



HY 312 Black Round Wi-Fi Digital Heating Thermostat User Manual

Search for " Smart Life" Download the Wifi App with the following icon.



*Turn on the thermostat, long press "⌚" for 3-5 seconds, the "OFF" and "Wi-Fi" will flashing in the same time, short press "⌘" for pairing thermostat with APP.
*The App advanced password is 123456

Product Specifications

- ☆ Power: 200-240Vac 50/60Hz
- ☆ Display accuracy: 0.5°C
- ☆ Probe sensor: NTC (10k)1%
- ☆ Contact capacity: 3A/250V(WW);16A/250V(WE)
- ☆ Working environment temperature: 0~90°C
- ☆ Range of temperature adjustment: 5~35°C
- ☆ Range of temperature display: 0~70°C
- ☆ Insulating condition: Normal environment
- ☆ Running program: Set per 1 week as a cycle
- ☆ Output: Switch relay
- ☆ Installation: Wall mounted or on battery seat
- ☆ Size(mm): 86*86*30

Before wiring and installing

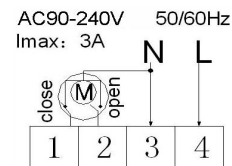
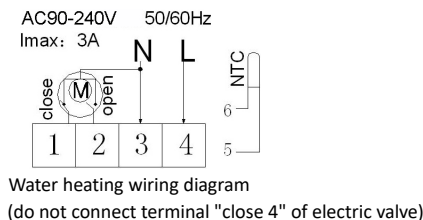
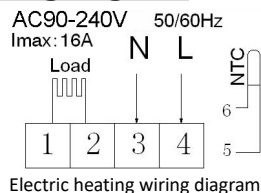
1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the produce is suitable for your application.
3. Installer must be a trained experienced service technician.
4. After installation is complete. Check and follow the operation sequence as provided

CAUTION

Electrical shock or equipment Damage Hazard. or short equipment circuitry.

Disconnect power supply before installation

Wiring Diagram



Water heating and gas wall-hung boiler heating, no contact wiring diagram, (disconnection when electric valve close)
Note: 3 & 4 connect with power, 5 & 6 connect with gas boiler, 1 & 2 connect with thermal actuator, please do not connect 1 & 2 to gas boiler, this may cause boiler board damaged.

Displays



Description of icon

- Auto mode; run preset program
- Temporary manual mode
- Manual mode
- Clock
- Holiday mode, Holiday days and temperature can be set to run in countdown mode
- Heating, icon disappears to stop heating
- External NTC sensor
- WIFI connection, flashing EZ distribution mode(see Wi-Fi pairing step4)
- Wifi status: Disconnection
- Child lock
- Cloud icon: flashing AP distribution network mode(see Wi-Fi pairing step5)

Operation key

NO	symbols	represent
A		Turn ON/OFF: Short press to turn on/ turn off
B		1 Short press to switch automatic mode and manual mode 2 Turn on thermostat, long press for 3-5 seconds to enter into programmable

		setting 3. Turn off thermostat, long press  for 3-5 seconds to enter into advanced setting
C		1 Confirm key: use it with  key 2 Only short press it to set time 3 Turn on thermostat, long press  for 3-5seconds, the “OFF” and “  x” will flashing in the same time, short press  to holiday mode.
B		1 Decrease key 2 Long press to lock /unlock
D		1 Increase key 2 Long press to inquire external sensor temperature 3 In the Auto model, press  or  enter to temporary manual mode

Programmable

5+2 (factory default),6+1 and 7 models 6 times period setting for user choose. In the advanced options choose model of you need, under power on state, long press  for 3-5 seconds enter into programming mode setting, then short press  choose: hour, minute, time period, and press  and  to adjust data, finished setting, about 10 seconds will automatic save and exist.

					
Wake up	Out door	Back home	Out door	Back home	Sleep
6: 00 20℃	8: 00 15℃	11: 30 15℃	13: 30 15℃	17: 00 15℃	22: 00 15℃

The optimum comfort temperature is 18℃-22℃.

Advanced options

Under turn off state, long press  for 3-5 seconds to access advanced setting.

From A1 to AE, short press  to choose the option, and adjust data by ,, short press  to switch next option. Remain about 5 seconds after finish setting will quit setting.

NO	Setting Options	Data Setting Function	Factory Default
A1	Measure Temperature Calibration	-9-+9℃	0.5℃ Accuracy Calibration
A2	Temperature control return difference setting	0.5-2.5℃	1℃
A3	Children lock setting	0:half lock 1:full lock	0:half lock

A4	Power with memory function	0:Power with memory function 1:Shutdown power after power off 2:Shutdown power after power on	0
A5	Backlight Sleep time	time 5-30 Sec	10 Sec
A6	Weekly programming selection	0: 5+2 1: 6+1 2: 7	0
A7	Setting temperature lowest limit	1-10℃	5℃
A8	Setting temperature highest Limit	20-70℃	35℃
A9	Limit value of low temperature for external sensor(anti-freeze protection)	1. 1-10℃ 2. Exceed 10℃, screen display 【--】 , Low temperature protection was cancelled.	5℃
AA	Limit value of high temperature for external sensor	1. 35℃-70℃ 2. Under 35℃, screen display 【--】 , high temperature protection was cancelled	45℃
AB	External sensors limit temperature control return difference	1-9℃	2℃
AC	Window ventilation function setting	Press  ,display 10℃,when temperature 10℃ turn on window ventilation function, stop heating mode, press  display -- , turn off Window ventilation	Disabled ---
AD	Window ventilation running time	10-20 mins	15mins
AE	Restore factory defaults	Long press  key ,Display A , press OK key whole show	
BN	Options of sensor control	N1:Built-in sensor (high temperature protection close) N2:External sensor (high temperature protection close) N3:Built-in sensor control temperature ,external sensor limit temperature (external sensor detect the	N1

		temperature is higher than highest temperature of external sensor, thermostat will disconnect relay, turn off load)	
BC	Descaling function	0: Close descaling function 1: Open descaling function (valve is continuously closed over 100 hours, it will be opened for 3 minutes automatically)	0

Return difference: Max-limit value of external sensor is 45°C for factory default (A6), value of external sensor control return difference (AB) is 2°C. When temperature rises to 45°C, the relay stops working and triggers a high temperature alarm. If temperature drops to 43°C, then the relay continues to work and the heating alarm will go off. (On that event the operation of heating resumes only when indoor temperature is lower than setting temperature i.e. heat demand)

Sensor fault display: Please ensure to have correct way of working for built-in and external sensor, if connect wrongly or sensor fault (breakdown), “E1” or “E2” will be displayed on the screen. Thermostat will stop heating until the fault is eliminated.

Warranty:

We offer operation warranty of 18 months, from date of sales to cover any issue due to quality and workmanship defect.



WIFI APP Download, Sign up and Pair, Router with thermostat

You will need a 4G mobile phone and wireless router. Connect the wireless router to the mobile phone and record the WIFI password [you will need it when the thermostat is paired with the Wifi].

Step 1 Download your app



Android users can search “Smart life” or “Smart RM” on Google Play, iPhone users can search “Smart life” or “Smart RM” in the App Store.

Step 2 Register your account

- After install APP, click “register” (Fig 2-1)
- Please read the Privacy Policy and press Agree to proceed to the next step. (Fig 2-2)
- Registration account name uses your available Email Or mobile phone number, and please select Region, then click “Continue” (Fig 2-3)
- You will receive a 6-digit verification code from your email or SMS, enter this on your phone (Fig 2-4)
- Please set the account password, Password must contain 6-20 letters and numbers. click “Done” (Fig 2-5)

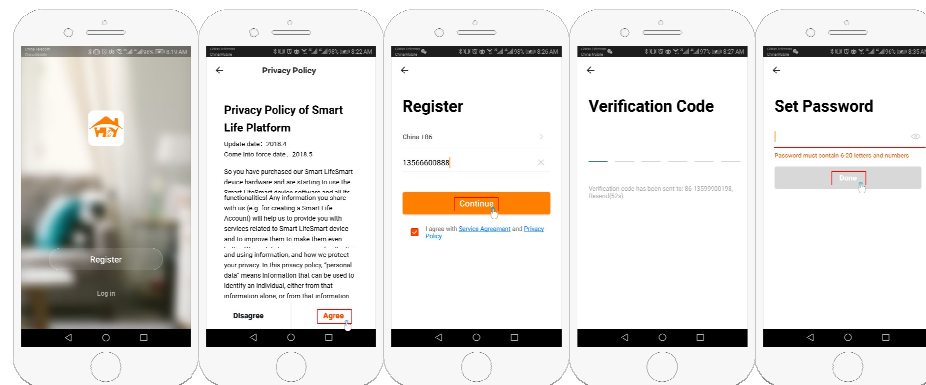


Fig 2-1

Fig 2-2

Fig 2-3

Fig 2-4

Fig 2-5

Step 3 Create family information (Fig 3-1)

1. Fill in the family name (Fig 3-2).
2. Select or add a room (Fig 3-2).
3. Set location (Fig 3-4).

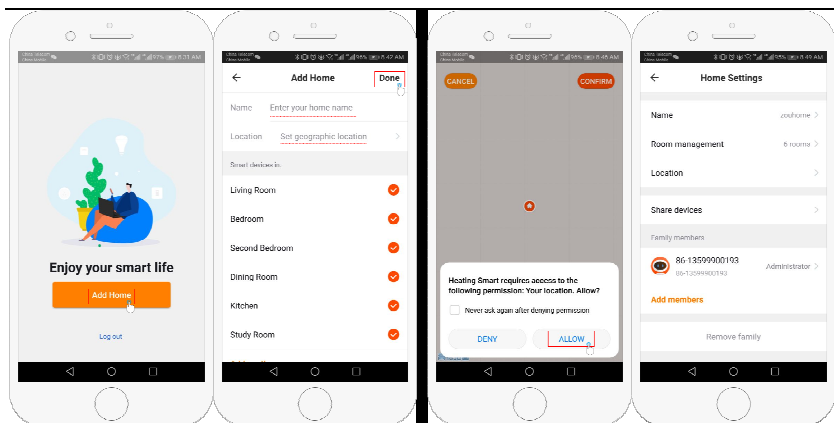


Fig 3-1

Fig 3-2

Fig 3-3

Fig 3-4

Step 4 Connect your Wi-Fi signal (EZ distribution mode)

In the power-on state, long press “⌚” for 3-5seconds, the “OFF” and “Wi-Fi x” will flashing in the same time, short press “⌘” to indicate the EZ distribution mode, the icon ⌘ flashes to indicate the AP distribution mode, the icon Wi-Fi x indicates that the phone has been disconnected with the device.

Press "Add Device" or "+" in the upper right corner to add the device (**Fig 4-1**) and select the device type "Thermostat" (**Fig 4-2**)

On your thermostat, Click Confirm  icon rapidly blink. then select your network and back to your app to enter the password of your wireless router (**fig 4-4**) and confirm. The app will connect automatically

(**Fig 4-5**) This may typically take up to 5~90 seconds to complete. This is Ez mode which provides fast network connection between your app and your device.

Your room name could be edited when the device is connected, and you can choose the corresponding room location. For example, bedroom, kitchen, living room, etc

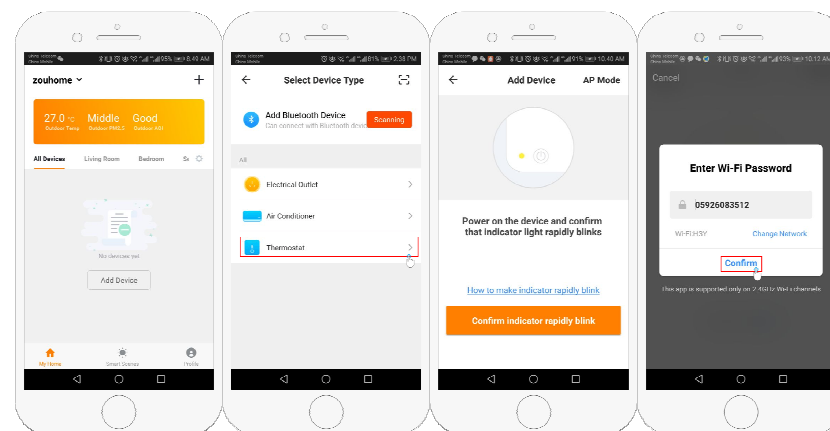


Fig 4-1

Fig 4-2

Fig 4-3

Fig 4-4

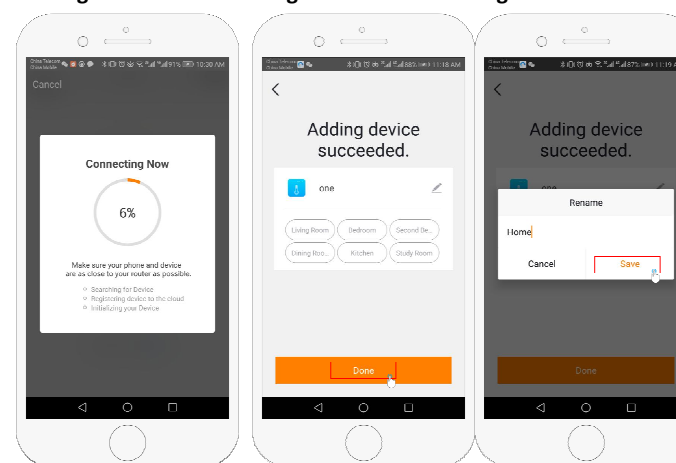


Fig 4-5

Fig 4-6

Fig 4-7

Step 5 AP distribution mode

If your router doesn't support it or your wifi signal is weak or you cannot connect by EZ mode, press the AP Mode on the upper right corner in (**Fig 5-1**) If you have connected your thermostat successfully, please ignore the app setting as blow On your thermostat.

Click Confirm  icon rapidly blink then select your network and back to your app to enter the password of your wireless router (**fig 4-4**) and confirm. The app will go into the page in (**Fig 5-2**)

Press Connect now to select the Wi-Fi signal Smart life-XXXX of your thermostat (**Fig 5-3**)

Go back to your app and click Connect now then the app will connect automatically (**Fig 4-5**)

This may typically take up to 5~90 seconds to complete.

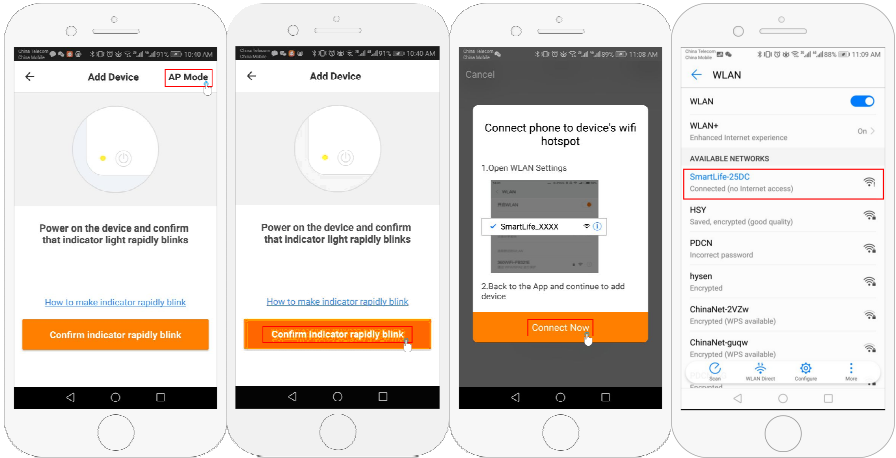


Fig 5-1

Fig 5-2

Fig 5-3

Fig 5-4

Step 6 APP Device interface operation and How to create a group

1. Power on/off button
2. Mode key: Manual mode, Auto mode, Holiday mode.
3. Child lock: After the child lock turned on, the APP cannot be operated.
4. Set key: After clicking on, you can select the programmed mode (5+2, 61, 7 days) and set the temperature and time for the six periods of the weekday and weekend.
5. Basic information page (Fig 6-1、 Fig6-2)

Device name: The device name can be modified according to your demand.

Share device: Share the device to the mobile phone or email account of the registered family member

Create Group: Add all the devices which need to operate at the same time to the created group for convenient operation.

Device information; Contains virtual ID; IP address; Mac address; Device time zone

Remove device: After deleting the device, you need to reconnect the network if you want to use it.

Third-party controls supported: **amazon Alexa/google assistant**, click to enter, you will see the steps

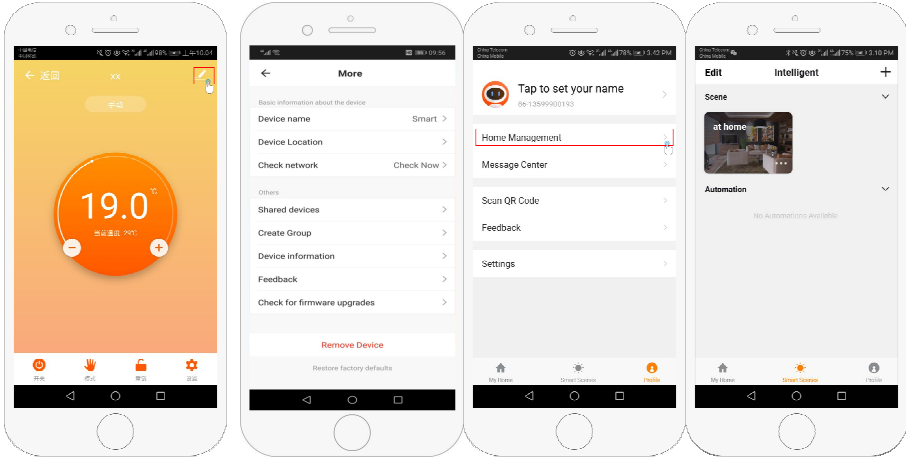


Fig 6-1

Fig6-2

Fig6-3

Fig6-4

Step 7 Family management (Fig6-3)

Add family: Family naming; family location setting; select room name, you can also add room name, upon completion, it will enter the Home Setting interface.

Step 8

What is your Smart Scene and How to use it? (Fig 6-4)

set your home to automatically turn on thermostat on when you back home Fig 6-4)

Press + button into the setting

Step 1: You can set a condition for task like Temperature below 21 degree, then click save, (condition:temp.,Humidity,weather,PM2.5, Air Quality, Sunrise/Sunset, Device)

Step 2: Add a task. Press + to Select Device (Power, Set Temp, Lock Mode) to act, then Save. If you want to delete the scene, you can press delete in the end.

NOTE: The room sound could be turned on/off in PROFILE-SETTING-SOUND. The sound is matched with the default of your system.