Transmitting control

Four Buttons: Power button(1)
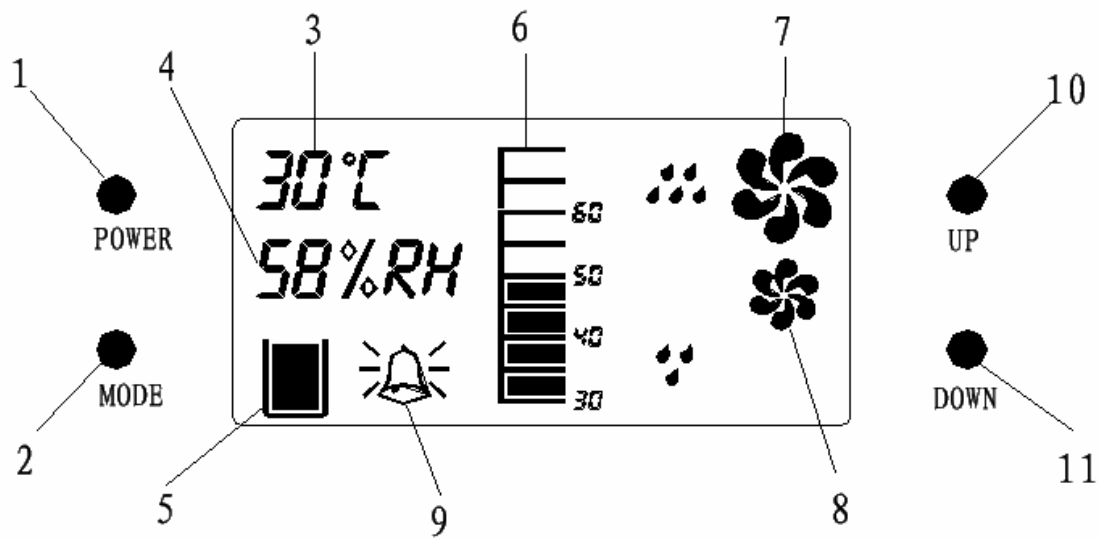**Mode** button(2)
"UP" button (10)
"DOWN" button(11)
LCD: Fan speed high(7), Fan speed low(8), RH setting bar(6),ambient temperature(3), ambient RH(4),buzzer(9) and full-bucket(5).
Two Sensors: ambient temperature sensor, RH sensor

1. Power-off mode

User can shut down the power at any time. When the power is shut, LCD will be off, and all displays & outputs on receiving-control will be shut down also.

2. Power-On Mode (Operating Mode)

LCD is on, ambient temp and ambient RH will be displayed. RH setting bar shows the user set-point, initial is 35%. Fan speed shows the previous set fan speed, initial is fan speed high.
Compressor & fan will be on if the ambient RH is **5%** higher than user set point.
Once the room RH reaches **3%** below the user set point, compressor & fan will be turned off sequentially.

3. Fail-safe mode

If either the humidity sensor or thermistor fails to work properly, the control will run in fail-safe mode. The fan will run with user selected fan speed and the compressor will cycle with **52** minutes on / **8** minutes off sequence.

4. Setup mode

The control will automatically return to Operating Mode if the setup process is not completed within **2 minutes**.
All the changes made by user will be effective immediately. However, compressor on/off sequence MUST follow the Criteria of compressor control.
a. Fan speed setup
Setup Mode can be activated by pressing '**MODE**' button in Operating Mode. All icons on LCD display will be off except the icons of fan speed, the icon of selected fan speed will flash. '**UP**' & '**DOWN**' button can be used to change the fan speed.
b. RH setup
Pressing '**MODE**' button again, RH setting bar with numbers will be displayed. '**UP**' &

'**DOWN**' button can be used to change the RH set point. RH blocks will be showed as solid & flash with selected RH set-point on LCD display.

Once the RH bar reaches the highest block, the control will switch to **Fan-Only Mode**, compressor will be turned off irrelevant to the ambient humidity.

Once the RH bar reaches the lowest block, the control will switch to **Continuous Mode**, compressor will be always on irrelevant to the ambient humidity.

c. Temperature Unit

Pressing '**MODE**' button again, temperature readout will be displayed with selected unit ('C or 'F). '**UP**' & '**DOWN**' button can be used to change the unit.

d. Buzzer setup

Pressing '**MODE**' button again will activate buzzer setup, **'UP' & 'DOWN'** button can be used to set buzzer on or off. .

e. Exit from Setup-Mode

Pressing '**MODE**' button again will bring the control back to **Operating Mode.**

5. Yard Mode

   ONE TO ONE :

First, you keep the receiving-control and transmitting-control off. Then press '**UP**' & '**MODE**' at the same time on transmitting-control for 2 sec and the transmitting-control will emit "one to one" yard. Finally, you press fan-speed button on receiving-control. Now you will hear a "BI", it means the "one to one" is ok.

In ONE TO ONE mode, one transmitting-control just controls one receiving-control.

   ONE TO ALL:

First, keep the receiving-control and transmitting-control off. Then press **'UP'** & '**MODE**' at the same time and press "**POWER**" in succession. Now, the

transmitting-control is on and emit "one to all" yard. All receiving-control beside the transmitting-control will receive the yard and be controlled by this transmitting-control. It means "ONE TO ALL" is ok.

In ONE TO ALL mode, one transmitting-control just controls all receiving-control.

6. Self-test Mode

Keep the LCD off, press '**UP**' & '**DOWN**' at the same time and press "**POWER**" in succession. All symbol on LCD will light, it means the self-test mode.

1) Test LCD

Press '**UP**' ,all clear except "88° E" & "88%RH".

Press '**UP**', all clear except "BUCKET" & "BUZZER".

Press '**UP**', all clear except "RH setting bar".

Press '**UP**' ,all clear except "big fan" , "small fan" , "sun" and "compressor".

Press '**UP**', all light.

Press '**UP**', it recycle from "88° E" & "88%RH".

Press '**DOWN**' will recycle also.

2) test RH and temp

Press '**MODE',** all clear except RH and the ambient temp. It shows the ambient RH and ambient temperature.

3) quit self-test mode

Press '**MODE**', will quit **Self-test Mode** and enter **Operating Mode**.

You can quit **Self-test Mode** and enter **Operating Mode** at any time if you press "**POWER**"