

# INSTALLATION & OWNER'S MANUAL

## *Wire Controller*

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 wire controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.


### CONTENTS

1. Safety precautions.....	1
2. Installation accessory .....	3
3. Installation method.....	4
4. Wiring diagram for wiring wire controller with air conditioner.....	6
5. Specification.....	7
6. General function .....	7
7. Name and operation of the buttons on the wire controller .....	8
8. Indicators and functions.....	11
9. Operation instructions.....	13

## 1. Safety precautions

- Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.


 WARNING	Means improper handling may lead to personal death or severe injury.
 CAUTION	Means improper handling may lead to personal injury or property loss.

	----- WARNING -----
<p>Please entrust the distributor or professionals to install the unit. Installation by other persons may lead to imperfect installation, electric shock or fire.</p> <p>Adhere to this installation manual.</p> <p>Improper installation may lead to electric shock or fire.</p> <p>Reinstallation must be performed by professionals.</p> <p>Improper installation may lead to electric shock or fire.</p>	

1

## 1. Safety precaution

Do not uninstall the unit randomly.  
Random uninstalling may lead to abnormal operation, heating or fire of the air conditioner.

	NOTE
<p>Do not install the unit in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the wire controller, fire may occur.</p> <p>The wiring should adapt to the wire controller current.</p> <p>Otherwise, electric leakage or heating may occur and result in fire.</p> <p>The specified cables shall be applied in the wiring. No external force may be applied to the terminal.</p> <p>Otherwise, wire cut and heating may occur and result in fire.</p>	

2

## 2. Installation accessory

### Select the installation location

Don't install at the place where contents with heavy oil, vapor or sulfured gas, otherwise, this product would be deformed that would lead to system malfunction.

### Preparation before installation

1. Please confirm that all the following parts you have been supply.

No.	Name	Qty.	Remark
1	Wire controller	1	
2	Cruciform slot screw M4×25	2	This accessory is used when install the wire control inside the electric cabinet
3	Plastic bolt	2	
4	Installation and owner's manual	1	

2. Please filed install the following accessory.

No.	Name	Qty.	Remark
1	Electric cabinet	1	Universal electric cabinet's specification. Pre-embed it into wall.
2	Phillips screwdriver	1	For install Cruciform slot screw.
3	Slotted head screwdriver	1	For unscrew the bottom cover of wire controller.

### Precaution of install the wire control

1. This manual provides the installation method of wire controller. Please refer to the wiring diagram of this installation manual to wire the wire controller with unit.
2. The wire controller working in low voltage loop circuit. Forbid to directly contact the cable of 220V commercial electricity or of 380V high voltage, and don't wire this kind of wire in the said loop.
3. The Shielded wire of the wire controller must be grounded reliable.
4. Upon finish the wire controller connection, do not employed tramegger to detect the insulation.

3

## 3. Installation method

### Installation diagram

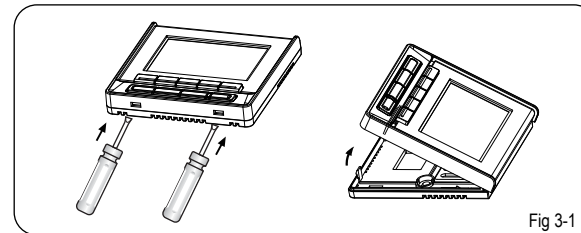


Fig 3-1

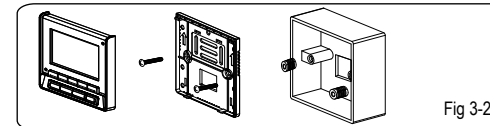


Fig 3-2

1. Take off the screws in the bottom cover of centralized controller by slotted head screw driver. (See Fig 3-1)
2. Adjust the length of two plastic bolts base on the length of through out from standard electric cabinet to the wall. Confirm the two bolts fixing in the cabinet are in the same length and vertical to the wall surface.
3. Fix the bottom cover to the electric cabinet by the accessory slotted head screws. Confirm the bottom cover is parallel to wall surface. And then reinstall the bottom cover to centralized controller. (See fig 3-2)

4

### 3. Installation method



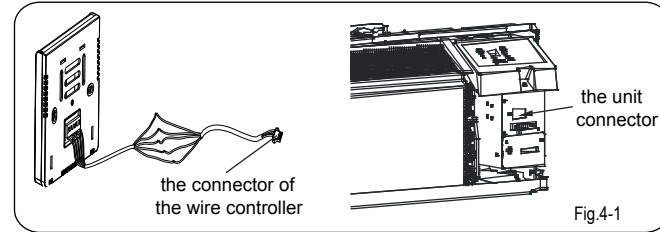
#### NOTE

Over tighten the screw would cause rear cover deformed and LCD damage. When installation, please maintain the screws and wire controller at the same height level without deformed. When installation, please reserve a certain length of wire controller connective cable for future maintenance to take off the wire controller.

5

### 4. Wiring diagram for wiring wire controller with air conditioner

1. Wiring diagram of wire controller connects with unit



Reset the connector of the wire controller into the unit connector.(see Fig.4-1)

NOTE:Cut off the five-color connecting wire at the middle of it and connect the same type five-color connecting wire(not provided)with it when the five-color connecting wire of wire controller is not long enough.Make sure that the same color wire connect with each other properly.The connectors should be insulated from each other in order to the different connecting wires do not touch each other,or there will be a short circuit.

6

### 5. Specification

Input voltage	DC 5V
Ambient temperature	-5~43℃
Ambient humidity	RH40%~RH90%

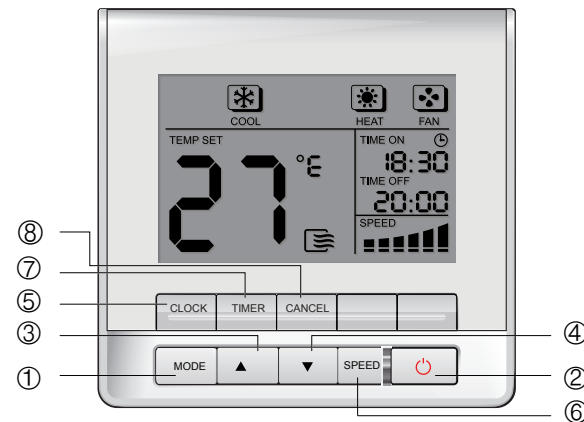
### 6. General function

**Main functions of this wire controller as follows:**

- Set operation mode via buttons control.
- Provided with LCD display function.

7

### 7. Name and operation of the button on the wire controller



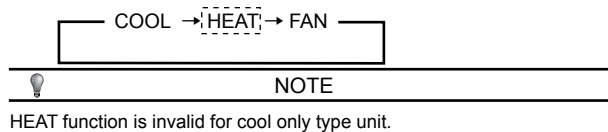
- ① MODE Select Button
- ② ON/OFF Button
- ③ Adjust Button ▲
- ④ Adjust Button ▼
- ⑤ Clock Button (on some models)
- ⑥ FAN SPEED Button (on some models)
- ⑦ TIMER Button (on some models)
- ⑧ CANCEL Button (on some models)

8

## 7. Name and operation of the button on the wire controller

### ① MODE Select Button:

Each time you push the button, a mode is selected in a sequence that goes from COOL、HEAT and FAN as the following figure indicates:



### ② 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.

### ③ Adjust Button ▲:

Press this key to increase the indoor temperature settings, 1 degree to be increased for every once press to 30°C/86°F.

### ④ Adjust Button ▼:

Press this key to decrease the indoor temperature settings, 1 degree to be decreased for every once press to 17°C/62°F.

NOTE: Press and hold ▲and▼ buttons together for 3 seconds will alternate the temperature display between the °C & °F scale.

9

## 7. Name and operation of the button on the wire controller

### ⑤ Clock Button:(on some models)

Normally, LCD displays the current time of the setting clock (however, LCD would display 12:00 when the first time power to the wire controller or reset the wire controller). Press this key lasting for 3 seconds, the clock will flashing at the frequency of 0.5 Sec. by using ▲ and ▼ to adjust the time, 1 minute to be increased/decreased for every once press the ▲/▼ . Long pressing the ▲/▼ , it will increase/decrease once 10 minutes/0.2 seconds. Release the key when finish the clock setting, the time will stop flashing automatically.

### ⑥ FAN SPEED Button:

Press this button consecutively, the fan speed will circle as follow:



### ⑦ TIMER Button:(on some models)

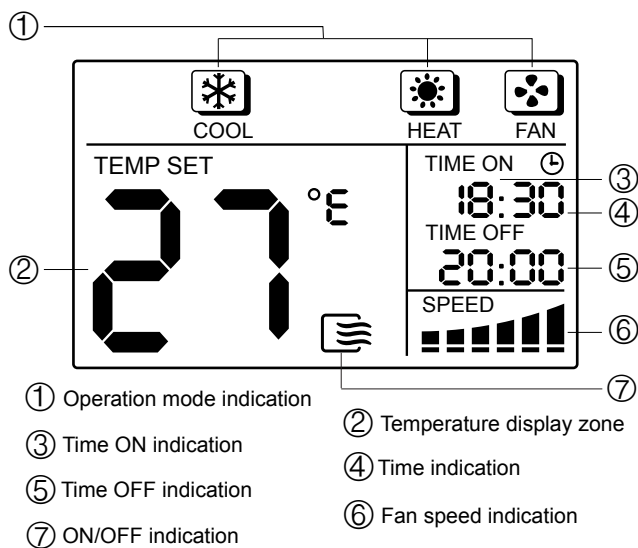
Press this button, the Timing will turn on. Set Timing ON time by ▲ and ▼ . The clock will increase and decrease once every 10 minutes; long pressing the keys it will increase/decrease once 10 minutes/0.2 seconds.

### ⑧ CANCEL Button:(on some models)

Push this button to cancel the TIMER settings.

10

## 8. Indicators and functions



NOTE: Time ON , Time OFF and Time indications are on some models.

11

## 8. Indicators and functions

### ① Operation mode indication:

Press MODE to display current running mode. COOL, HEAT and FAN can be selected. (HEAT function is invalid for cool only type unit.)

### ② Temperature display zone:

Display the set temperature. Adjust temperature via ▲ and ▼ . No display in this area if the unit is on FAN mode.

### ③ Time ON indication:

During setting the Timing ON or after set the Timing ON, the LCD would display "TIME ON".

### ④ Time indication:

Normally, LCD displays the current time of the setting clock. When press this Button last for 3 sec. the clock will flash at the frequency of 0.5 sec. By using ▲ and ▼ to set the minute. Release the button when finish the clock setting, the time will stop flashing automatically, which means time setting successfully.

### ⑤ Time OFF indication:

During setting the Timing OFF or after set the Timing OFF, the LCD would display "TIME OFF".

### ⑥ Fan speed indication:

Press SPEED to display the current wind speed. LOW, MED and HIGH can be elected. The default state is high fan speed for the unit without medium fan speed.

12

## 9. Operation instructions

### 9.1 COOL/HEAT/FAN operation

1. Press MODE to select COOL, HEAT or FAN.
2. Adjust temp via ▲ and ▼ . Generally the range is 21°C~28°C.
3. Press FAN SPEED to select AUTO, LOW, MED or HIGH.
4. Press ON/OFF and running indicator light on indoor unit is lightened. Air conditioner will work on the set mode. Stop operation via ON/OFF.



#### NOTE

The FAN mode cannot be used to control the temperature. While in this mode, only steps 1、3 and 4 may be performed.

13

## 9. Operation instructions

### 9.2 Timing set

TIMER button is for set TIME ON /TIME OFF these two types of timing. Timing ON time and CLOCK are display at the same displayed zone. When the Timing ON has been set, the CLOCK displayed zone would show the Timing ON information. Press the CLOCK key to query the current time, which would last for 3 seconds and then recover to Timing ON information. During the setting the timing, press the CANCEL button to exit the timing set. For the first time press the TIMER button, the icon of "TIME ON" will display and the timing time will flashing at the 1Hz, while the "TIMER OFF" icon will not show and the timing off time would not flash (in the case of without timing off setting, the information will not show). Press the TIMING key again, the "TIME OFF" icon will show and the timing time will flashing at 1Hz; while the "TIME ON" icon will not show and the timing on time would not flash (in the case of without timing on setting, the information will not show). Button pressing base on this circulating logic.

#### 9.2-1 Set the Timing ON time only

In case originally provide with timing set in the system, please press the CANCEL button to cancel the current settings.

1. Press the TIMER button, the LCD in the wire controller will show "TIME ON", at the same time the time zone will display the last setting time, which flash at the frequency of 1Hz, the wire control enters to Timing ON status.
2. By using ▲ and ▼ to set the desired Timing ON time.
3. After 0.6 seconds of done the setting, the wire controller will deliver the Timing ON information, 3 seconds later, the Timing ON information will stop flashing. Timing ON has been set.

14

## 9. Operation instructions

### 9.2-2 Set Timing ON and OFF

In case originally provide with timing set in the system, please press the CANCEL button to cancel the current settings.

1. Press the TIMER button, the LCD in the wire controller will show "TIME ON", at the same time the time zone will display the last setting time, which flash at the frequency of 1Hz, the wire control enters to Timing ON status.
2. By using ▲ and ▼ to set the desired Timing ON time.
3. Press the TIMER button again, the LCD in the wire controller will show "TIME OFF", at the same time the time zone will display the last setting time, which flash at the frequency of 1Hz, the wire control enters to Timing OFF status.
4. By using ▲ and ▼ to set the desired Timing OFF time.
5. After 0.6 seconds of done the setting, the wire controller will deliver the Timing OFF information, 3 seconds later, the Timing OFF information will stop flashing. Timing OFF has been set.

### 9.2-3 Modify the timing settings

For modify the TIMING OFF/TIMING ON, please press the corresponding timing button to reset it.



#### NOTE

The set time is the relative time that is relative to the standard time when setting the wire controller, which would delay for a while.

15

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