

Zigbee Radiator Actuator



User Manua

Many thanks for your selection of our products and services, and also for your trust and support to us. To avoid damages to the product during installation, please read the manual carefully before installing.

Product Specifications
 Power: 2* AA alkaline batteries
 Working temperature: 0-50°C
 Display accuracy: 0.5°C
 Running program: Set per 1 week as acycle
 Probesensor: NTC(10k)1%
 Size(mm): 53*89.5mm
 Maximum route: 4.5mm
 Range of temperature display: 1-70°C
 Default range of temperature adjustment: 5-35°C
 Maximum current: 90mA
 Working environment temperature: -10-60°C
 Thread size: M30*1.5



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Displays

NO	Icon	
A	Auto Mode; Holiday mode; Boost mode; Open Window function	
B	Low battery; Children lock; Zigbee connection status; Auto mode period; Set temperature/Advanced option; Valve status	
C	Time setting interface: hour setting; minute setting	

Buttons

NO	keys	Represent
D	⋮	1.Short press to switch manual mode and auto mode 2.Long press to enter advanced settings 3.Confirm key
E	-	1.Decrease key 2.Long press 3s to lock/unlock keys
F	+	1.Increase Key 2.Long press 3 seconds to start the BOOST function: turn on the BOOST fast heating mode, short press any key during operation to exit this function and return to the previous working mode

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Installation and initial commissioning

After power on, the screen will show all for 3 seconds.

Time setting: when ⏱ flashing, then press ⋮ display ⏱ enter hour setting, press - or + to adjust value, press ⋮ again display ⏱ enter minute setting, press - or + to adjust value, press ⋮ again to set week, press - or + to adjust value, press ⋮ to confirm setting and remember time.
 Note: after the actuator completes its self-check, under normal working status, if need to modify time, long press ⋮ 3s access to advanced setting. And press + to choose ⏱, short press ⋮ enter time setting. the same as above method.

When display "Ad", press ⋮ Start system self-check, when display "1", this is the first step of system self-check. When Display "2", this is the second step for self-check, after finish self-check, if there is no fault prompt, it will enter the normal working state. If there is a fault prompt, please handle the fault first, otherwise it will not enter the normal working state.

Code	Meaning
E1	Motor fault
E2	Sensor fault
⏱	Flashing means low battery

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Special Function description

Holiday mode
 press ⋮ 3s access to advanced settings, short press + to choose holiday mode ⏱, then short press ⋮ enter temperature setting, again short press setting days setting, press + or - to adjust value. Under holiday mode, short press ⋮ to exit holiday mode.

Open window function
 1. The actuator turns off the window opening function by default, if you need to use it, you can turn it on in the advanced option 2 setting [reset disable when changing the battery]

Auto mode setting
 Long press ⋮ about 3s access to advanced setting, short press + switch to auto mode setting ⏱, short press ⋮ access to auto mode setting, short press ⋮ to choose which item you want. First set the auto mode to 5 means :5=5+2 days, 6 = 6+1 days, 7 = 7 days, after press ⋮ to access to hour or minute setting, short press again access to temperature setting, turn the rotation to adjust value. short press ⋮ choose: hour, minute, time period, and + press or - to adjust data, finished setting, about 10 seconds will automatic save and exist.

Period	Default period	Default temperature
1	6:00-8:00	20°C
2	8:00-11:30	15°C
3	11:30-12:30	15°C
4	12:30-17:30	15°C
5	17:30-22:00	20°C
6	22:00-6:00	15°C

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Advanced options

Press ⋮ about 3-5s to access to advanced settings, short press + until ⏱ flashing, press ⋮ to access to advanced options, press or adjust value, after finish setting every time, short press ⋮ to set next option, after finishing all, don't operate, after 10s it will automatically save and exist.

No	Item	Setting parameters	Default
1	Measuring temperature correction	-9-+9°C (Displayed as the corrected room temperature value)	-1°C
2	Open window function parameter: temperature and running time	1:display - - means disable open window function, press + key display 5°C means this function enable (temperature setting range: 5-25°C) 2:Running time:5-60min (after enable function, press ⋮ change setting)	- -
3	Automatic lock if no operation more than 10 minutes	0:Disable 1:Enable	0
4	Setting temperature minimum limit	1-15°C	5°C
5	Setting temperature maximum limit	16-70°C	35°C
6	BOOST mode running time	100s-900s, Steps of 100 seconds	300 Seconds

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7	View valve open status	0-99 99 mean valve open 100% 5 mean valve open 5%	1
8	Start/stop working temperature difference setting	0.5-1.5	0
9	Display mode	0:Upward display 1:Downward display	0
A	Control type of valve	0: PID 1:FLOAT 2:ON/OFF	0
B	Reset	Display 88, using - or + to change to 00, press ⋮ to reset. The screen will be fully displayed for 2 seconds.	
C	Valve Seal Type	0:Soft Seal 1:Hard Seal	1
D	Descaling function	0: Disable descaling function 1: Enable descaling function	1

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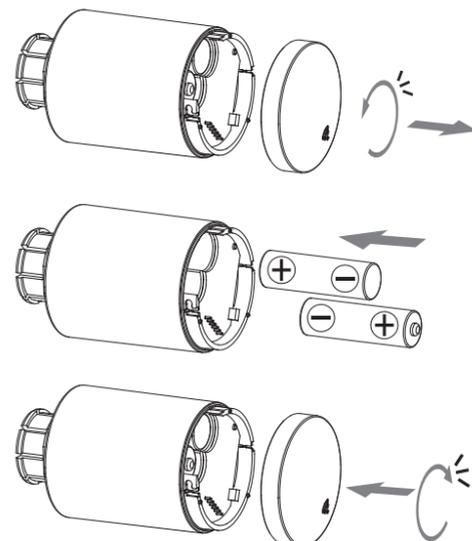
Installation

Step 1: Select the adapter. If your valve is M30*1.5mm, you can directly install it on the valve. If you have different valves, please determine your valve type according to the picture below, and choose the correct adapter from the package.
 Step 2: Install the adapter. If you don't need an adaptor, please ignore this step.



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Install battery



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ABOUT ZIGBEE

Preparation required for ZIGBEE Connection:

A 4G mobile phone and router, reconnect the router on the mobile phone WLAN interface, and record the WIFI password [need to be used when the thermostat is paired with the Wifi].
 Note: WiFi from router must be 2.4G, 4G WiFi from the other mobile phone hotspot also works, 5G router WiFi can't work.

1.Download the App and register your account

1.After the ZigBee gateway is configured, enter the gateway to add sub-devices, and wait for the actuator to be powered on and the system self-check is completed.

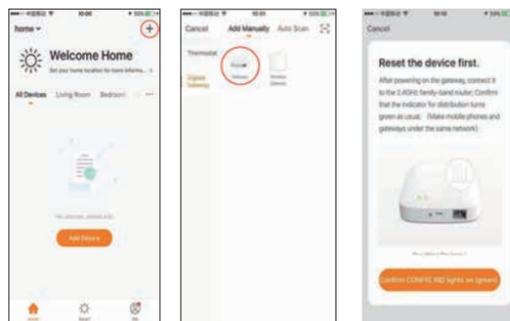


2.long press ⋮ enter to setting surface, short press + to choose icon, short press ⋮ to enter network connected mode, then long press ⋮, ⋮ flashing access network connected mode. Please refer to the gateway manual for Zigbee gateway configuration.

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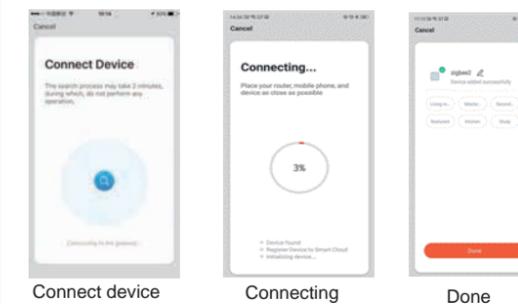
2. Wired gateway connections:

Note: Make sure of wired network connected by your smart phone WIFI and wired Zigbee gateway must in the same router. Press and hold gateway button for 10S, make sure the two indicators are always on. (More detail instructions refer to the gateway manual)



Click the in App Select the gateway Confirm CONFIG IND light on (green) the upper right corner

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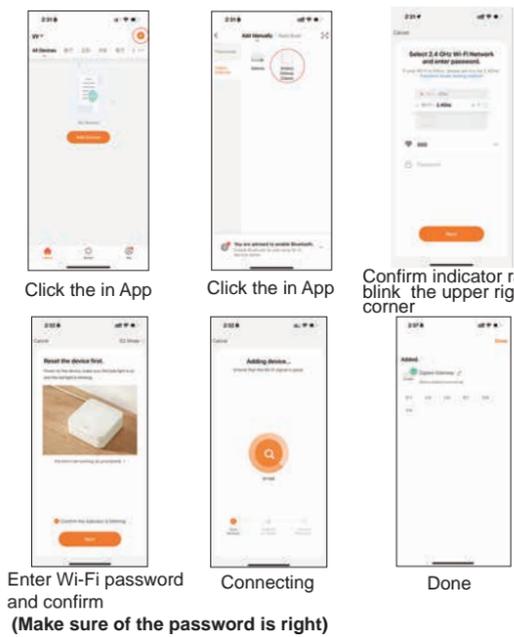


Connect device Connecting Done

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3. Wireless gateway connections:

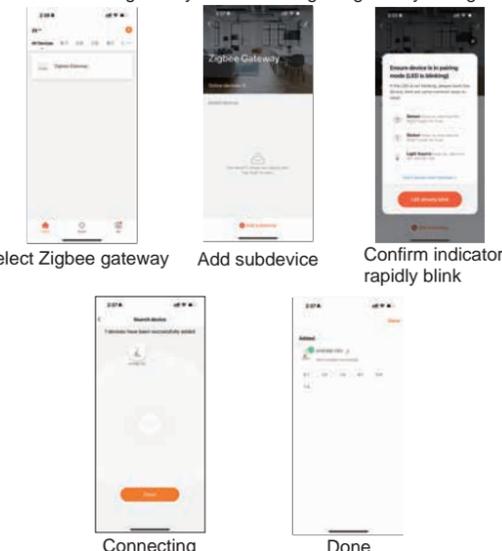
Note: Make sure of your smart phone and gateway are connected to the same wireless router. Press and hold wireless gateway button for 10S, make sure the two indicators are always on. (More detail instructions refer to the gateway manual)



Click the in App Click the in App Confirm indicator rapidly blink the upper right corner
 Enter Wi-Fi password and confirm (Make sure of the password is right) Connecting Done

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4. Zigbee TRV connections:
 long press ⋮ enter to setting surface, short press + to choose icon, short press ⋮ to enter network connected mode, then long press ⋮, ⋮ flashing access network connected mode. Please refer to the gateway manual for Zigbee gateway configuration.



Select Zigbee gateway Add subdevice Confirm indicator rapidly blink
 Connecting Done

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