rechargeable batteries
- deposit batteries and accumulators in specific containers arranged among traders.

For example, metals will be valued and polluted the environment because they contain heavy metals hazardous to health and the environment primarily (cadmium and nickel)

- The piles must installation by respecting the polarity indicated on the apparatus and the pile.

An incorrect positioning can is to damage the apparatus, is to cause escapes on the level of the pile, is to the extreme to cause a fire or the explosion of the pile.

- To ensure proper operation, the batteries must be in good condition. In case of abnormality in the functioning of the device, put fresh batteries

- Never attempt to recharge non-rechargeable batteries. They could run, warm up, causing a fire or explosion.

- Replace all batteries at the same time. Never mix zinc batteries with alkaline batteries or rechargeable batteries

- The batteries must be removed from the device

- Also, remove the batteries from your device if you do not use it for a long time, if the batteries may leak and cause damage.

- Never try to short-circuit the battery terminals

- Never dispose of batteries in fire, they might explode

- Charging of batteries is to be performed by an adult.

- Remove batteries from the device before reloading.

- We recommend an adult to supervise children when they change the batteries so that these instructions are complied with or to make himself the replacement of batteries.

- If a battery is swallowed, immediately consult a doctor or poison control center nearest you. Do not forget to carry the product with you.

photo 1

RAIN GAUGE



- Fix rain gauge on the floor from the screw.

photo 2

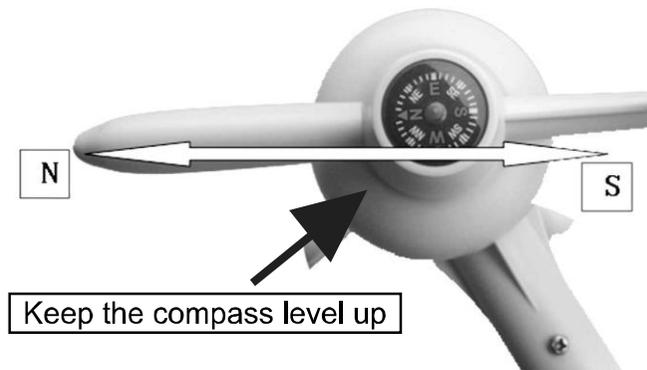
ANEMOMETER



- Fix anemometer in the irons. Fix the bar into the holes with screws.

photo 3

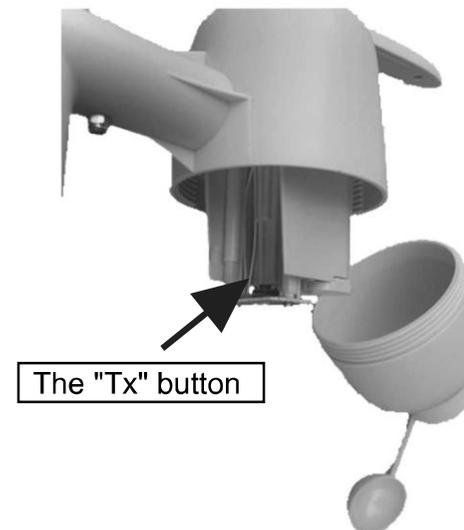
ANEMOMETER



- Set the direction of the north.

photo 4

ANEMOMETER



- Find and press the "Tx" button.

- Fix the anemometer as shown on the picture 2, then install 2 AA batteries.
- Push the wind vane towards the true north, based on the indication of the compass on the wind vane.
- Check that the wind vane is correctly oriented, then press on the button "TX" (picture 4): the system will consider this direction as being the default true north (picture 3).
- Each time you replace the batteries of the anemometer, or you change the location, check through the method above that the wind vane is correctly oriented towards the true north.



The symbol opposite indicates that the electric and electronic components are the subject of a selective collection, it represents a dustbin on wheels barred of a cross. The electric and electronic products can contain substances having negative effects on the environment and health. Worn, they should not be thrown with domestic waste but to be imperatively recovered in the selective collections: dump, associations of social economy and interdependent.

The selection of waste decreases the potential effects on the environment and human health due to the substances dangerous which can compose certain components electric and electronic.

Take an active part: to remove you not from the apparatuses with domestic waste!

