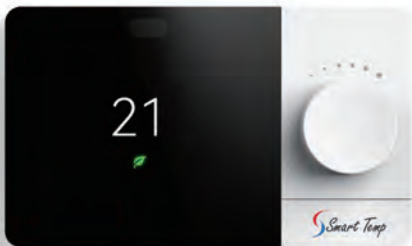




Flexistat[®] Thermostat

User Guide



works with the
Google Assistant



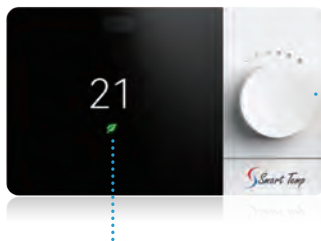
WORKS WITH
alexa

Flexistat WiFi color screen display programmable thermostat contain many models as follows:

Model name/number(s): SMT-450W / SMT-450B

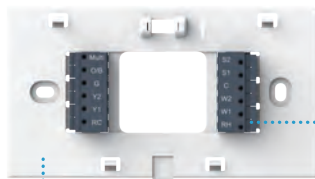
Model number	Difference
SMT-450W	White shell, with built-in proximity sensor
SMT-450B	Black shell, with built-in proximity sensor

Installation Guide



Display

Control buttons



Wall Plate

Wire terminals

What's Included



Flexistat
Thermostat



Wall Anchors
(x2)



Screws
(x2)



Wire Label
Stickers

Additional tools you'll need:

- Screwdriver
- Pen or pencil (to mark drilling holes)

Additional tools you might need:

- Needle-nose pliers
- Wire stripper
- Drill and drill bit (5.5mm)

WiFi Requirements

- 2.4 GHz (802.11b/g/n) WiFi network
- WiFi name and password

Installation

The Flexistat thermostat should be mounted in a suitable location.

- It is recommended to install the thermostat about 1.5m above the floor and in an open area with good air circulation.
- Do not install in locations that may affect the temperature reading, such as:
 - Drafty areas or poorly circulated areas.
 - Near ducts or appliances that blow hot or cold air.
 - Concealed pipes and chimneys.
 - Unheated (uncooled) areas such as an outside wall behind the thermostat.



WARNING

Failing to shut off the power could result in a serious injury, electrical shock, and/or risk of fire.

1. Turn off power.

Important: You must shut off the power at the fuse box that controls your heating/cooling system.

2. Test to make sure the power is off.

Sometimes there's some residual power in the thermostat so it could take up to 5 minutes for your old thermostat to turn completely off.

3. Remove your old thermostat.

Most thermostats allow you to just pull off the unit from its wall plate. However please make sure you're familiar with your old thermostat and the removal process, as you can potentially damage your wall if the process is incorrect.

Do NOT remove any wires yet from the old thermostat's wall plate.

4. Make sure the wires you have are supported.

If you have thick wires, wire nuts connected on the wires coming from the wall, or uses 240V, optional SmartPAK 240V-24V interface required.

5. Take a picture of your current wiring setup.

Use your smartphone to take a picture of the wiring and connectors with the letters. You will use this as a reference when connecting to the Flexistat thermostat.

6. Attach the included label stickers to the wires.

Wrap the label stickers around the appropriate wires. This will help when connecting them to the Flexistat thermostat's connectors.

7 . Disconnect the wires and remove the old wall plate.

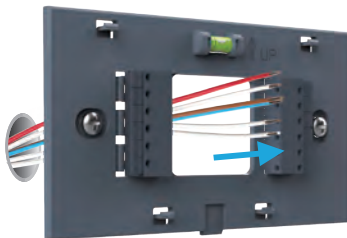
You may now start disconnecting the wires from the old thermostat's wall plate connectors. Make sure the wires do not fall back into the wall as they may be difficult to retrieve. Then, unscrew the wall plate from the wall to remove it.

8. Insert the wall anchors (optional).

You may choose to use the wall anchors to insert into the wall first before applying the new wall plate. First, hold the Flexistat wall plate onto the wall where you'll be installing it and use a pen or pencil to mark the screw holes on the wall. Take off the wall plate and use a 5.5mm drill bit to create the hole for the wall anchor, then insert the wall anchors.

9. Bring the wires through the Flexistat wall plate.

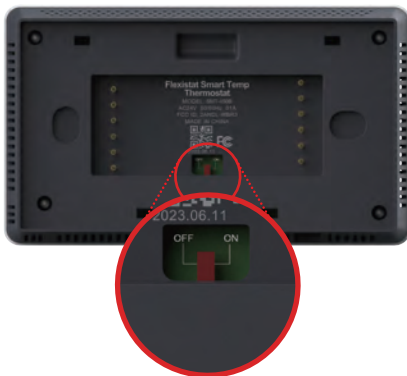
Bundle the wires together and through the middle hole of the Flexistat wall plate. Also check to make sure there is enough exposed wiring (at least 6.5mm) for each wire so they can insert into the wall plate connectors easily.



10. Connect your R wire(s).

Depending on your heating/cooling system you may have an R, Rh, and/or Rc wire(s). The Flexistat thermostat can accommodate for these three wires but some configurations require a “jumper” connect the power.

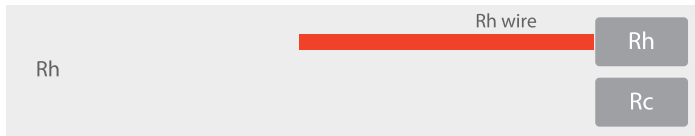
The jumper switch is located on the back of the thermostat as shown in the image below.



To determine the switch position, use the follow chart as a guide.

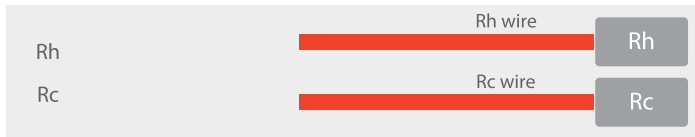
Turn the switch ON if:

Your heating and cooling equipment uses the same power supply



Turn the switch OFF if:

Your heating and cooling equipment unuses the same power supply



11. Connect the remaining wires.

Match your wires to the appropriate connectors on the wall plate. You will be connecting to the same labeled terminals as your old thermostat connections.

Note:

1. You may use Appendix 1 located in Page 28 as a reference if you encounter wiring issues.
2. Your wire colors may differ from the images shown below.

Terminal	Definition
C	AC 24V Common
RC	AC 24V power supply (transformer)
RH	AC 24V power supply (heating transformer)
W1	Heat 1 for Gas/Boiler; Heat 1 for dual fuel
W2	Heat 2 for Gas/Boiler; Auxiliary heat for heat pump; Med Speed
Y1	Cool 1 for AC; cool 1/heat 1 for heat pump(Comp1)
Y2	Cool 2 for AC; cool 2/heat 2 for heat pump(Comp2)
G	Fan output; Low Speed
O/B	Reverse (changeover) valve
Multi	Emergency heat; Heat 2 for dual fuel; High Speed
S1	Outdoor sensor terminal 1/2
S2	Outdoor sensor terminal 2/2

12. Attach your Flexistat WiFi Thermostat.

Firmly attach the Flexistat thermostat to the wall plate.

13. Turn the power back ON.

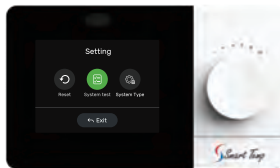
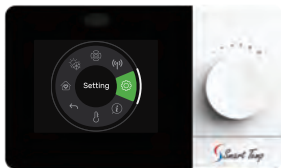
Turn ON the power at the breaker box.

14. Follow on-screen instructions.

Once the power is back on, there will be a sequence of instructions to connect the WiFi, enter zip code, and app pairing.


15. Setting configuration

Using the Knob, select the Settings menu. To enter Reset, Relay Test, System Type or you will need to press and hold the Knob for 10 seconds to access these menus. Please refer to the wiring diagram configuration for system type selection.



App pairing

⚠ WARNING

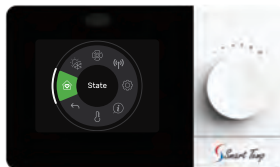
WiFi icon  should flash when device is activated for the first time:

If you see WiFi icon flashing, please jump to **Step 4**.

If you did not see WiFi icon flashing, please follow **Step 1** to **3** to activate thermostat pairing state.

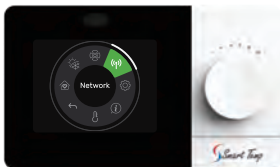
Step 1.

In home screen, press the knob to enter the main menu.



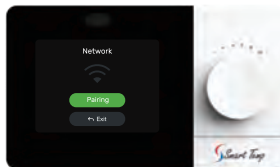
Step 2.

Rotate the knob to select the network setting, press the knob to enter.



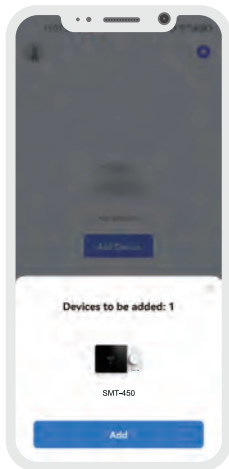
Step 3.

Select Pairing and press knob to activate thermostat pairing state.



Step 4a.


Download and Login to **Smart Life** or **Tuya Smart** app, Flexistat will be found automatically, a pop up page will appear as below.



WARNING

Mobile phone should connect to a 2.4G WiFi, and bluetooth should be enabled.

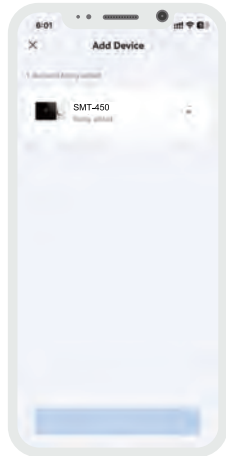
Step 4b.

If Flexistat did not pop up automatically, click  in the upper right corner, and click .



Step 5.

Enter the WiFi password click Start to start pairing. If pairing fail please repeat previous steps.



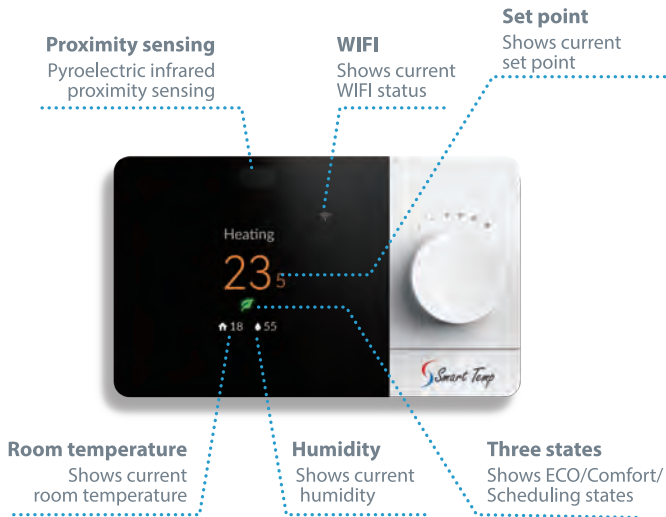
Operation Guide

The Flexistat WiFi Thermostat allows you remotely control and schedule your home's temperature with ease. It can support most home cooling and heating systems up to 4 stage heating and 2 stage cooling.














Key Features






- Smart phone control
- Weather aware
- Three operation states: Comfort, ECO, Schedule
- Schedule programmable
- Color screen display
- Local Knob Control
- Fan control
- Better temperature visibility and controls
- Compressor protection
- Knob lock
- Time synchronization
- UI friendly
- OTA upgrade
- Up to 4 heating and 2 cooling stage
- Early-On

Introduction



More icons you'll find:

Home Screen			
Icon	Definition	Icon	Definition
	State :ECO mode		WiFi signal strength
	State: Comfort mode		WiFi is not connected
	State: Scheduling mode		WiFi is only connected to router
	Minimum Compressor Off Time		Room temperature
Early-On	Early-On function start (check page 22)		Room humidity
	Fail to receive outdoor temperature		Knob lock
	Fail to receive weather forecast temperature		Fan speeds (Auto, Low, Med, High)
ERV	ERV function active		

Menu			
Icon	Definition	Icon	Definition
	State		Advanced setting
	System mode setting		Device info
	Fan mode setting		Temp & hum from different sources

Menu

Icon	Definition	Icon	Definition
	WiFi pairing setting		Exit
	System ON/OFF		Fan speeds (Auto, Low, Med, High)
	Cool mode		
	Heat mode		ERV (Disable, Enable)
	Cool/Heat auto switch mode		
	Emergency mode		Temperature
	Scheduling state		Humidity
	Comfort state		Exit
	Eco state		Next
	Reset setting		Try to pair WiFi again
	System test		WiFi Paring Complete
	System type		Select to start paring
	Fan mode		Reset setting to factory default
			Reset network setting to factory default

Functions

Functions	Descriptions
System Modes	Off, Heat, Cool, Auto, Emergency
Fan	Auto, On
Operation states	ECO, Comfort, Scheduling. User can switch between these states via local control & Mobile App
Room Temperature Display	Show the current room temperature.
Room Humidity Display	Show the room humidity
Minimum Compressor Off Time	A minimum Off time to make sure compressor cannot be started immediately after de-energized.
WiFi Connection	For OTA and remote control
Filter Change Reminder	Reminds to change filter based on timer
Knob Lock	Lock local control of thermostat
Early-On	To activate heat/cool equipment earlier dynamically and in time to make sure room temperature will reach to the scheduled temperature of next period on time.

Specifications







Temperature Accuracy	±0.5°C
Humidity Accuracy	±10% RH
Set Point Range	Heating:(4°C~32°C) /Cooling:(10°C~37°C)
Operating Temp/Humidity Range	0~50°C, 5~95% RH (non - condensing)
Screen Resolution	320x240 TFT LCD
Power Supply	AC 24V
Size	130x77x24 mm
Housing Material	PC+ABS V0
IP Rank	IP30
WiFi	2.4GHz only

Compatibility

- Compatible with most heating, cooling and heat pump systems.
- Required: 24 VAC power (“C” wire).
- Does not work with electric baseboard heat (Optional SmartPAK 240V-24V Interface Required).
- Does not work with millivolt systems.
- Android or iOS smart phone, tablet or device.
- 2.4GHz (802.11b/g/n) for WiFi connectivity

Operations

1) System mode selection


In the home screen, press the knob to enter main menu, rotate the knob and select “System mode ”, press the knob to set system mode, including: OFF , COOL , HEAT , AUTO , and EMER . The thermostat turns off cooling or heating outputs, if fan is in AUTO mode, fan output is also turned off, if fan is in ON mode, fan output is on.

Note that not all homes will have every mode option available and depends on your HVAC system. The thermostat determines which modes are active according to the HVAC system type.

2) View or modify the temperature setpoint




In the home screen:

When OFF  mode is selected, home screen will not display set point, select other mode to view and set setpoint.

When AUTO  mode is selected, home screen will display both Heat and Cool setpoint, rotate the knob to select the setpoint that needs to be set, press the knob to activate setting state, rotate the knob to set, press the knob or wait for 30s to confirm the new setpoint.

When system mode is not AUTO  or OFF , home screen will display Heat or Cool setpoint depend on the mode you set, rotate the knob to set, press the knob to confirm the new set point.

3) Thermostat running State selection

In home screen press and hold the knob for 1.5s or go to the main menu, to set thermostat running state between Scheduling , Comfort , and ECO 

Scheduling state

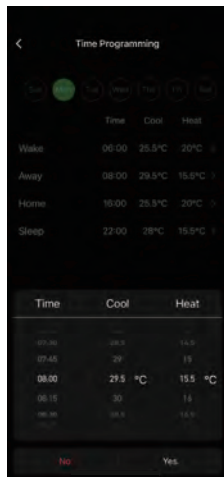
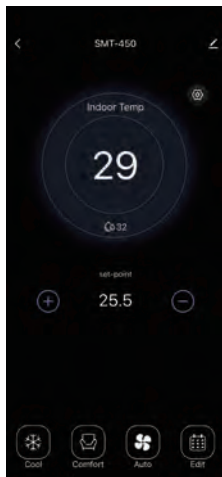
In this state, thermostat state is running following a programmed schedule, Default scheduling is as below:

Period	Time	Heating	Cooling
Wake	6:00am	20 °C	25 °C
Away	8:00am	15 °C	29 °C
Home	4:00pm	20 °C	25 °C
Sleep	10:00pm	15 °C	27 °C

User can set the schedule only on the mobile APP:

Step 1 click  to edit schedule

Step 2 click  to set the time and setpoint of each period.



Temporary hold scheduling: change the setpoint to temporarily hold current time period scheduling. Thermostat will go back to the programmed schedule when next time period is reached.

Permanent hold scheduling: select **Comfort** or **ECO** state to permanent hold scheduling.








Comfort  & **ECO**  state

You can define the setpoint of ECO  & Comfort  state. Flexistat will remember the setpoints you set.


Default setpoint for Comfort mode: Heat setpoint = 22 °C; Cool setpoint = 25 °C

Default setpoint for ECO mode: Heat setpoint = 17 °C; Cool setpoint = 27 °C

4) Fan mode selection

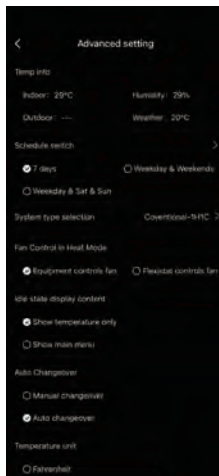
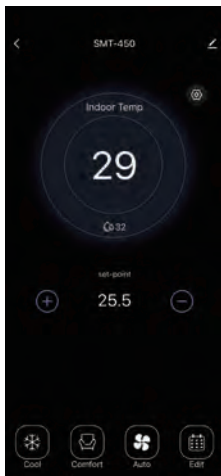
In the home screen, press the knob to enter main menu, rotate the knob and select "Fan mode ", Press the knob to set fan mode, including ON  &, AUTO . For FCU mode, fan speeds includes AUTO , Low , Med , and High .

Advanced Settings

Press the settings icon  on the app to enter Advanced Settings interface. You will need to enter installer PIN / Password code 0021 to access this menu. Advanced settings is only available from the mobile app.

WARNING

Do not change advanced setting without consulting with technical support.



Temp Info

Display all the temperature and humidity readings from various sources.

Schedule Type

Use this setting to change schedule types.

7 days scheduling allows users to set different schedule for each weekday.

Weekdays & weekends scheduling allow users to set different schedule for 5 weekdays and 2 weekend days.

Weekdays & Sat& Sun scheduling allow users to set different schedule for 5 weekdays, Saturday, and Sunday.

System type

Change this setting to make sure your thermostats control logic is aligned with your HVAC system. Please contact technical support if you are not clear with your HVAC system type.

Fan Control in Heat mode

Change this setting to define if you want Flexistat to control the fan of your conventional Air Conditioning and Furnace system when fan mode is set to AUTO in heating mode. For Heat Pump application, this setting is hidden and set to thermostat controls fan when fan mode is set to AUTO in heat mode.

Dual fuel balance point

This setting defines what temperature should the dual fuel furnace kick on.

When outdoor temperature is 1°C above balance point temperature, Heat Pump will be the heat source.

When outdoor temperature is 1°C below balance point temperature, additional heat equipment will be the heat source.

Dual fuel outdoor temperature source

Change this setting to define the outdoor temperature source to compare with balance point for heat system switch.

O/B energized on heat or cool call

This setting is for Heat Pump system only. The orientation setting O/B energizes the reversing valve. When energized, the reversing valve helps the heat pump to switch between the cooling and the heating modes. If your heat pump system blows hot air in cooling mode, or blows cool air in heating mode, you may check this setting.

Idle state display

Change this setting to set idle state display contents.

Auto changeover

Change this setting to enable or disable heat and cool mode auto switch function.

Auto changeover dead band

Change this setting to adjust the gap between heat and cool set point. This setting is only available when auto changeover is enabled. Main display will show both heat mode set point and cool mode set point when auto changeover is enabled. Note: cool mode set point should be always equal or larger than heat mode set point plus dead band value.

Temperature unit

Change this setting to switch between Celsius and Fahrenheit.

Cycle per hour for cool/Cycle per hour for heat

Use these settings to define how many times per hour your heating or cooling system will turn on and off.

Filter change reminder

Change this setting to set a filter reminder. When the set running time is reached, Flexistat will remind you to change the filter. The filter timer can be reset by press the “Reset filter” button.

Early-on

Enable this function will allow thermostat to activate heat/cool equipment earlier dynamically and in time to make sure room temperature will reach to the scheduled temperature of next period on time.

Minimum compressor off time

This function is designed to protect your equipment by keeping the compressor off for a few minutes before restarting, the minimum off timer is activated after the compressor turns off.

Do not change this setting if you are not a trained technical expert.

Heat set-point range/Cool set-point range

Change this setting to change set-point range of heat and cool, default heat set-point range is 4°C to 32°C, you can only set the upper limit of heat set-point; default cooling set-point range is 10°C to 37°C, you can only set the lower limit of cool set-point.

Delayed fan on time – heat/ Delayed fan on time -cool

Change this setting to define if fan needs to keep running for a period to blow the remaining heat or cool out of the system. Only functional when thermostat is controlling your fan output and fan is set to Auto mode.

Knob lock

Change this setting to lock or unlock the control knob of Flexistat. Once the knob is locked, you cannot control the Flexistat locally.

Temperature reading offset

Change this setting to add a plus or minus offset to display value of room temperature.

Screen normal state brightness/Screen idle state brightness

Change these settings to adjust the brightness, when screen is in normal state and idle state.

Reset thermostat

You can reset your Flexistat by this seting.

Choose "Reset settings" will reset all settings to factory state, after reset is complete, Flexistat will restart and connect to mobile App automatically.

Choose "Reset Network Settings" will reset your network setting only, you will need to go through the WiFi pairing process to connect Flexistat with your mobile App.

Hard Reset

In case of abnormal operation on Flexistat, such as a crash or no response of the knob, please press the reset button to force Flexistat to restart. The position of the reset button is shown in the right figure:



Appendix 1

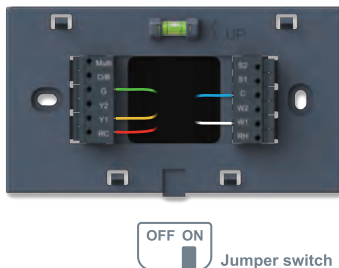
Terminal	Definition
C	AC 24V Common
RC	AC 24V power supply (transformer)
RH	AC 24V power supply (heating transformer)
W1	Heat 1 for Gas/Boiler; Heat 1 for dual fuel
W2	Heat 2 for Gas/Boiler; Auxiliary heat for heat pump; Med Speed
Y1	Cool 1 for AC; cool 1/heat 1 for heat pump(Comp1)
Y2	Cool 2 for AC; cool 2/heat 2 for heat pump(Comp2)
G	Fan output; Low Speed
O/B	Reverse (changeover) valve
Multi	Emergency heat; Heat 2 for dual fuel; High Speed
S1	Outdoor sensor terminal 1/2
S2	Outdoor sensor terminal 2/2

Note:

The default mode of jumper switch is in ON mode, in this mode the RC and RH are jumping together by the switch. If your system has two transformer or the system type is set to 10-12, 14, 16-18, please turn the jumper switch to OFF mode.

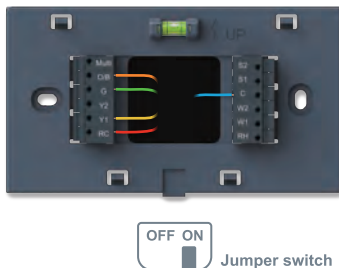
1-1heat/1cool conventional (default setting)

Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	—
Y1	Cool 1 for AC
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	—
W1	Heat 1 for Gas heat
RH	—



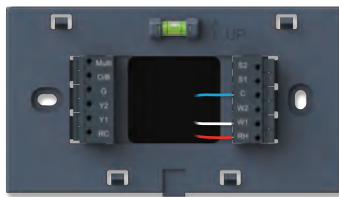
2-1heat/1cool heat pump (no AUX heat)

Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	—
Y1	Cool 1/heat 1 for heat pump(comp)
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



3-Heat only conventional (no fan)

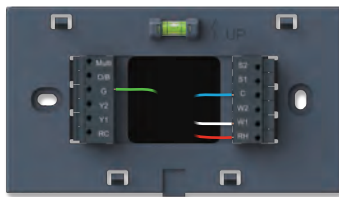
Terminal	Definition
Multi	—
O/B	—
G	—
Y2	—
Y1	—
RC	—
S2	—
S1	—
C	AC 24V Common
W2	—
W1	Heat for Boiler
RH	AC 24V power supply



Jumper switch

4-heat only conventional (with fan)

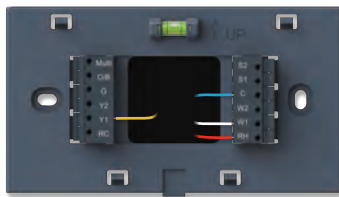
Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	—
Y1	—
RC	—
S2	—
S1	—
C	AC 24V Common
W2	—
W1	Heat for Gas heat
RH	AC 24V power supply



Jumper switch

5-heat only (power to open and close zone valves or normal-open zone valves)

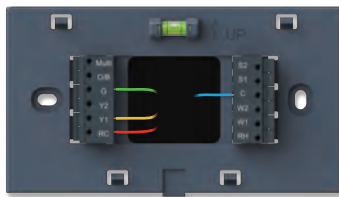
Terminal	Definition
Multi	—
O/B	—
G	—
Y2	—
Y1	Valve close
RC	—
S2	—
S1	—
C	AC 24V Common
W2	—
W1	Valve open
RH	AC 24V power supply



Jumper switch

6-cool only conventional

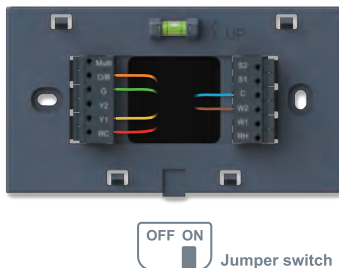
Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	—
Y1	Cool 1 for AC
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



Jumper switch

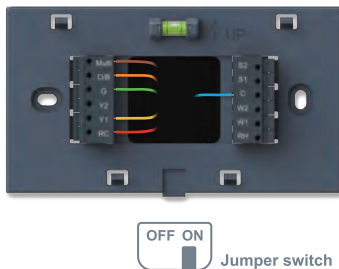
7-2heat/1cool heat pump (with AUX heat)

Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	—
Y1	Cool 1/heat 1 for heat pump(comp)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	Auxiliary heat for heat pump
W1	—
RH	—



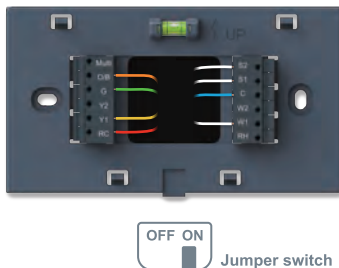
8-2heat/1cool heat pump (with E heat)

Terminal	Definition
Multi	Emergency heat
O/B	Reverse (changeover) valve
G	Fan output
Y2	—
Y1	Cool 1/heat 1 for heat pump(comp)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



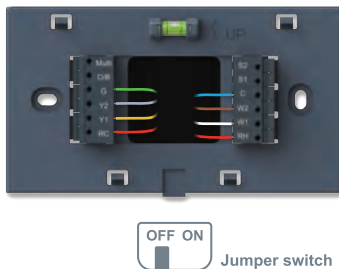
9-2heat/1cool Dual Fuel

Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	—
Y1	Cool 1/heat 1 for heat pump(comp)
RC	AC 24V power supply
S2	Outdoor sensor terminal 2/2
S1	Outdoor sensor terminal 1/2
C	AC 24V Common
W2	—
W1	Heat 1 for dual fuel
RH	—



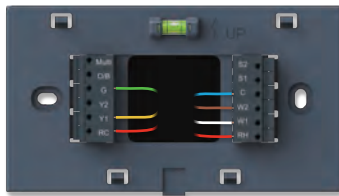
10-2heat/2cool multistage conventional

Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	Cool 2 for AC
Y1	Cool 1 for AC
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	Heat 2 for Gas heat
W1	Heat 1 for Gas heat
RH	AC 24V power supply



11-2heat/1cool multistage conventional

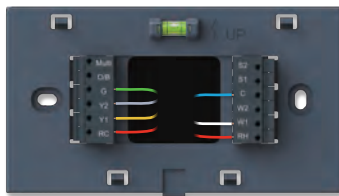
Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	—
Y1	Cool 1 for AC
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	Heat 2 for Gas heat
W1	Heat 1 for Gas heat
RH	AC 24V power supply



Jumper switch

12-1heat/2cool multistage conventional

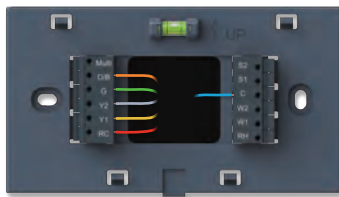
Terminal	Definition
Multi	—
O/B	—
G	Fan output
Y2	Cool 2 for AC
Y1	Cool 1 for AC
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	—
W1	Heat 1 for Gas heat
RH	AC 24V power supply



Jumper switch

13-2heat/2cool heat pump (no AUX heat)

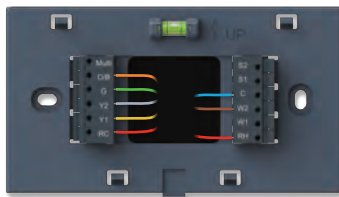
Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump(comp1)
Y1	Cool 1/heat 1 for heat pump(comp2)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



Jumper switch

14-3heat/2cool heat pump (with AUX heat)

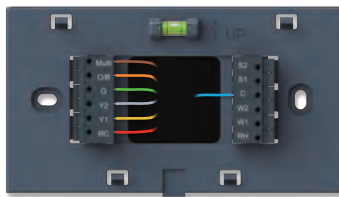
Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump(comp1)
Y1	Cool 1/heat 1 for heat pump(comp2)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	Auxiliary heat for heat pump
W1	—
RH	AC 24V power supply



Jumper switch

15-3heat/2cool heat pump (with Emergency heat)

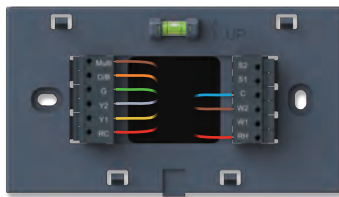
Terminal	Definition
Multi	Emergency heat
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump(comp1)
Y1	Cool 1/heat 1 for heat pump(comp2)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



Jumper switch

16-4heat/2cool heat pump (with AUX & Emergency heat)

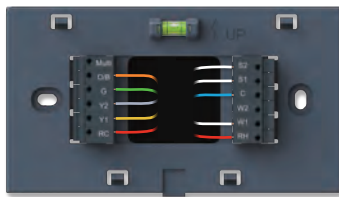
Terminal	Definition
Multi	Emergency heat
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump(comp1)
Y1	Cool 1/heat 1 for heat pump(comp2)
RC	AC 24V power supply
S2	—
S1	—
C	AC 24V Common
W2	Auxiliary heat for heat pump
W1	—
RH	AC 24V power supply



Jumper switch

17-3heat/2cool dual fuel

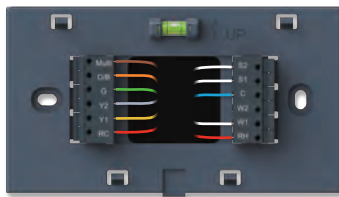
Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump
Y1	Cool 1/heat 1 for heat pump
RC	AC 24V power supply
S2	Outdoor sensor terminal 2/2
S1	Outdoor sensor terminal 1/2
C	AC 24V Common
W2	—
W1	Heat 1 for dual fuel
RH	AC 24V power supply



Jumper switch

18-4heat/2cool dual fuel

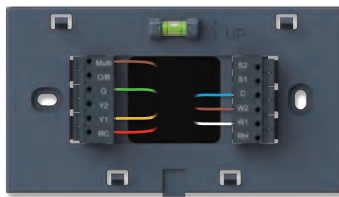
Terminal	Definition
Multi	Heat 2 for dual fuel
O/B	Reverse (changeover) valve
G	Fan output
Y2	Cool 2/heat 2 for heat pump
Y1	Cool 1/heat 1 for heat pump
RC	AC 24V power supply
S2	Outdoor sensor terminal 2/2
S1	Outdoor sensor terminal 1/2
C	AC 24V Common
W2	—
W1	Heat 1 for dual fuel
RH	AC 24V power supply



Jumper switch

19-FCU

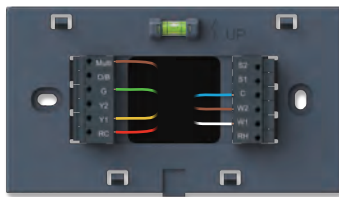
Terminal	Definition
Multi	Fan speed High for FCU
O/B	—
G	Fan speed Low for FCU
Y2	—
Y1	Cool for FCU
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	Heat for FCU
RH	—



Jumper switch

20-FCU (AC for Cool)

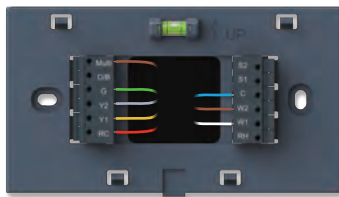
Terminal	Definition
Multi	Fan speed High for FCU
O/B	—
G	Fan speed Low for FCU
Y2	—
Y1	Cool 1 for AC
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	Heat for FCU
RH	—



Jumper switch

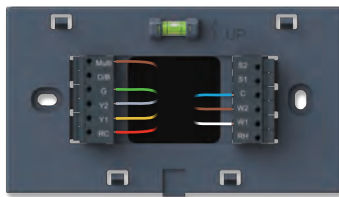
21-FCU (ERV)

Terminal	Definition
Multi	Fan speed High for FCU
O/B	—
G	Fan speed Low for FCU
Y2	ERV
Y1	Cool for FCU
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	Heat for FCU
RH	—



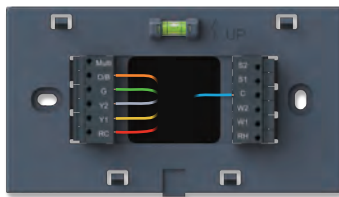
22-FCU (ERV; AC for Cool)

Terminal	Definition
Multi	Fan speed High for FCU
O/B	—
G	Fan speed Low for FCU
Y2	ERV
Y1	Cool 1 for AC
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	Heat for FCU
RH	—



23-HP-1H1C (ERV)

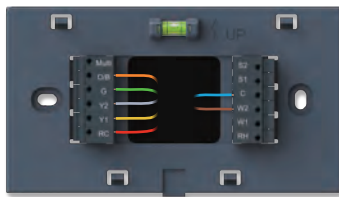
Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	ERV
Y1	Cool 1/heat 1 for heat pump
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	—
W1	—
RH	—



Jumper switch

24-HP-2H1C (ERV& AUX)

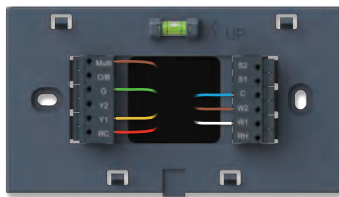
Terminal	Definition
Multi	—
O/B	Reverse (changeover) valve
G	Fan output
Y2	ERV
Y1	Cool 1/heat 1 for heat pump
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Auxiliary heat for heat pump
W1	—
RH	—



Jumper switch

25-1heat/1cool with 3 speed conventional (default setting)

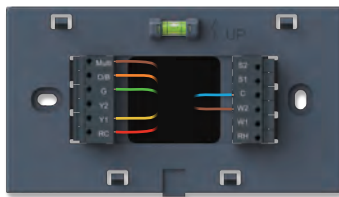
Terminal	Definition
Multi	Fan speed High for FCU
O/B	—
G	Fan speed Low for FCU
Y2	—
Y1	Cool 1 for AC
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	Heat 1 for Furnace
RH	—



Jumper switch

26-1heat/1cool with heat pump 3 speed (no Aux)

Terminal	Definition
Multi	Fan speed High for FCU
O/B	Reverse (changeover) valve
G	Fan speed Low for FCU
Y2	—
Y1	Cool 1/heat 1 for heat pump
RC	AC 24V power supply (transformer)
S2	—
S1	—
C	AC 24V Common
W2	Fan speed Med for FCU
W1	—
RH	—



Jumper switch

FCC Compliance

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.

Attention that changes or modification not expressly approved by the party that may cause that may cause compliance could void the user's authority to operate the equipment.

Note: This product 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 product 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 product 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.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Manufacturer:

Smart Temp Australia Pty Ltd

20/ 1488 Ferntree Gully Road

Knoxfield Victoria 3180 Australia

www.smarttemp.com.au TEL: 61-3-97630094