Thank you very much for purchasing our product. Before using your unit, please read this manual carefully and keep it for future reference.
• This manual gives detailed description of the precautions that should be brought to your attention during operation.

• In order to ensure correct service of the wired controller please read this manual carefully before using the unit.

• For convenience of future reference, keep this manual after reading it.
## CONTENTS

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1. SAFETY PRECAUTIONS

The following contents are stated on the product and the operation manual, including usage, precautions against personal harm and property loss, and the methods of using the product correctly and safely. After fully understanding the following contents (identifiers and icons), read the text body and observe the following rules.

<table>
<thead>
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<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Means improper handling may lead to personal death or severe injury.</td>
</tr>
<tr>
<td>Caution</td>
<td>Means improper handling may lead to personal injury or property loss.</td>
</tr>
</tbody>
</table>

[Note]: 1. “Harm” means injury, burn and electric shock which need long-term treatment but need no hospitalization

* Icon description *

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Forbidden Icon]</td>
<td>It indicates forbidding. The forbidden subject-matter is indicated in the icon or by images or characters aside.</td>
</tr>
<tr>
<td>![Compulsory Icon]</td>
<td>It indicates compulsory implementation. The compulsory subject-matter is indicated in the icon or by images or characters aside.</td>
</tr>
</tbody>
</table>
### 2. SUMMARY

**Usage condition:**
1. Power supply: 5V DC.
2. Operation temperature: -15? to +43?.
3. Operation humidity: 40%-90%, RH.
4. Safety comply to:
   - GB4706.32-2004
   - GBT7725-2004

### 3. FUNCTION SUMMARY

**Main function:**
1. Connecting to indoor unit by A, B, C, D, E terminals.
2. Button setting action mode.
3. LCD display.
4. Timer for rest time.
4. name and function of indicators on the controller

① Operation mode indication:
When press "MODE" button, the following mode can be selected in circle. Auto →Cool →Dry→Heat→Fan only→Auto. For cooling only model, heat mode is skipped.

② Timer:
When adjust setting on time or only on time is set, the "ON" is lighted.

When adjust setting off time or only off time is set, the "OFF" is lighted. If on and off timer are both set, the "ON" and "OFF" are both lighted.

③ Follow me function:
There is a temperature sensor inside the wire controller, after setting temperature, it will compare the two temperatures, and the space of wire controller will be
the same as setting temperature. It is available under cooling, heating, auto mode.

④ ON/OFF indication:
When it is on, the icon display, otherwise it is extinguished.

⑤ Fan speed indication:
There are four fan modes: low, middle, high, auto. For some models, no middle fan then the middle fan is seen as high speed.

⑥ Lock:
When the "LOCK" button is pressed, the icon appear and other buttons is unable, press again, the icon disappear.

⑦ Temperature display zone:
Generally it displays setting temperature, it can be adjusted by press temperature button ▲ and ▼. But in fan mode, no display here.

5. INSTALLATION METHOD
When a wire controller is needed, a small 5-way terminal should be added, fix an infrared emitter with gumwater near the receiver on the switch board. Connect its anode and cathode to A and B, and +5V, GND, RUN to C, D, E on the switch board.

6. NAME AND OPERATION OF THE BUTTON ON THE WIRE CONTROLLER
① Mode button:
When press this button, the operation mode change as the following sequence:

```
AUTO ➔ COOL ➔ DRY ➔ HEAT ➔ FAN
```

Remark: For the cooling only model, the heating mode is skipped.

② Timer on button:
Press this button, timer on function is active. Then every press, the time increase 0.5h, after 10h, 1h increase after each press. If cancel this function, just set it to "0.0".

③ Timer off button:
Press this button, timer off function is active. Then every press, the time increase 0.5h, after 10h, 1h increase after each press. If cancel this function, just set it to "0.0".

④ Economy operation button:
Press this button, the indoor unit operates in economy mode, press again, exit this mode (it may be ineffective for some models)

⑤ Follow me button:
When under cool, heat and auto mode, press this button, follow me function is active. Press again, this function is ineffective.

⑥ Turbo button:
If press this button in cooling mode, the fan speed will increase (available to some model with powerful function). If press this button in heatmode, electrical heater function become ineffective.

⑦ Reset button (hidden):
Use a 1mm stick to press in the little hole, then the current setting is canceled. The wire controller enter into original state.

⑧ ON/OFF button:
When in off state, press this button, the indicator is on, the wire controller enter into on state, and send setting information to in door Pcb. When in on state, press this button, the indicator is off, and send instruction. If timer on or timer off has been set, it cancel this setting then send instruction to stop the machine.

⑨ Fan speed button:
Press this button consecutively, the fan speed will circle as follow:
AUTOMATIC OPERATION

Connect to power, indoor operation lamp flash.
1. Press "MODE" button, select "AUTO";
2. Press the button "▲" and "▼", set temperature you want, generally it is among 17℃~30℃;
3. Press "ON/OFF" button, operation lamp is on, the air-conditioner work in auto mode, indoor fan is auto, and can not be changed. Auto is displayed on LCD. Press ON/OFF button again to stop.
4. Economy operation is valid in auto mode.

COOL/HEAT/FAN MODE OPERATION

⑩ Adjust button ▲:
Set indoor temperature up. If press and hold on, it will increase at 1 degree per 0.5 second.
⑪ Adjust button ▼:
Set indoor temperature down. If press and hold on, it will decrease at 1 degree per 0.5 second.
⑫ Vertical swing button:
First press, start swing function; second press, stop swing. (Match to some model with swing function).
⑬ Direct/horizontal swing button:
Press the button every time, the louver swings 6 degrees. Press and hold for over 2 seconds, it turns into horizontal swing mode, press it again to quit.
⑭ Lock button(hidden):
When you push the LOCK button, all current settings are locked in and the wire controller does not accept any operation except that of the LOCK button. Use the lock mode when you want to prevent setting from being changed accidentally or play fully. Push the LOCK button again when you want to cancel the LOCK mode.

7. USING METHOD
1. Press "MODE" button, select "COOL", "HEAT" or "FAN ONLY" mode.
2. Press temperature adjust button to select setting temp.
3. Press "FAN SPEED" button to select high/mid/low/auto.
4. Press "ON/OFF" button, indoor unit operation lamp on, it works in dry mode. Press "ON/OFF" button again, it stops to work.

**DRY OPERATION**

1. Press " MODE " button, select " DRY " mode.
2. Press temperature adjust button to select setting temp.
3. Press " ON/OFF " button, indoor unit operation lamp on, it works in dry mode. Press ON/OFF button again, it stops to work.
4. In dry mode, economy operation and fan speed are ineffective.

**TIMER SETTING**

**Timer on only:**
1. Press " TIME ON " button, it display "SET" on LCD, and display " H " and "ON", it is waiting for timer on setting.
2. Press " timer " on button repeatedly to adjust time setting.
3. If press this button and hold on, the time will increase at 0.5h, after 10h, it increase at 1h.
4. After setting 0.5 second, the wire controller send timer on information, it is finished.

**Timer off only:**
1. Press "TIME OFF " button, it display "SET" on LCD, and display " H " and ON, it is waiting for timer on setting.
2. Press "TIME OFF" button repeatedly to adjust time setting.
3. If press this button and hold on, the time will increase at 0.5h, after 10h, it increase at 1h.
4. After setting 0.5 second, the wire controller send timer off information, it is finished.

**TIMER ON AND TIMER OFF BOTH**
1. Set timer on time as the corresponding step 1 and 2.
2. Set timer off time as the corresponding step 1 and 2.
3. Timer off time must be longer than timer on time.
4. 0.5 second after setting, the wire controller send information. the setting is finished.

**CHANGE TIMER**

If there is a need of changing timer time, press corresponding button to revise it. If conceal timer, change timer time to 0.0.

---

**NOTE**

The timer time is relative time, that is delay after setting time (i.e.: setting time is 8:05 A.M). So when timer is set, the standard time can not be adjusted.

---

**8. TECHNICAL INDICATION AND REQUIREMENT**

1. EMI and EMC comply to CE,
2. Electrical safety comply to: GB4706.32-2004, GB/T7725-2004
Version: QS01X-002BW

202000100350
Thank you very much for purchasing our product.
Before using your unit, please read this manual carefully and keep it for future reference.
• This manual provides a detailed description of the precautions that should be brought to your attention during operation.

• In order to ensure correct service of the wired controller please read this manual carefully before using the unit.

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10. TABLE OF PROTECTION STATES / FAULTS ............................................................... 12
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[Note]: 1. “Harm” means possible injury, burn and/or electric shock  

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</tr>
</tbody>
</table>
Warning

Only suitably authorised and trained professionals should install the unit. Improper installation performed by the user without permission may cause fire, electric shock, personal injury or water leak.

Forbid

Do not spray flammable aerosols onto the wired controller directly. Otherwise, damage or fire may occur.

Do not operate with wet hands or use water around the wired controller. Otherwise, electric shock may occur.

2. SUMMARY

Usage condition:
1. Power supply: 5V DC.
2. Operational temperature limits:
   -15°C (-5°F) ~ +43°C (+109°F).
3. Operational humidity limit: 40%-90% RH.

3. FUNCTION SUMMARY

Main function:
1. Connected to indoor unit by +5V, E, E, Y, X terminals;
2. Button setting action mode.
3. LCD display.
4. Up to a total of eight (8) programs for each day of the week.
### 4. DISPLAY NAME AND FUNCTION ON PROGRAMMABLE CONTROLLER

<table>
<thead>
<tr>
<th>Number</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Operation mode</td>
</tr>
<tr>
<td>2</td>
<td>Fan speed</td>
</tr>
<tr>
<td>3</td>
<td>Error</td>
</tr>
<tr>
<td>4</td>
<td>Temperature</td>
</tr>
<tr>
<td>5</td>
<td>Timer on/off</td>
</tr>
<tr>
<td>6</td>
<td>Date</td>
</tr>
<tr>
<td>7</td>
<td>Time</td>
</tr>
<tr>
<td>8</td>
<td>Period</td>
</tr>
<tr>
<td>9</td>
<td>Lock</td>
</tr>
<tr>
<td>10</td>
<td>Day of Week</td>
</tr>
</tbody>
</table>

#### Operational mode indication:
By pressing "MODE" then either "ADD" or "REDUCE", the mode of operation can be changed/cycled:
- Cool => Heat => Off.

#### Fan speed indication:
There are four fan modes: low, middle, high and auto. On some models, no middle fan speed is available, in this case, the middle fan speed is seen as high speed.

#### Fault indication.

#### Temperature indication.

#### Programmable Controller switch indication.

#### Date indication.

#### Time indication.

#### Period indication.

#### Lock indication.

#### Day of Week indication.
6. BUTTON NAME AND OPERATION OF THE PROGRAMMABLE CONTROLLER

① Mode button:
By pressing "MODE" then either "ADD" or "REDUCE", the mode of operation can be changed/cycled:
   Cool => Heat => Off.
To confirm this selection, press "CONFIRM".

② Fan speed button: press this button and "ADD" or "REDUCE" to select High, Middle, Low or Auto fan speed. To confirm this selection, press "CONFIRM".

③ Edit button: By pressing this button, you can setup Days of the Week, Date and Period.
④ Date button: In the interim or normal display mode, press the button, and then enter the date, the sequence is year--month--day of the week. Set the date, and press the Confirm button after each entry. Ensure the correct setting of the date, (1 - 31). Pressing "CANCEL" will return you to the previous parameter changes.

⑤ Timer on/off button: Pressing this button, will turn off the programmable function.
⑥ Reset button: Pressing this button, will light all of the LCD segments for 2 seconds to signal a reset. After resetting, the LCD will turn off for 1 second. After this, the system will return to its normal display state and you can carry out the initial setup.

⑦ Lock button: Press this button to lock and/or unlock the controller. Resetting power to the unit or restarting the unit after a power failure will not unlock the controller.

⑧ Cancel button: Used to exit without saving a change/setting, or to cancel the lock.
⑨ Query button: Press “QUERY” to select temperature values, press "CANCEL" to go back. Press “CONFIRM” to set time parameters, press “ADD ” or "REDUCE" to select days from "Sunday" to "Saturday", press “CONFIRM” to save. Next select “1”～“8” for the time section, beginning from the first time section. Set mode, fan speed start and stop times, until all 8 time selections are completed. Press “CONFIRM” to save, then press "CANCEL" to finish.
⑩ Reduce button: Used to reduce settings or to move left or up to other settings.
⑪ Add button: Similar to reduce used to increase settings, or moving right or down to other settings.
⑫ Confirm button: Used to confirm a selection.
⑬ Time button: Press this button, and press "ADD" or "REDUCE" to adjust the hours value, press "CONFIRM" to then
adjust the minutes. Press "ADD" or "REDUCE" to adjust the minutes, press "CONFIRM" to save and go back.

7. CONTROLLER SETUP

SET TIME

SET DATE

NOTE

Press the "CANCEL" button to go back to the previous step, or the normal display screen.
**SET MODE**

- Press the "CANCEL" button to go back to the previous step, or the normal display screen.

**NOTE**

- Press the "CANCEL" button to go back to the previous step, or the normal display screen.

**SET FAN SPEED**

- *Unit must be on to set fan speed*

  - **FAN**
  - **ADD**
  - **REDUCE**
  - **CONFIRM**

- Press the "CANCEL" button to save and exit, or the normal display screen.

**NOTE**

- Press the "CANCEL" button to save and exit, or the normal display screen.
**QUERY PLAN**

- QUERY
  - ADD or REDUCE select day of the week
  - CONFIRM
  - ADD or REDUCE select period
  - CONFIRM
  - ADD or REDUCE display various parameters of the selected period and go back to the normal display screen
  - CONFIRM

**SET PLAN**

- EDIT
  - ADD or REDUCE select day of the week
  - CONFIRM
  - ADD or REDUCE * select the start hour of the first period
  - CONFIRM
  - ADD or REDUCE select the start minute of the first period
  - CONFIRM
  - ADD or REDUCE select the end hour of the first period
  - CONFIRM
  - ADD or REDUCE select the end minute of the first period
  - CONFIRM

---

**NOTE**

- Press the "CANCEL" button to go back to the previous step, or the normal display screen.

continued on next page
from previous page

CONFIRM

ADD or REDUCE select mode

CONFIRM

ADD or REDUCE select fan speed

CONFIRM

ADD or REDUCE select temperature

CONFIRM

setting of the first period is done

ADD or REDUCE

Set the parameters of the next period from "*=>" in the 'select start hour' section above, until all of the eight periods of the same day are complete.

Press the "CONFIRM" button for 3 to 5 seconds to return to the 'select day of the week' step directly.

NOTE

Press the "CANCEL" button to go back to the previous step, or the normal display screen.
If selecting "AUTO" in the fan mode in some time periods, the 'auto' fan fan speed will not be displayed. However, the fan will operate in "AUTO" mode but the controller will display "CURRENTLY".

8. TECHNICAL INDICATION AND REQUIREMENT

EMI and EMC comply to CE

9. TABLE OF ALARM STATES / FAULTS

<table>
<thead>
<tr>
<th>Alarm states</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF</td>
<td>Other defined faults</td>
</tr>
<tr>
<td>EE</td>
<td>Water level detection fault</td>
</tr>
<tr>
<td>ED</td>
<td>Outdoor unit protection</td>
</tr>
<tr>
<td>EA</td>
<td>Compressor overcurrent (4 times)</td>
</tr>
<tr>
<td>E8</td>
<td>Supply air fan speed out of scale</td>
</tr>
<tr>
<td>E7</td>
<td>EEPROM error</td>
</tr>
<tr>
<td>E6</td>
<td>Zero-crossing detection error</td>
</tr>
<tr>
<td>E8</td>
<td>Air discharge temperature sensor fault T3, T4 or digital compressor</td>
</tr>
<tr>
<td>E5</td>
<td>T2B Sensor fault</td>
</tr>
<tr>
<td>E4</td>
<td>T2A Sensor fault</td>
</tr>
<tr>
<td>E2</td>
<td>T1 Sensor fault</td>
</tr>
<tr>
<td>E1</td>
<td>Communication fault</td>
</tr>
<tr>
<td>E0</td>
<td>Phase sequence error or default</td>
</tr>
<tr>
<td>F1</td>
<td>Programmable controller sensor fault</td>
</tr>
</tbody>
</table>
10. TABLE OF PROTECTION STATES / FAULTS

<table>
<thead>
<tr>
<th>Protection states</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF</td>
<td>Other protection</td>
</tr>
<tr>
<td>P8</td>
<td>Compressor overcurrent</td>
</tr>
<tr>
<td>P7</td>
<td>Power supply over-under voltage protection</td>
</tr>
<tr>
<td>P6</td>
<td>Low pressure protection</td>
</tr>
<tr>
<td>P5</td>
<td>High pressure protection</td>
</tr>
<tr>
<td>P4</td>
<td>Supply air temperature protection</td>
</tr>
<tr>
<td>P3</td>
<td>Compressor temperature protection</td>
</tr>
<tr>
<td>P2</td>
<td>Condensing Unit high temperature protection</td>
</tr>
<tr>
<td>P1</td>
<td>Anti-cool supply air or defrost protection</td>
</tr>
<tr>
<td>P0</td>
<td>Evaporator temperature protection</td>
</tr>
</tbody>
</table>