



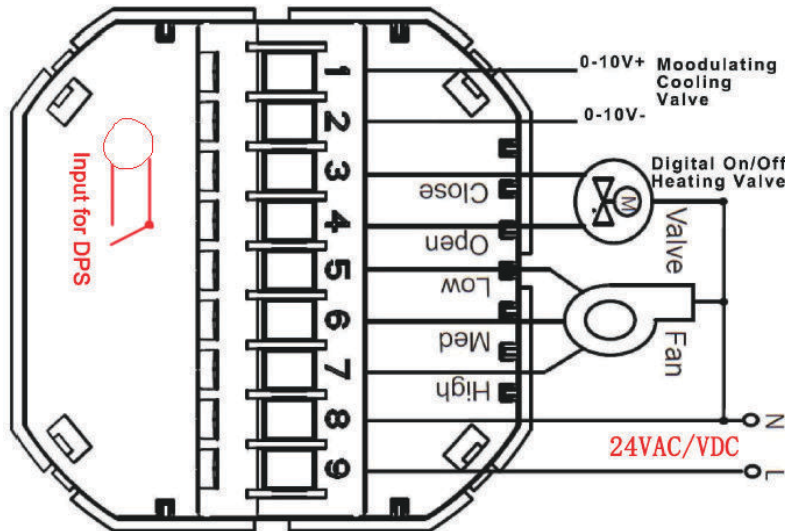
General

KSTAT-WF11-FC-4DMW24 series fan coil thermostat is designed with 3 fan speed and 1 cool modulating valve and 1 digital on/off valve output solution, it is widely used in these environment like Homes, Residential buildings, Schools, Hotels, Hospitals, Offices and etc. to main an ideal room temperature purpose.

Features

- Snap-In Easy Installation
- Fit for EU & Standard Junction Electric Box
- Fashion Sense of Science and Technology
- WiFi

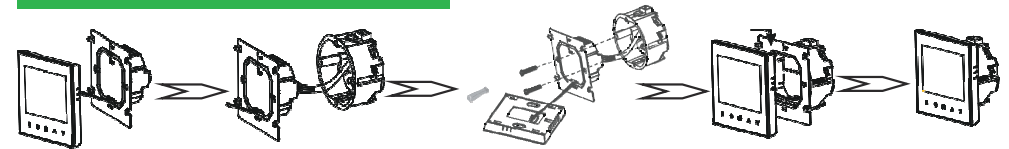
Typical Wiring



Specification

Power Supply	24Vac/Vdc, 50/60Hz	Sensor	NTC3950, 10K
Current Load	Fan Relay 5A(3A-inductive) Valve Relay 3A(1A-inductive)	Temperature Accuracy	±0.5°C or ±1°F
Storage Temp.	-5 ~ 45 °C	Set-Point Range	5~35°C
Power Consumption	< 1.5W	Display Temp. Range	5 ~ 99°C
Housing Material	PC +ABS (Fireproof)	Timing Error	< 1%
Wires on Terminals	Wire 2 x 1.5 mm ² or 1 x 2.5 mm ²	Installation Box	EU or Standard Electric Box
Protection Class	IP20	Operating Buttons	Capacitive Touch Buttons

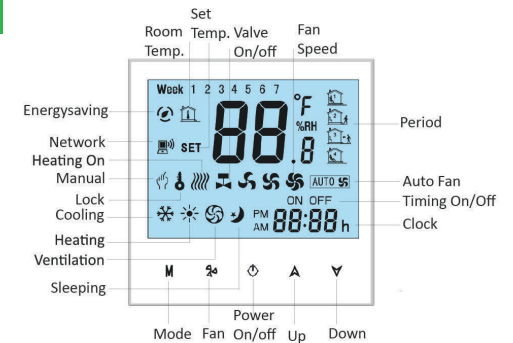
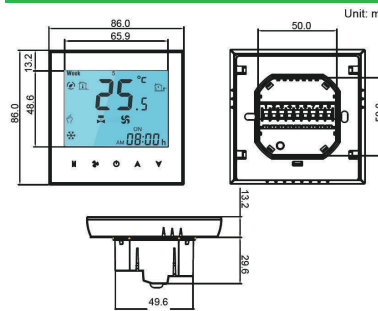
Installation







WARNING: 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.

- Make sure the power is OFF! Try turning ON your heating/cooling system by changing the temperature. If you can't get the system to turn ON in 5 minutes, you'll know the power is OFF.
- Take off the installation faceplate by rotating and gently pulling, then connect voltage supply/load output/external sensor(if with) wires respectively to appropriate terminals.
- Fix the installation plate onto the electric junction box with screws packed in the box.
- Fasten the thermostat display part and the installation faceplate through the groove.(Installation process completed)




Dimensions and Display



Operation

Buttons/Functions	Operation
	Switch thermostat power On or Off
	Increase or decrease set-point or parameters
	Select the Fan Speed in Auto-High-Medium-Low-Auto
Lock/Unlock	Press these 2 buttons  simultaneously and hold for 5 seconds to lock/unlock thermostat. <i>Notes: In parameter 3 of ISU process, Full/Half lock configurable.</i>
M	Switch among Heating or Cooling or Ventilation mode

Installer Set-UP Process (ISU)

 The installation personnel with non-professional training shall not perform this operation! During thermostat power off, Press these 2 buttons M &  simultaneously and hold for 5 seconds to enter ISU process. Press  to adjust the configurable parameter value, and press M to switch to next parameters. The ISU process will automatically exit and be confirmed after 5 seconds with no operation.

Parameter	Function	Configurable Value	Default
1	Temperature calibration	-9°C to +9°C (internal sensor)	-3
2	Fan Control Type	00:When room temp. reaches set point, the fan turns off 01:When room temp. reaches set point, the fan turns to low	00
3	Keypad Lock type	00: = All buttons will lock except the Power button 01: = All buttons will lock	01
4	Heating/Cooling	00: Cool only 01:Heating and Cooling	01
5	Min. set-point limit	5°C – 15°C	05
6	Max. set-point limit	15°C – 35°C	35
7	12/24 hours format	00:12h 01:24h	01
8	Temperature Display	00: display both set-point and room temp. 01: display set-point only	00
9	Dead Zone	1°C to 5°C (Switching differential)	1
10	Heating Valve Type	0=Normally Open, 1=Normally Closed	0
P	P value- ^{Note 1}	1-10	02
I	I value- ^{Note 2}	1s-60S	40S
C	Device Program Version Number		905

Notes:

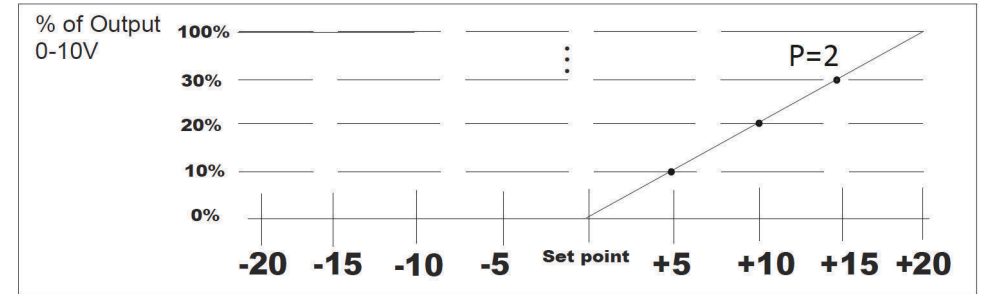
1. Definition of P value

The proportional band is the amount of change required by the ambient temperature for the output to go from 0 to 100%. It can be adjust from 1~10. Factory default is 2.

The P value is bigger, the change of valve output will be bigger; The P value is smaller, the change of valve output will be smaller. For example, when P=2, the temperature difference between ambient temperature and setpoint is 5°C, the valve will open about 10%; when P=4, the temperature difference between ambient temperature and setpoint is 5°C, the valve will open 20%.

Cool mode(P-band: 2)

When the ambient temperature is above the set point the output is somewhere between 0~100%.



2. Definition of I value

This feature allows you to set the integral action time for the integral to run from 0-100%.

The value required depends on the reaction time of the control loop.

If the time is chosen too short, the control loop will become unstable and oscillate.

If the time is chosen too long, the control loop will become sluggish.

It can be adjusted from 1s-60s.

Factory default set as 40s.

Warranty



- Products are warranted for 2 full year (checking and repairing services) from the date of purchase which products are not being damaged by any man-made factors.
- Service outwith the warranty period may incur an extra charge.
- More details please contact with supplier directly.

Wifi Connection

Step 1- Download and Install APP

Use your smart phone or tablet PC to scan the QR code below or Search "**SMART LIFE**" in the app store /Google play to download and install APP .



App Icon



For ios system



For Android system

Step 2- Register your account

- Open "**SMART LIFE**" application, click "Allow" on the pop up notification dialog(fig 2.1)
- Press "register" button on the register page(fig2.2)
- Select your region and type in your phone No. or email (fig 2.3) then you may get a verification code. Type in your password and confirm (fig 2.4) to complete your registration.
- If you already have an account, please just log in.

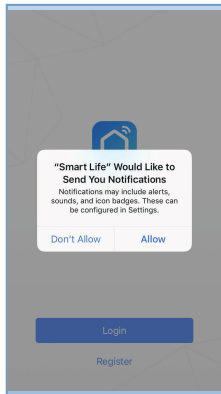


fig 2.1

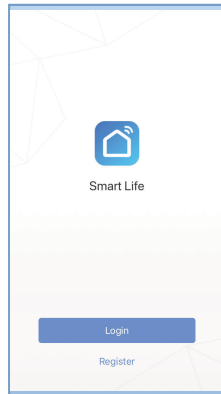


fig 2.2

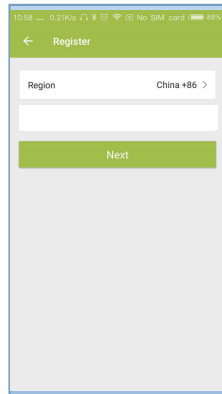


fig 2.3

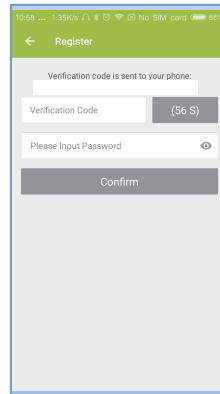


fig 2.4

Step 3- Connect App with Thermostat

On the thermostat

During power off status, press and hold the arrow icon ▼ for 8 sec until the connecting icon appears on the thermostat screen and flashes once a sec.

On the App

- Press the "+" on the upper right corner of the page (see Fig 3.1) or "**Add Device**" to add "**Thermostat**".
- Click "Confirm indicator rapidly blink" (Fig 3.2) then select your network and back to your App to enter the password of your wireless router(Fig.3.3) and confirm.
- The App will connect with the thermostat successfully. The connecting process takes 5~90 sec, the thermostat name can be editable once connected.(Fig.4.4)

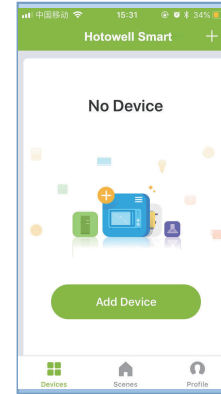


fig 3.1

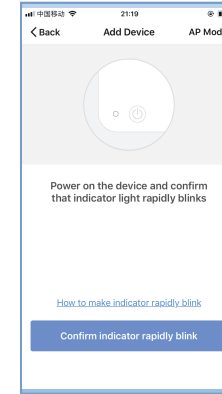


fig 3.2

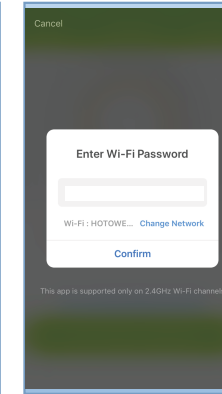


fig 3.3

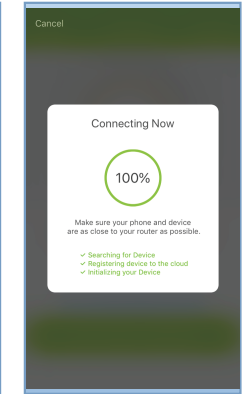


fig 3.4

Alternative AP mode Connection

*****If the thermostat has already been connected under above steps, please ignore this process.*****

This **SMART LIFE** App is only supported on 2.4GHz Wi-Fi channels.

If the router does not be supported, or the wi-fi signal is weak or thermostat can not be connected as above steps, please try this AP mode connection process.

On the thermostat

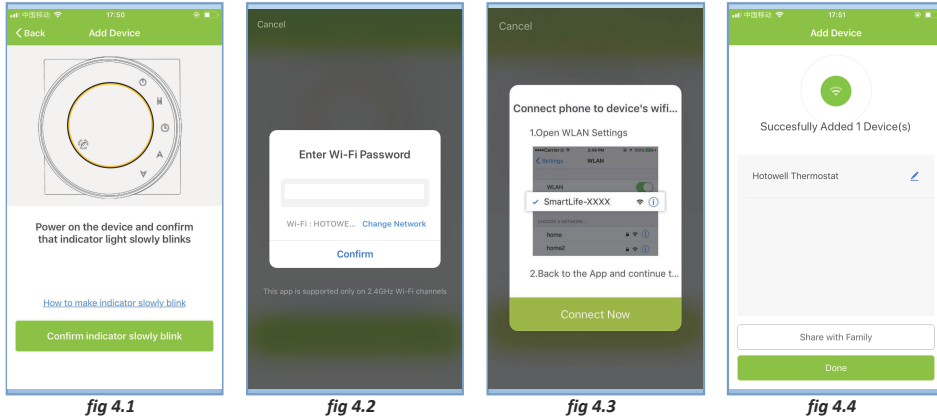
- During power off status, press and hold the arrow icon ▼ for 8 sec until the icon appears on the thermostat screen and flashes once a sec.
- press and hold the arrow icon ▼ for 8 sec again, the icon will flash once per 3 sec.(fig 4.1)

indicates connecting from normal router mode.

Indicates connecting from AP mode.

On the App

- 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 4.2) and confirm. The app will go into the page(fig 4.3)
- Press "Connect now" to select the wifi signal Smart life-XXXX from the thermostat(fig 4.3).
- This AP mode connection process may typically take approx. 5~90 seconds to complete.
- The thermostat name can be edited after connection (fig 4.4).



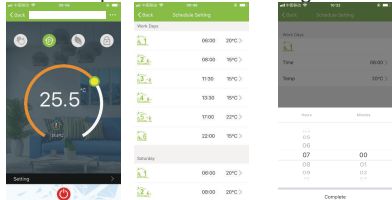
Operation Icons on APP

App Icons	Functions
	Switch thermostat power On or Off
	Lock/Unlock Icon. Locked=Green, Unlocked=Grey
	Economy mode. The thermostat runs with the set-point configured as Parameter B in ISU Economy set-point=20°C in default.
	Thermostat runs in Manual Mode
	Thermostat runs in Programmable Mode
	System in Cooling Mode
	System in Heating Mode
	System in Ventilation Mode
	Fan Speed Indicator

Programmable Schedule Setting

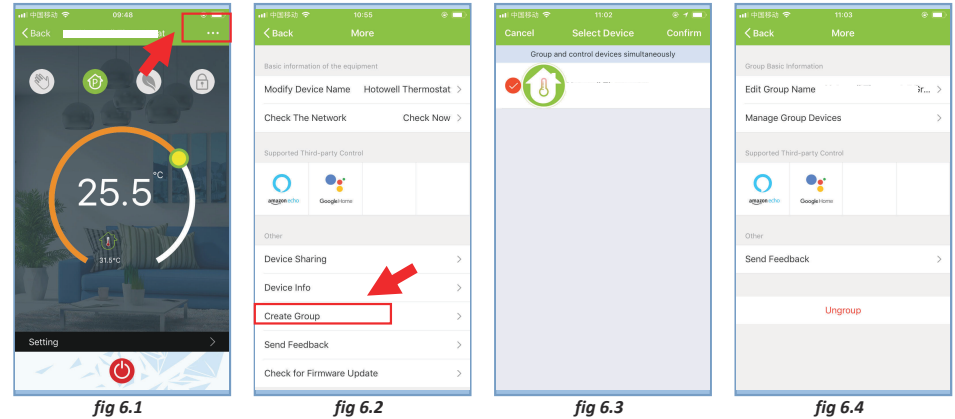
When thermostat runs in programmable mode, click the “schedule setting” to switch to the schedule page, where you can simply configure the weekly programmable 5+2 schedule up to 6 period each day. (Workdays=Monday~Friday, Weekend=Saturday and Sunday)

Click “Complete” to save the configuration.



Group Control and Info. Modify

- Press the menu button as fig 6.1, then click “Create Group”. Select all the rooms you want and confirm.(fig 6.2 and fig 6.3), edit the group name or ungroup as fig 6.3 and fig 6.4
- Group Control allows to control all thermostats(+∞ units) configuration in the group at the same time.

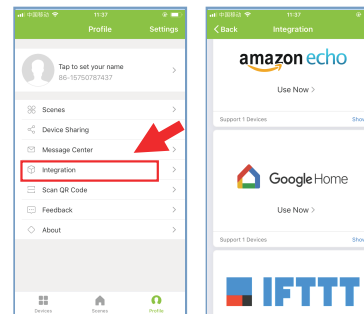


Share Thermostat with Others

- Method 1: Click “Share with Family” as fig 4.4.
- Method 2: Click “Profile”>”Sent”>”Add”>Switch on the device>”Share with New Member”>Type in the telephone number you would like to share with.
- Method 3:Home page of the device>Menu(as fig 6.1)>”Device Sharing”>”Add”>>Type in the telephone number you would like to share with.

Work with 3rd party Echo Control

Click “Profile”>”Integration”>Select amazon echo/Google Home/IFTTT>”Use Now” Details as below fig 7.1 and 7.2.



Customize Scene

- This process is to customize your own personal scenes to suit your needs, for example, set your home temperature automatically when you come back home.
- There are 4 scenes in default setting, and can be added/deleted at will.
- Here set an example of a specific scene: “leave home for holiday” and turn on the thermostat when temperature lower than 5°C
- Scenes(fig 8.1)>+>Enter a name for the scene(fig 8.2)>Add a condition(Below 5°C as fig 8.3)>Add a Task(fig 8.4)>Save

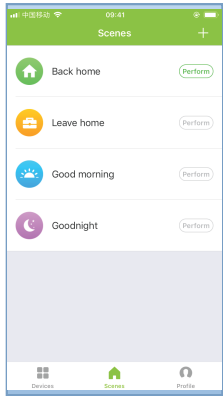


fig 8.1

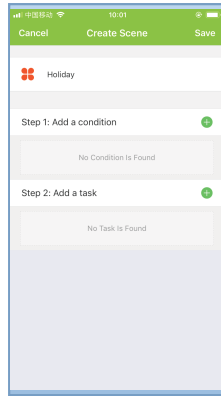


fig 8.2

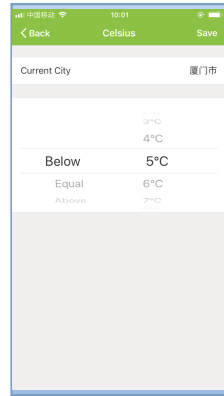


fig 8.3

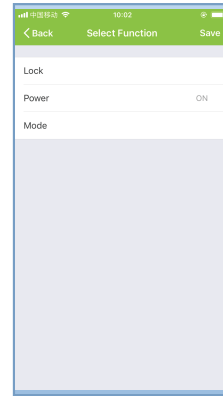


fig 8.4

Trouble Shooting

No.	If...	Then...
1	Power is on but without display.	<ul style="list-style-type: none"> ■ Check if the terminals between LCD panel and Relay/Power Module is loosen.
2	Without output but display works.	<ul style="list-style-type: none"> ■ Use a new LCD panel or new Relay/Power Module for Replacement
3	Room Temp. on display is not correct	<ul style="list-style-type: none"> ■ Do temperature calibration in parameter in ISU
4	Heating system does not respond	<ul style="list-style-type: none"> ■ Set the mode to heating by press-ing the M button. ■ Make sure the temperature is set above the room temperature. ■ Make sure “heat on” icon shows on the display. ■ Wait 5 minutes for the system to respond.
5	The M or Increase/Decrease button doesn't work	<ul style="list-style-type: none"> ■ Make sure keypad is unlocked. ■ Check that thermostat is on.

Notice: Hotowell reserves all the right for the final explanation. The manual is subject to change without further notice.