WIFI Low Voltage Thermostat

User Guide Model：TP808

About your new thermostat

This thermostat is used to control up to 3 stages heating and 2 stages cooling system with 8 types control system, EM heat activation, adjustable compressor delay time and O/B changeover. It is with tempered touch sensitive button, quick connecting terminals to save installer's time. 7 days programmable and four modes everyday make users' life convenient and comfortable.

Thermostat passed FCC standard.

Thermostat box you will find

Thermostat	Manual	Screws	QC pass certificate
✔	✔	✔	✔

Service

We offer the warranty of 18 months from the sales day. If it is not the problem of quality or beyond the warranty time, we will charge for the after-sale service.

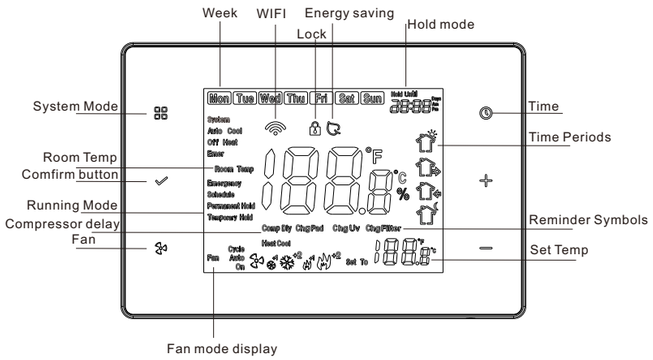
Technical Data of your thermostat

Sensor：NTC Accuracy：±1℉
Temp. Range：41℉ -95℉ Power Consumption：<1.5W
Timing error：<1%
Power Supply：AC24V, 50 ~60Hz
Current Load： Induction for fan: 3A;
Resistive for fan: 5A
Shell Material：PC （Fireproof）
Dimension：86x86x13.3mm
Installation box：86*86mm or European 60mm
Ambient Temp.：0 ℉~ 113℉， 5 ~ 95%RH(Non condensing)
Storage Temp：-41℉~ 140℉

Features of your thermostat

◆Apply with various kind of heating and cooling system. Including Single stage, Multi-stage And Heat Pump (Up to 3-stage heat, 2-stage cool, with Aux. Or Emergency heat)
◆Wireless WiFi: APPs for iOS and Android devices.
◆Voice control: Work with Amazon Echo and Google Assistant.
◆4.3'' LCD display with backlight
◆7days 4 time periods scheduling. Set the target heating and cooling temperature respectively.
◆Both Vacation mold and hold duration mode available for comfort and energy saving
◆Temperature display of Celsius or Fahrenheit scale

Home screen quick reference



Operation

:Switching System Mode
Short press button to select system mode: HEAT,COOL,AUTO,EMER,OFF.
:Comfirm button
Press this button to comfirm your settings.Press again select Schedule、 Permanent Hold and Energy saving
:Fan Mode
Press this button to select fan on,auto and cycle
Setting the time
When connecting the thermostat to Wi-Fi, the time will sync automatically. If not connecting to Wi-Fi, Press to set second-hour-week
Auto Mode
Short press button to select Auto.Short press button to enter AUTO mode
:Setting the Lock
Press and hold + − button at the same time over 7seconds to lock/unlock your thermostat
WIFI reset
Long press seconds to reset WIFI when power off

Check external sensor temperature
(external sensor only)
Press + and to check external sensor temperature

Setting a Schedule

When connecting the thermostat to Wi-Fi, the schedule is programmed based on time and temperature set points from the Sensi app. If you are not connecting to Wi-Fi, follow these steps to set a basic 7 day schedule with 4 mandatory set points.Long press button above 7secends to enter weekly program funtion.Short press button to set week-hour-cool temperature-heat temperature ,Short press to return back.Press+/- to set the parameters Long press + − at the same time over 7seconds to go back factory weekly program settings

Example Schedule

Week \ Period		Get up	Go outside	Go home	Sleep
Mon-Sun	Time	6:00	8:00	18:00	22:00
	Cool Temp	79℉	83℉	79℉	83℉
	Heat Temp	72℉	61℉	72℉	61℉

Wiring Diagram

RH: Power for heating, 24V
RC: Power for cooling, 24V
G: Indoor blower (fan)
S: Connect to S on C-wire adapter
O/B: Changeover (reverse valve) connection for heat pump or zone panel systems
Y: First outdoor stage cooling on conventional systems or first heat and cool on heat pump systems
Y2: Second outdoor stage cooling on conventional systems or second heat and cool on two stage heat pump systems or humidifier
NTC+: Outer Sensor+
NTC-: Outer Sensor-
C: Common wire, 24V
W /AUX: First indoor stage heat on conventional systems or first stage auxiliary
W2/E: Secondary indoor heat for conventional systems emergency heat on heat pump systems

Vocation function
Long press fan button over 7seconds to enter Vocation mode.Short press fan button check days->cool temp ->heat temp.Long press button for 7 sec.When you see the parmeter flash.Short press fan button to set the paremeters.Short press to excit

Setting Energy Saving Mode
Short press button to enter energy saving.The LCD will show on. If you need change engery saving temp. Long press button and button at the same time over 7seconds.Short press time button to set The order is ECO cool temp->ECO heat temp

Configuration Menu

No.	Menu item	Short Icon	Selection Range	Notes	Default
1	Set Up HVAC Equipment (Outdoor)	OUT	Outdoor Setup AC1/AC2/HP1/HP2/None		AC2
2	Set Up HVAC Equipment (Indoor)	IND	Indoor Setup GA1/GA2/EL1/EL2/None	When you select heat pump (AUX) GA1/EL1/NON option	EL2
3	Outdoor equipment 1	INE	When you select heat pump (EMER) GA1/EL1/NON option	Only Item 1 select OUT:HP1 HP2 workable	NON
4	Circulatio fan switch	FA1	ON/OFF		ON
5	Circulatio fan Setting range	FA2	10%-100%	If you set the Circulating Fan to 50%, the fan will run 30 minutes every hour. If any heat/cool cycles occur during the hour, their runtime is subtracted from the overall fan run time.	30%
6	Auto Mode	AUT	ON/OFF		ON
7	Compressor 1 delay	CO1	1-5min		3
8	Compressor 2 delay	CO2	1-5min		3
9	Reversing Valve Position	OB	O/B O:Cool B:Heat	Only Item 1 select out. HP1/HP2 workable	0
10	External sensor	SEN	ON/OFF		OFF
11	Both AUX/EMER	APU	ON/OFF	ON:Set "EITHER AUX/E"control the same time OFF: if you want to setup and control of Auxiliary and Emergency heating separately . This item is only displa yed if Item 1 is set to Heat Pump AND if Item 2 GA1/EL1 .Item3 GA1/EL1 Aux/E stages =	OFF
12	AUX lockout	APL	ON/OFF	Item 1 should be HP1/HP2 Item 2 should be GA1/EL1 Item10 should ON. Only all of three items workable	OFF
13	AUX lockout Temp	AO	-15~20 , 5-68	Item 1 should be HP1/HP2 Item 2 should be GA1/EL1 Item10 should ON.Item 12 ON. Only all of four items workable	36
14	Heat Pump Lockout	COL	ON/OFF	Item 1 should be HP1/HP2 Item 2 should be GA1/EL1 Item 10 should ON. Only all of three items workable	OFF
15	Heat Pump Lockout Temp	AC	-15~20 , 5-68	Item 1 should be HP1/HP2 Item 2 should be GA1/EL1 Item10 should ON.Item 13 ON. Only all of four items workable	32
16	Temperature Compensation	CL	-9~9		0
17	C/F selecable	FC	F/C		F
18	Maxmum Temperature Range	AH	20-50℃ ,68-95℉		95
19	Minimum Temperature Range	AL	5-20℃ ,41-68℉		41
20	Time	TI	12 24		12
21	UV Reminder time setting	UU	0-36		12
22	ChgPad Reminder Time Setting	PAD	0-36		12
23	ChgFilter Reminder Time Setting	FIL	0-36		12

Note:
Item 4: Circulating fan

Short press fan button to select cycle.Press to comfirm this function running.
If you want to circulate the air in your home using your indoor blower fan, you can set this feature at the thermostat. A percentage is selected to indicate how often the fan should run each hour, You can set 5% increments from 10% – 100%.
EXAMPLE:
If you set the Circulating Fan to 50%, the fan will run 30 minutes every hour.
If any heat/cool cycles occur during the hour, their runtime is subtracted from the overall fan run time

Item 21 Select UV lamp replacement run time
This is the reminder to change UV lamp . Select starts to counting for 0 day to 360 days. The thermostat will display "Chg UV" when UV time (Xxdays). APP will also reminder

item 22 Chg pad replacement run time
This is the reminder of replacement run time of Chgpad . Select starts to counting for 0 day to 360 days. The thermostat will display "Chg Pad" when Chg pad (XXdays).LCD will display.APP will also reminder

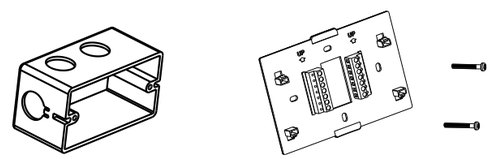
item 23 Chg Filter replacement run time
This is the reminder of replacement run time of Chg Filter Select starts to counting for 0 day to 360 days. The thermostat will display "Chg Filter" when Chg Filter (XXdays).LCD will display.APP will also reminder
All these three items you could check according to bellow steps.
Long press Menu button over 7seconds to enter check page.Short press menu button to next item. Press+ and - button over 7seconds to reset.

Sensor broken

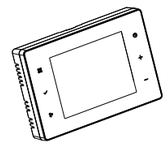
Er1:Inner sensor broken or not work
Er2:External sensor broken or not work

Installing your thermostat

This product is suitable for US standard wall box.
1. Connect the wire of power and other equipment into the terminals.Fix the wall plate into the wall box by a screwdriver.



2. Connect the LCD board into the wall plate



WARNING: Please arrange the professional technician to install this product according to installation drawing and instruction.
RISK OF ELECTRICAL SHOCK. Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.instruction.

WIFI Connection and app use explanation

Please try to make sure the router or modern closely with your mobile phone when first time to connect WIFI with your smart thermostat . This will help you connect WIFI sucessful more fastly.

Step 1.Please download the App (Fig1-1,Fig2-2)

Fig 1-1 Fig1-2

For IOS devices could search"Tuya Smart"or "Smart Life"app in app store.Or scan the QR code above(Fig1-1,Fig2-2)

For Android devices could search"Tuya Smart"or "Smart life"app in google play store.Or scan the QR code above(Fig1-1,Fig2-2)

Step 2. Register your account

Open "Smart Life" app.You will get a notification (Fig 2-1),Click Agree to go into your page of register (Fig 2-2). Press register and enter your phone no. or email (Fig 2-3) then you can get a verifification code (Fig2-4). Set your password and confifirm (Fig 2-5) to complete your registeration..If you have account, please log in.

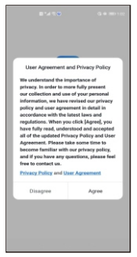


Fig 2-1

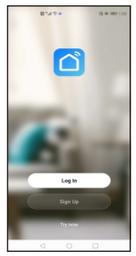


Fig 2-2

(Fig2-3)

(Fig2-4)

(Fig2-5)

Step 3 Connect WIFI signal with thermostat

Note: There are two WIFI signal connection way to your thermostat, EZ mode and AP mode Default is EZ mode(AP mode is slowly connection way, do not suggest to use)

EZ MODE WIFI connection

1.Please make sure your thermostat is power off. Press the comfirm button over 7seconds.The icon will flash one time per 0.5 second.

Then go to the app page see the picture(Fig3-1) bellow press "Add device"or"+"in the upper right to add your device. Choose- small applicance device-add manualy -Thermostat (Fig3-2).Then enter your wireless router name and password(Fig3-3) comfirm next.Click Confifirm indicator rapidly blink comfim next button (Fig 3-4). The app will connect automaticlly (Fig3-5). This will take 10seconds to connect sucessfully (Fig3-6)

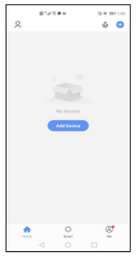


Fig3-1

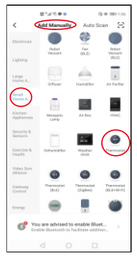


Fig 3-2

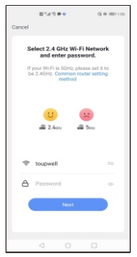


Fig 3-3

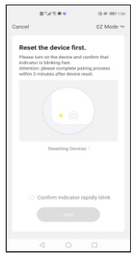


Fig3-4

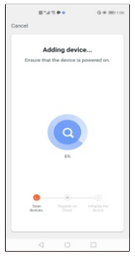


Fig 3-5

Fig 3-6

AP MODE wifi connection

1.On your thermostat

Please make sure your thermostat power is on. Press button the wifi symbol flash one time per second.

Click Confirm indicator slowly blink (Fig 4-1) then select your network and back to your app to enter the password of your wireless router (Fig 3-3) and confifirm. The app will go into the page in (Fig 4-2). Press Go to connect to select the wif signal Smartlife-XXXX of your thermostat (Fig 4-3) .

Then Go back to your app the app will connect automatically(Fig3-5).This will take 12seconds to connect sucessfully (Fig3-6)

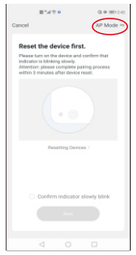


Fig4-1

Fig4-2

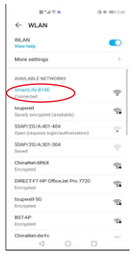


Fig4-3

App Buttons explanation

When you thermostat connect sucussfully.The page will same as (Fig 5-1).

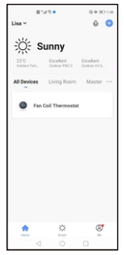


Fig5-1

Fig5-2

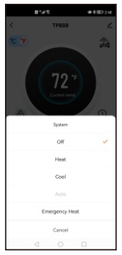


Fig5-3

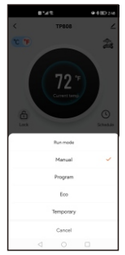


Fig5-4

Fig5-5

Fig5-6

Fig5-7

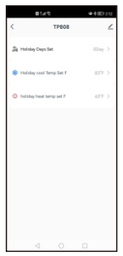


Fig5-8

System button. You could select mode Heat/Cool Emergency Heat,Auto.See page(fig5-2,fig5-3)

Run mode:You could select Program(Schedule), See (fig5-6).You could set four periods each da Manual(Permanent hold),Temporary hold,ECO (fig5-4)

Fan Mode select:See page(Fig5-5)You could select Auto/on/cycle/Auto fan here

Vocation Setting:Select you could setting Holiday days,Heat temp and cool temp(fig5-8)

C/F:In the left corner.You could easy to change temperature in C or F(fig5-2)

Child lock:Select lock/unclock your thermostat.

Settings :You could select temperature conpensation,Min temp.Max temp and back to factory setting etc.see page(fig5-7).

Where to connect with thrid party access service-Voice control?

You could click ME in the right corner button to enter m (Fig6-1) select voice contro Alexa.Google.Yandex alice , Smart things etc.(Fig6-2)

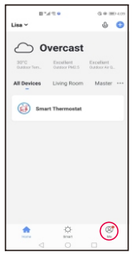


Fig6-1

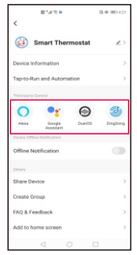


Fig6-2

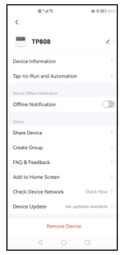


Fig6-3

How to share devices and creat group?

You could also Click in the upper right corner to select " share devices" and "creat group" with your family. See page(Fig6-3) Choose the "smart" button.Customize your own personal scenes to suit your needs.

Thermostats Trouble Shooting

NO.	Phenomenon	Handling method
1.	Room temp is litte different from the actual temp	You could use thermostat temperature conpensation to change the temp to be the same
2.	When the thermostats show ERR	This means you need to connect your external sensor
3.	Power on but not display	Please check weather you connect correct wires or your thermostat is connect well.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC’s RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.