

## Thermostat Panel

### User Manual



## Description

JTB-3005-03 is a Z-Wave enabled room thermostat support control cool/heat/fan climate in Z-Wave system. The desired temperature in the room can be set locally using the button on the front of the unit. It works in the same way as a normal room thermostat with hard wired to the heating source; meanwhile control is achieved using Z-Wave wireless signals also. This enables you to control heating times and schedule zone heating.

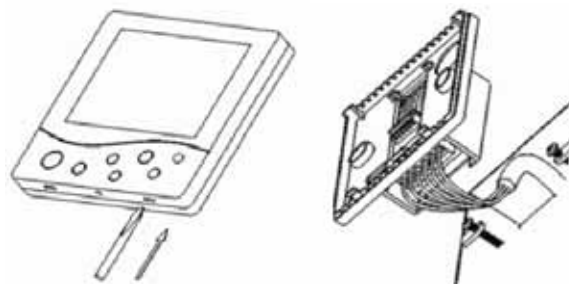
This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

## Feature

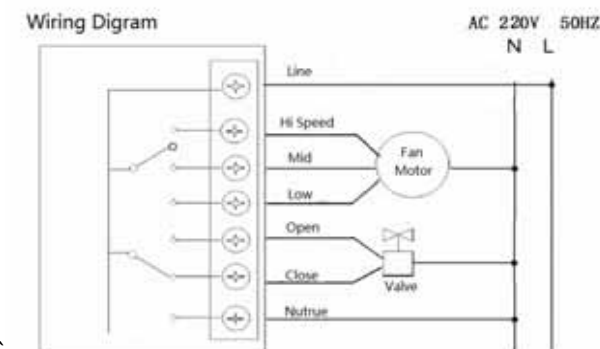
- English/Chinese LCD display with backlight
- Room/Keeping temperature display
- Fan speed High/Medium/Low/Auto
- Relay control output
- Auto resume after power up
- Thermostat Cool/Hot/Fan mode
- 2-wire/3-wire valve control

## Installation

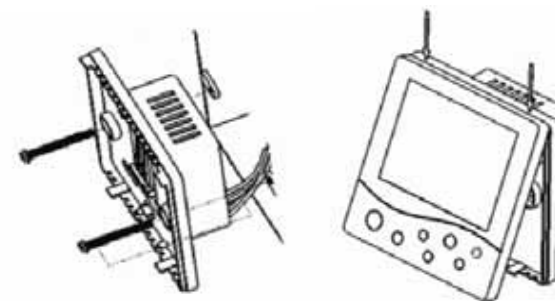
1. Open back cover: with a 3.5mm wide screwdriver along the slope of the extension to the slot in the 4mm, a little hard to pry down to open the cover as follow figure.
2. Connect load to the terminal on power unit as following diagram. For 2 wire electric valve, connect to terminal "open" and "nature"



3. Place power unit inside wall switch box and install panel on it with the screw ship out together as following figure



4. Connect power unit cable to panel socket on the middle of panel back side. Recommend Add thermostat panel into Z-Wave system before next stop.
5. Put the panel on the cover in around 30 degrees angle, and put down panel to stuck front with back cover.

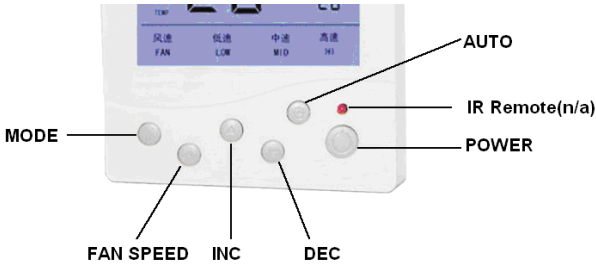


## CAUTION

1. SHUT DOWN POWER BEFORE INSTALLTION.
2. TIGHTEN TERMINAL and CONNECT FOLLOWING THE WIRING DIAGRAM
3. INPUT POWER AND LOAD SHOULD ACCORDING TO SPECIFICATION

Operation

- 1. Turn On/Off: Press Power button to toggle On/Off thermostat.
- 2. Button define
  - a) Mode: Press change mode as Cool->Heat->Fan ->Cool sequence
  - b) Speed: Press change fan speed as Low->Mid->Hi->Off->Low. sequence
- 3. AUTO: Press to start auto mode. Press any other button re-configuration mode.



Advance Operation

- 1. Press POWER button turn on thermostat.
- 2. Press and hold MODE button for 5 seconds entry advance configuration state.
- 3. Press SPEED button entry Temperature sensor calibrate -> RS-485 address set -> Low Temperature protect -> Min Set-point -> Max. Set-point -> Children lock menu sequence.
- 4. Temperature sensor calibrate: LCD display 0 Ld, press INC/DEC calibrate sensor detect value. (-5°C~+5°C, default=0°C) .LCD display room temperature with calibration.
- 5. RS-485 address: LCD display 1 Ad, press INC/DEC

modify address, (default=1) .

- 6. Auxiliary protect: press INC/DEC toggle protect on (LCD display on db) and off (LCD display oF db). Specify model available.
- 7. Max Setpoint: press INC/DEC modify (valid: 10°C~40 °C, default= 40°C) .
- 8. Min Setpoint: press INC/DEC modify (valid: 10°C~40 °C, default= 10°C)
- 9. Children Lock: press INC/DEC toggle operation on panel enable (LCD display Op Sd) and disable(LCD display Lc Sd). Speed and Mode setting is not accept after disable children lock, only power on/off is available.
- 10. Exit advance configuration: press POWER button turn off to exit configuration state.

**Note:** RS-485 address should set 1 for properly working.

Z-Wave Network Setup

- 1. **Add to network:** Start master controller add device mode as instruction, press 3 time of PB button located on the back side of thermostat panel in 1.5 second, LED flash indicator inclusion processing until included or 60 second timeout no detect any master controller.
- 2. **Remove from network:** Start master controller remove device mode as instruction, press 3 time of PB button located on the back side of thermostat panel in 1.5 second, LED flash indicator exclusion processing until excluded or 5 second timeout no detect any master controller.
- 3. **Association:** The product supports 1 association group and associated 1 device only.
  - a) Association Group 1 is assigned to send thermostat lifeline status to associated devices,

including send the multilevel sensor report frame of room temperature, and thermostat mode, fan speed, thermostat state etc. Please note that, external thermostat status is refresh one minute after change by manual locally.

- 4. **Reset Factory Default:** Press and hold PB button located on the back side of thermostat panel for 10 seconds retrieve thermostat panel factory default. Please use this procedure only when the network primary controller is missing or otherwise inoperable.
- 5. **Energy Saving Mode and Comfort Mode:** control by Basic Set Off/On command, Energy saving mode will turn thermostat power off, Comfort Mode will resume last operation mode.

Z-Wave Configuration

Parameter Configuration:

- 1. Parameter: #1, Synchronization Cool and Heat temperature set-point.  
Size: 1 byte  
Value: 0 – no sync(default); 0xFF – sync.
- 2. Parameter: #2, RS-485 address, commnucation link to master MCU of product.  
Size: 1 byte  
Value: 0x01(default) ~ 0xFF.

Technical Parameter

|                      |                |
|----------------------|----------------|
| Power Supply         | 220V AC        |
| Standby consume      | <1W            |
| Valve Load           | 1A 220VAC max. |
| Temp. precious       | 1°C            |
| Temp. Sensor Range   | 0°C~60°C       |
| Temp. Setpoint Range | 10°C~40°C      |

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| RF frequency       | 868.4 MHz – Eurpon<br>908.4 MHz – US<br>921.4 MHz – Australia<br>869.2 MHz – Russia |
| RF Distance        | 30 meter – indoors<br>50 meter – field                                              |
| Operation Temp.    | -10°C~+50°C                                                                         |
| Operation Humility | ≤95%RH                                                                              |
| Size               | 86 x 86 x 40 mm                                                                     |
| In-wall box size   | 40 x 60 x 28 mm                                                                     |
| Standard           | GB14536.10                                                                          |

## Z-Wave Specification

### **Generic Deice Type =**

GENERIC\_TYPE\_THERMOSTAT

### **Specific Device Type =**

SPECIFIC\_TYPE\_THERMOSTAT\_GENERAL

### **Support Command Class =**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO,  
COMMAND\_CLASS\_VERSION,  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC,  
COMMAND\_CLASS\_POWERLEVEL,  
COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD,  
COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY,  
COMMAND\_CLASS\_ASSOCIATION,  
COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO,  
COMMAND\_CLASS\_CONFIGURATION,  
COMMAND\_CLASS\_SENSOR\_MULTILEVEL,  
COMMAND\_CLASS\_THERMOSTAT\_MODE,  
COMMAND\_CLASS\_THERMOSTAT\_FAN\_MODE,  
COMMAND\_CLASS\_THERMOSTAT\_SETPOINT

Z-Wave Certification No: