



Main Display

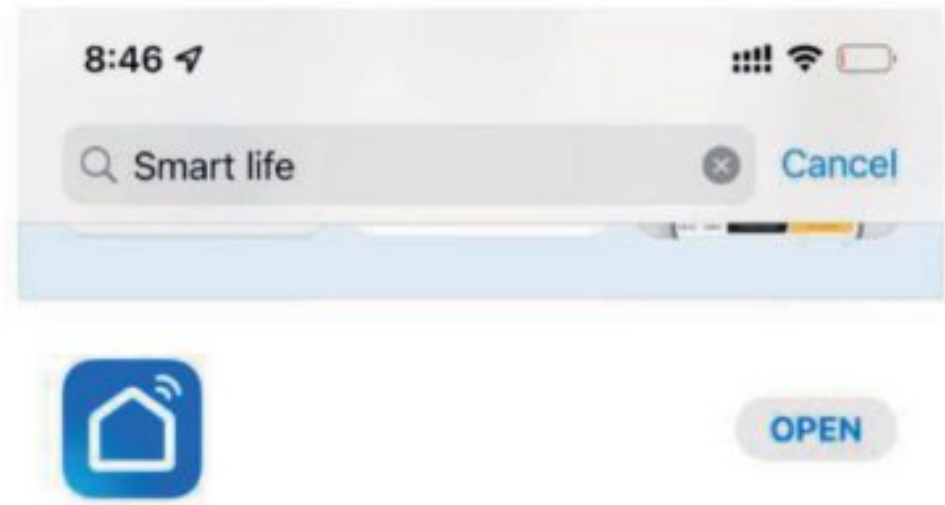


- 01 WIFI indicator- Displayed when connected to a WIFI Network
- 02 History data.
- 03 Adjusting the optional settings.
- 04 Day Indicator & Clock
- 05 System Mode: Heat, Cool, Auto, Off
- 06 Fan mode: Auto, On
- 07 Humidity, temperature chart
 - a. If humidity less than 30%, the pointer will be in the Red area.
 - b. If humidity is between 30% and 80%, the pointer will be in the Green area.
 - c. If humidity value is more than 80%, the pointer will be in the Blue area.
- 08 Power ON/OFF
- 09 Holiday: Displayed when thermostat is in holiday mode.
- 10 Schedule: Programmable Operation.
- 11 Setup Button
- 12 13 Adjusting the Setting Temperature or Turn Page.
- 14 Setting Temperature display
- 15 Room Temperature display
- 16 °C or °F Display
- 17 Displayed "Heating/Cooling/Auto" symbol

WIFI CONNECTION

the router needs to be 2.4G band only

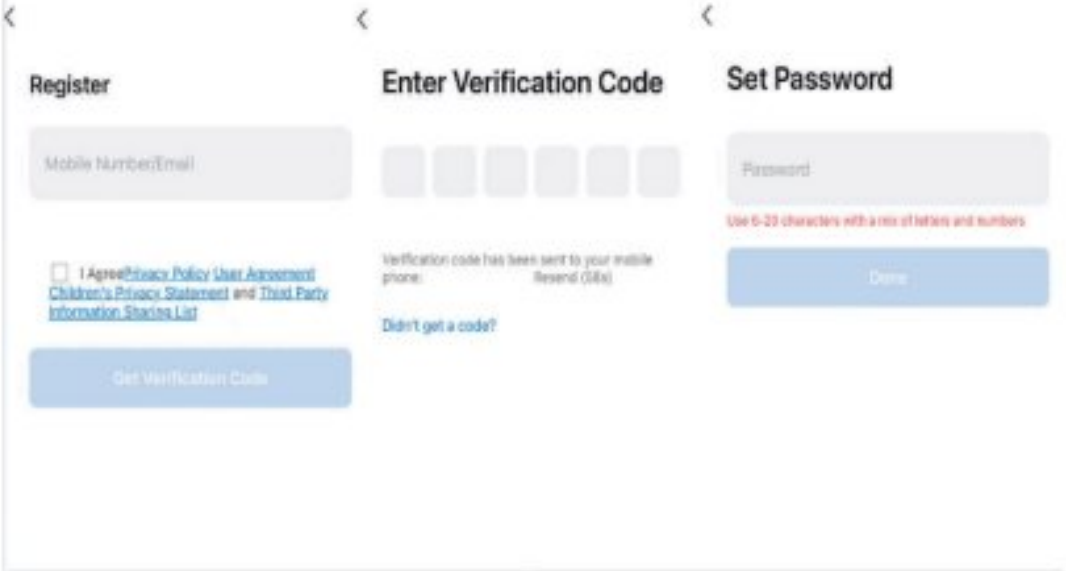
Pairing Thermostat with the APP
The router needs to be 2.4G band only
Download the free App from the Apple Store or the Google Play Store by searching "Smart Life" as below.



Please enable the "Blue tooth" to "Smart Life" app in your mobile settings

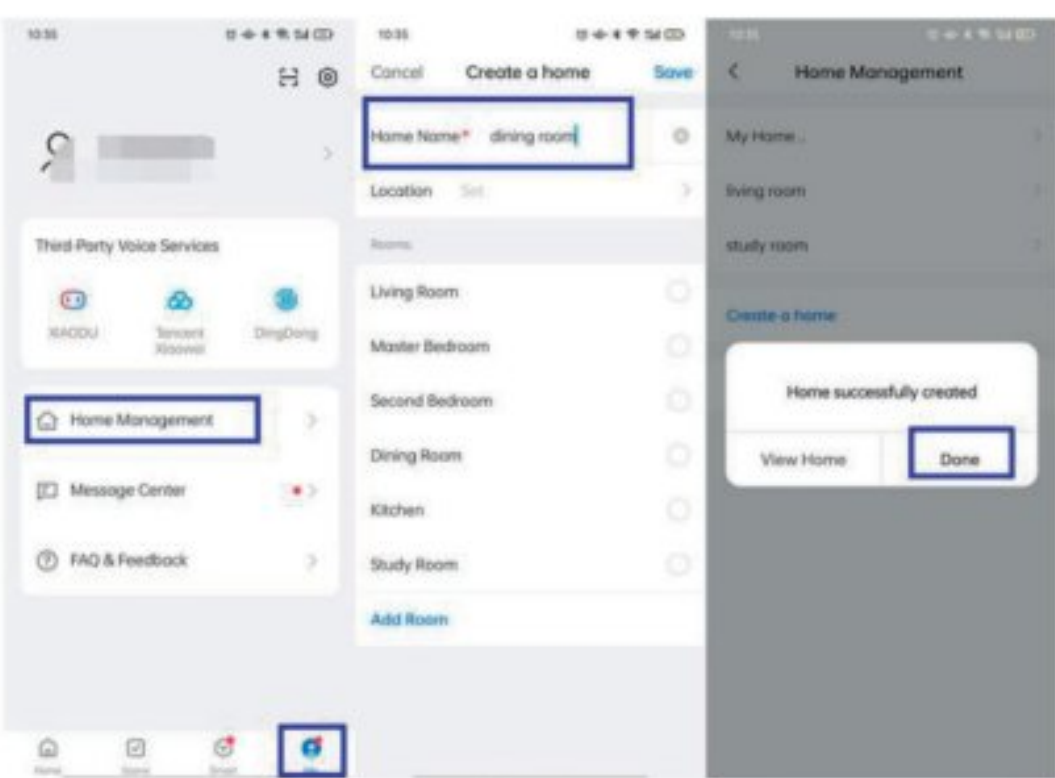
Thermostat operation
Press and then "Network Settings", find "WiFi Reconfiguration" and press it

App operation
Step 1 Register your account
Click "register" after install APP
Please read the Privacy Policy and press Agree to proceed to the next step.
Registration account name uses your available Email Or mobile phone number, and please select Region, then click"Continue"
You will receive a 6-digit verification code from your email or SMS
Please set the account password, Password must contain 6-20 letters and numbers. click "Done"



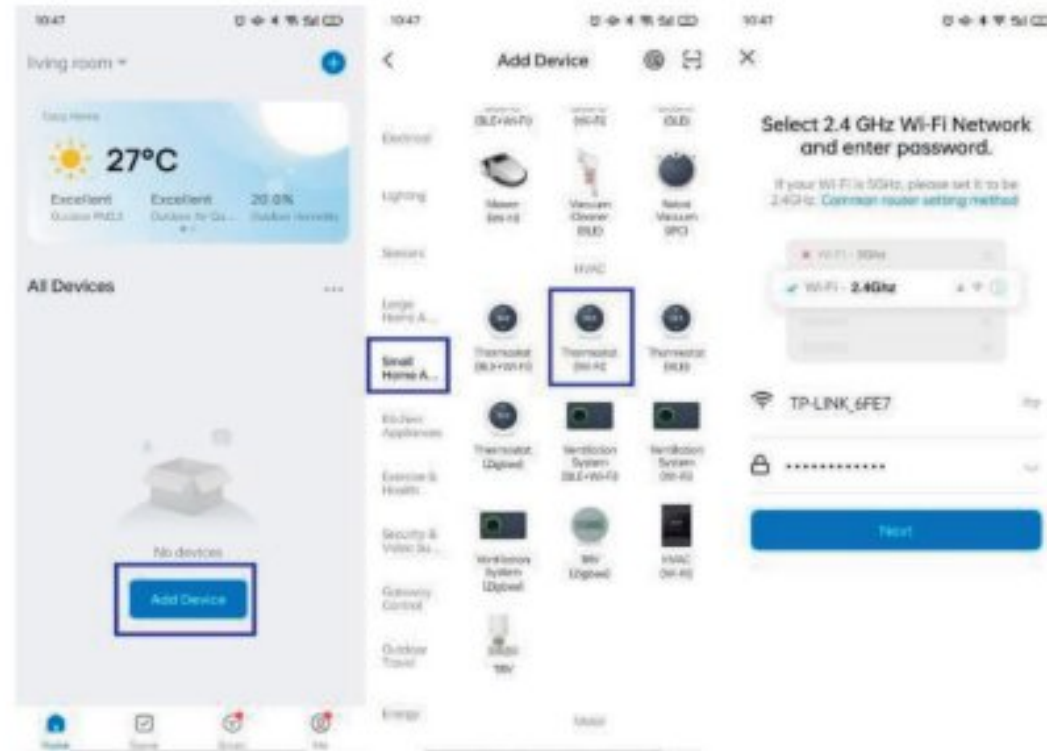
Step 2 Create Home information from "Me"

- 1. Fill in the Home name.
- 2. Select or add a room
- 3. Set location

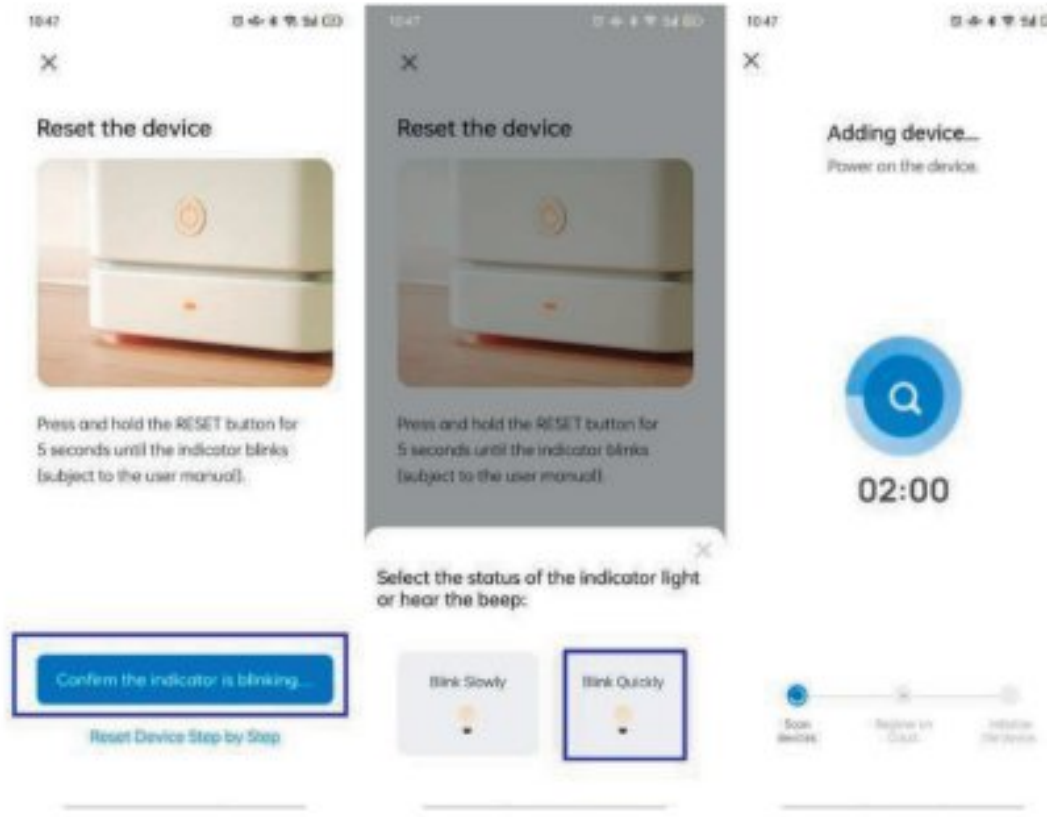


Step3: Connection

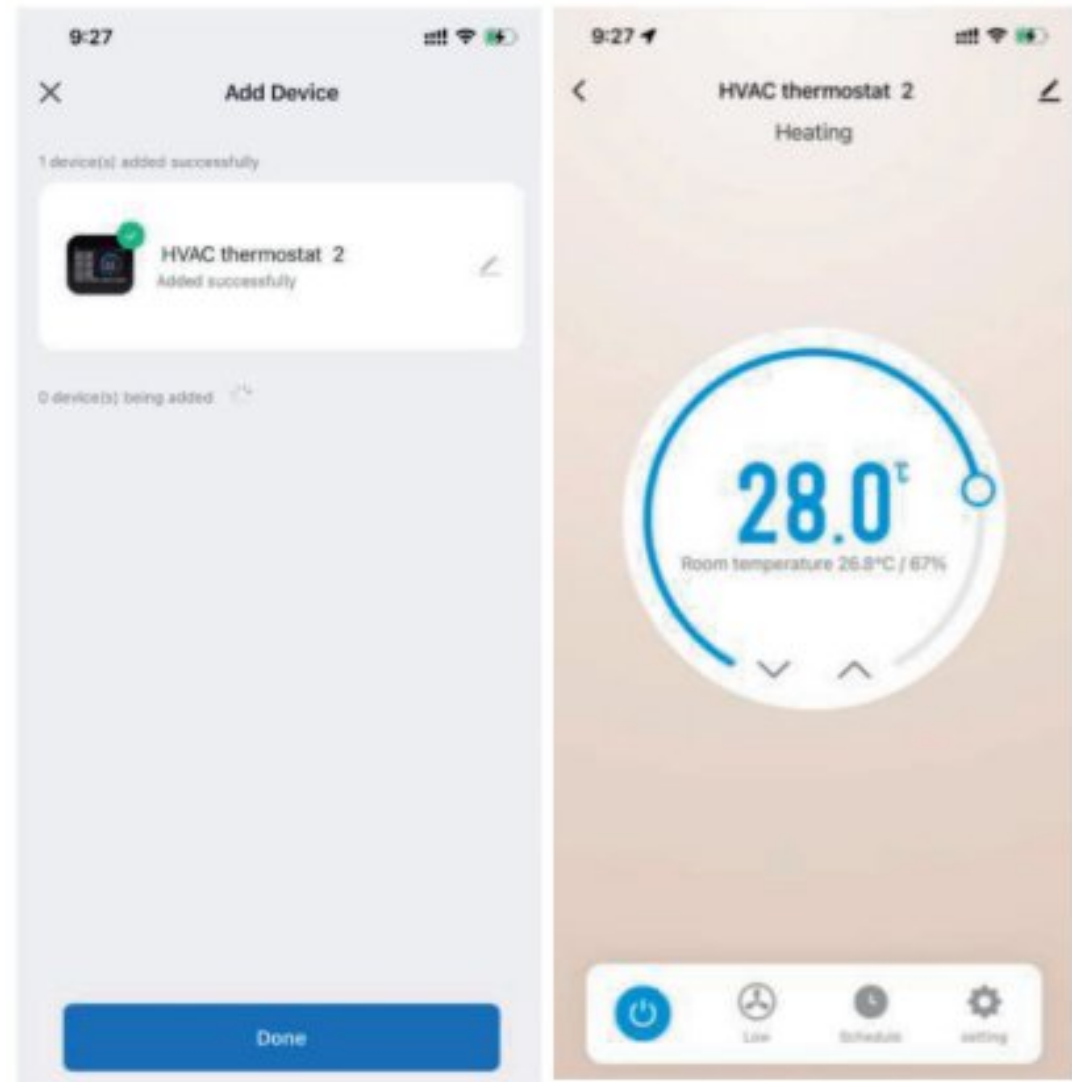
- 1. Press "Add Device" or "+" in the upper right corner of the app
- 2. add the device under the small appliance section
- 3. select the device type "Thermostat WiFi"
- 4. fill in your router's password.



- 5. Clicking the "Confirm the indicator is blinking" Then there are two options. Choose "Blink Quickly" first.



6. The thermostat will automatically appear on the screen.



Main Display Operation

Fan Mode

Press the "Fan" on the Main Display, and change the Fan mode to Auto/ On

System Mode

Press the icon "System" on the home screen, change the system mode from Heat, Cool, Auto, Off

History

Show the Running Time(Hours)/Room Temperature(°C)/Room Humidity(%) of

the environment in the last 7 Days.

- 01 Press the icon and enter Feature Settings
- 02 Press the "03. History & Energy Tariff" option.

There are three options:

- Hrs = show the device running time
- Kw/h= set the unit kw consumption per hour
- \$/Kwh = set the cost of per Kw/h and show the energy cost.

- 03 select what data you need to show on the history chart.
- 04 Press the icon to save and return to main screen.
- 05 Press the icon , History Chart will show your preset related data

Note: The power consumption cost is for reference only, not used for specific payment vouchers.

Holiday

Thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

- 01 Press the "holiday" and enter setting screen.
- 02 Set the year/month/day values under holiday start.
- 03 Set the year/month/day values under holiday end.
- 04 Press the icon to save and return to main display

Please note the Holiday setpoint=the Defrost temperature

Humidity And Temperature



Press the icon to check Temperature and Humidity.

Schedule

- 01 Press the icon → Press " Feature Settings" → press " 05 schedule"

There are four options:

Weekday / weekend, 7Days, 24Hours, None

For example, select 7days. press icon to save and return to main display.

- 02 Press the "schedule" on the main display, Monday to Sunday can be selected to edit.
- 03 Press "Monday", there are six options WAKE/LEAVE/RETURN/SLEEP /TIMER5/TIMER6 (each time period has Enable/Disable options)
- 04 Press the column of "Hour/Minute/Degrees" to set your desired values
For Example: 7(Hour):30(Minute) means WAKE period starts at 07:30am in the morning with temperature setpoint XXF
- 05 Repeat the steps above to set the 6 periods of each day, normally we only set 2 periods(commercial building) or 4 periods(residential building) per day, the Timer5 and Timer6 are only for special use.
- 06 Press the icon to exit and save, repeat the steps above to set each day. Or you can also press "Copy To" to select any date to copy the period setting you just set and press icon to exit and save.

Please note only Morning, Day, Evening, Night can be updated by APP

For example: In the program of Monday:

WAKE: the setting time is 07 (hour): 00 (minute) with temperature 75F
LEAVE: the setting time is 08 (hour): 00 (minute) with temperature is 85F
RETURN: the setting time is 18 (hour):30 (minute) with temperature is 75F
SLEEP: the setting time is 23 (hour):00 (minute) with temperature is 78F
Four time periods will operate as below:

- 07:00-8:00: during this WAKE period the temperature will remain at 75F
- 08:00-18:30: during this LEAVE period the temperature will remain at 85F
- 18:30-23:00: during this RETURN period the temperature will remain at 75F
- 23:00-07:00: during this SLEEP period the temperature will remain at 78F

Configuration Settings

Press the icon → Press icon "Feature settings" to enter the menu	
Hold	Temporary Hold for temperature and time
Language	Select language interface you will use
Date & time	01) Time zone 02) Date& time 03) Daylight saving time(dst)
Display brightness	Ambient light diming
Screen saver	Standby screen 01) Time: 3min, 10min, just night 02) Type: clock, default, Turn off screen
Lock screen	4 number pins
Network settings	01) WIFI setup 02) Pair to app 03) QR code 04) Mac address 05) Modbus Address
Feature settings	If Choose Heat Pump Mode Or If Choose "Standard Heat/Cool" Mode 01) Temperature format F or C 02) Temperature limit 03) History& Energy Tariff 04) Defrost Enable/Disable with desired Temp. 05) Schedule: Weekday/weekend; 7Days; 24Hrs; None 06) Sensor selection: Internal/outdoor sensor 07) Humidity sensor calibration 08) Open Window Function

	09) Filter Reminder 10) Heat Pump Outdoor temp.setting (If Item06 Slect Outdoor Sensor) If Choose Heat Only Mode Or If Choose Cool Only Mode 01) Temperature format F or C 02) Temperature limit 03) History& Energy Tariff 04) Away:Away Temp Setting 05) Defrost Enable/Disable with desired Temp. 06) Schedule: Weekday/weekend; 7Days; 24Hrs; None 07) Sensor selection: Internal/outdoor sensor 08) Humidity sensor calibration 09) Open Window Function 10) Filter Reminder
Installation settings	If Choose Heat pump mode 01) Equipment type: Heat pump standard Heat/Cool Heat Only Cool only 02) Reversing Valve O B 03) Auxiliary None First stage heating for heat pump Humidifier Dehumidifier 04) Compressor restart delay time: 0~15mins 05) Deadband Temperature: 0~12F 06) Switch differential Temperature 0~10F 07) Occupancy Input signal: None Occupy in open-circuit Occupy in short-circuit If Choose Standard Heat/Cool mode 01) Equipment type: Heat pump Standard Heat/Cool Heat Only Cool only 2) Auxiliary None Second stage of heating Humidifier Dehumidifier 3) Fan Option Heat&Cool Cool only 4) Deadband Temperature: 0~12F 5) Switch differential Temperature 0~10F 6) Occupancy Input signal: None Occupy in open-circuit Occupy in short-circuit If Choose Heat only or if Choose Cool only mode 01) Equipment type: Heat pump Standard Heat/Cool Heat Only Cool only 2) Auxiliary None Humidifier Dehumidifier 3) Switch differential Temperature 0~10F 4) Occupancy Input signal: None Occupy in open-circuit Occupy in short-circuit
System information	Version number, QR code
Factory Reset	Reset to factory setting

Operation Of Settings

Hold
The Temperature hold function allows you to manually override the current operating program and set a different temperature for a desired period.
Press icon → Press the "Hold" → Press the first column of "Hold Temp"
→ Use arrow to set the desired Hold Temperature (Temp. Range 41~115F).
Press the Second/Third columns to set Hour/Minute
Press the icon to save and return to main display
You will see "HOLD xx °F", Left":"" displayed on screen.
Clock Setting
Press the icon → Press "Date and Time"
Press each column and use arrow to set Year/Month/Day and time.
If the "Time Sync" option is selected and thermostat connects to internet, it will automatically sync internet time every hour. if you need to change time and

date manually this option must be disable.
Press the icon to save and return to main display
Daylight Saving Time
Press the icon → Press "Date and Time" → Press "03. Daylight Saving Time (DST)" → Enable/Disable Auto DST option
There are three options:
European Union, US & Canada, Australia &New Zealand
Select your local time zone → Press key to save and return to main screen
Display Brightness
Press the icon → Press "Display Brightness"
Ambient Light Dimming is : Automatically adjust the backlight brightness.
Ambient Light Dimming is : Manually adjust the backlight brightness.
Change to desired brightness, press icon to save and return to main menu.
Standby Screen
Press the icon → Press "Screen Saver" → Enable this function
Select the standby type and there are 3 options (3Mins,10Mins, Just Night)
For example, setting the standby time to 3Mins with clock as screen saver, the thermostat will go into screen saver after 3mintues
Press the icon to save and return to main display.
Screen Lock
Press the icon → Press "Lock" → Enable Lock Pin to option →
Press each column to set your pin → Press icon to save and return to main screen.
Use preset password to unlock, If you forget password, the Master PIN is 8657

Temperature Format
Press the icon → Press "Feature settings"
Press "01. Temperature Format" and select C or F as your temperature format
Press the icon twice to save and return to main screen

Temperature Limit
Press the icon → Press "Feature settings"
Press menu "02. Temperature limit" to set the Min& Max temperature range
Press the icon to save and return to main screen

Defrost
The thermostat automatically enters the Defrost Mode when the room temperature drops below the defrost temperature.
Press icon →Press "Feature settings" → Press the "04 Defrost" option→
Enable this function → Use the arrow key to adjust the temperature.
Press the icon to save and return to main screen

Sensor Slection
Press the icon → Press "Feature settings" →Select "06- Sensor selection"
There are two types of sensors, select the internal or outdoor sensor.
The internal sensor is the tempreature built in the thermostat.
The outdoor sensor needs to be wired separately.
Outdoor sensor usage in different modes:

In Heat pump mode:
When used as Sensor for First Stage Auxiliary Heat: When the temperature of external sensor is lower than the temperature of "10 Heat pump outdoor temp.setting", Enable the Auxiliary Heat.
Press the icon → Press "Feature settings" →Select "06- Sensor selection"
There are two types of sensors, select the outdoor sensor→Press icon
Come back to "Feature settings" →Select "10 Heat pump outdoor temp.setting"
→Enable this function → Press up and down icon to change the Temperature.

When used as an External Sensor:
Press the icon → Press "Feature settings" →Select "06- Sensor selection"
There are two types of sensors, select the outdoor sensor
In other mode:
As External Sensor:
Press the icon → Press "Feature settings" →Select "06- Sensor selection"
There are two types of sensors, select the outdoor sensor

Temperature Calibration
Press the icon → Press "Feature settings" →Select "06- Sensor selection"
There are two types of sensors, select the internal or outdoor sensor, and press the words to enter the calibration screen.
Switch Differential
This function is to increase the switching differential temperature of the thermostat. The system default value is 1F, if the desired temperature is set to 76F, the thermostat will start heating at 75F and stop at 76F degrees. If the default value is 2F degree, starts heating at 74F, stop at 76F.

Press the icon → Press "Installation settings" → Enter password1234→
Press "continue" → Find "Switch Difference Temperature" and set the value
➡ **Deadband Temperature**
Deadband temperature only available if the mode is selected to AUTO
The cool mode activates when **Room Temperature-Setpoint Temperature** ≥Swtich Diff+Deadband Temperature/2
The heat mode activates when **Setpoint Temperature-Room Temperature** ≥Swtich Diff+Deadband Temperature/2

Reset To Factory Settings
Press the icon → Press ""
Press the Keys to Exit.
Warning: Reset function will delete all your pre-settings and return to the factory default settings

Installation Manual
HVAC System Compatibility

Designed to operate with low-voltage heating and cooling systems. It is not designed for use with line-voltage. This thermostat supports:

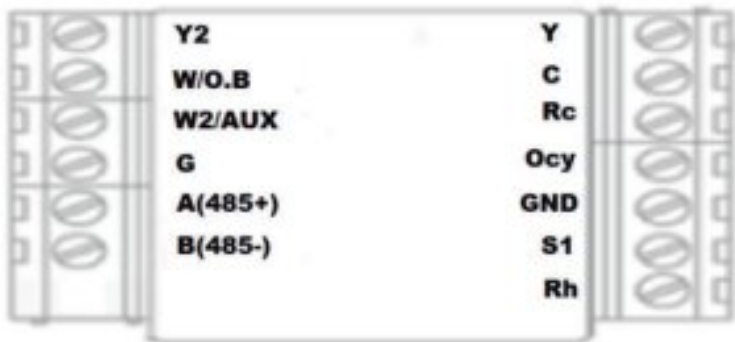
Up to 2 heat and 2 cool stages on conventional system.
Up to 3 heat and 2 cool stages on heat pump system.

Equipment	Supported?
Gas/Oil/Electric heating (up to two stages)	Yes
Standard electric cooling (up to two stages)	Yes
Traditional AC (up to two stages)	Yes
Heat pump with auxiliary heat (up to three stages)	Yes
Dual fuel systems	Yes
Boilers	Yes
1 remote sensor (10K resistive temperature)	Yes
1 dry contact for Occupy input	Yes

Specification

Dimensions	3.77" H * 3.38" W * 1.24"D
Display Resolution	480*320
Display Size	2.89"Height * 1.93" Width
WIFI	802.11 b/g/n (2.4G)
TOUCH	Capacitive
Input Voltage	24VAC, 50/60 Hz
Relay Rating	24VAC @ 1Amp maximum per relay
Operating Temperature	32° F to 150° F
Operating	RH 0% – 90% (non-condensing)
Storage Temperature	32° F to 150° F
Temperature Sensors	10K NTC type 2
Control Range	41° F to 122° F

Terminal Descriptions



- RC** 24 VAC Cool
- RH** 24 VAC Heat
- C** 24 VAC Common
- Y1** First stage of cooling or first stage heat pump
- Y2** Second stage of cooling or second stage heat pump
- W/O.B** W: First stage of conventional heating
O.B: Heat pump reversing valve (supports both O type and B type)
- W2/Aux** W2: Second stage of conventional heating
Aux: Auxiliary Heat, humidifier, dehumidifier, or ventilator
- G** Fan
- S1** Outdoor air sensor
- GND** Ground
- Ocy** Occupy input (the setback temperature will be 6F higher in cool mode, 6F lower in heat mode)
- A** Modbus RS485+;
- B** Modbus RS485-

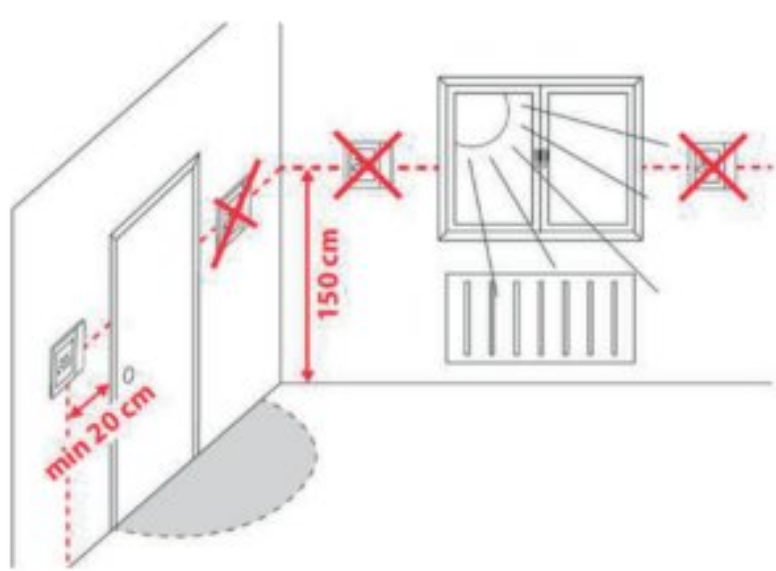
Note: If you have only R wire, please connect to RC only.

Wiring Requirements
The following table shows the maximum wire lengths allowed:
Thermostat to HVAC Equipment
18 AWG 20 AWG 22 AWG
128 ft/380 m 80 ft/240 m 50 ft/150 m

Installation
Thermostat Location

The room thermostat should be located where the air temperature can be sensed as accurately as possible, without getting adversely affected by direct solar radiation or other heat or refrigeration sources.
Mounting height is about 1.5 m above the floor

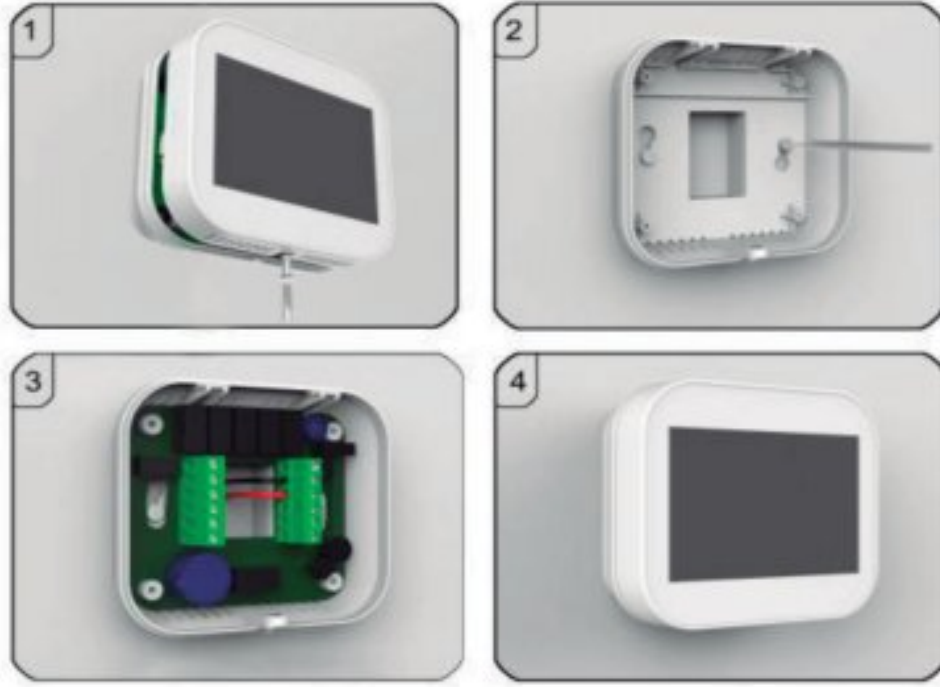
Installation
Step 1. Power Off
Disconnect the power to thermostat and heating/ air conditioning equipment
Step 2. Remove Existing Thermostat
Disconnect the wires to the existing thermostat and remove it from the wall
Step 3. Install New Thermostat Base Plate
The ideal location for the thermostat is approximately 5 ft (1.5 m) above floor level in the main living area.
Do not mount on a wall in niches or bookshelves, behind curtains, above or near heat sources.



Devices must be mounted on clean, dry indoor place without direct airflow from a heating / cooling device, and not be exposed to dripping or splashing
Ensure that wiring, protection and earthing comply with local regulations

To install the thermostat:

- 01 Loosen the screw at the bottom and remove the faceplate. Do not attempt to remove the screw completely
- 02 Place the thermostat backplate on the wall.
- 03 Fasten the backplate to the wall using the screws provided (or other suitable screws).



Step 4. Connect The Wiring

Note: if you have two transformers, please cut off the jumper between RC and RH

- 01 Check the wiring diagrams below
- 02 Find the right one to match your HVAC equipment
- 03 Make the wiring correctly according to the diagram



- 04 Put the front part of the casing back to the backplate and make sure the pins are properly positioned. Push the front of the casing and tight the screw

Step 5. Power On

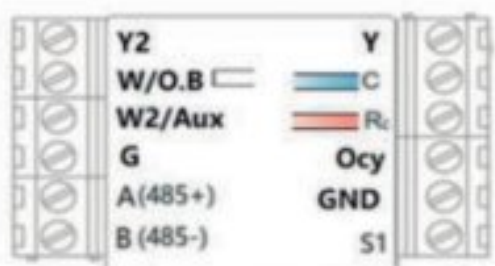
Power to the heating and air conditioning equipment and thermostat

Step 6. Setup System Installation

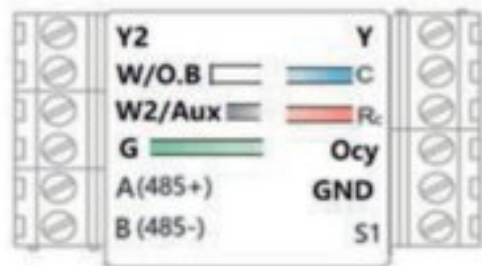
Entering the Installer setup Menu

Press the icon on the main screen→ Press "Feature Setting" →Press "Installation Settings" → Press the "Re-Install" → input the password 1234→ Press the "Continue" icon→ Select the right system make the settings→ Press "Next" key on the bottom of screen to finish all settings.

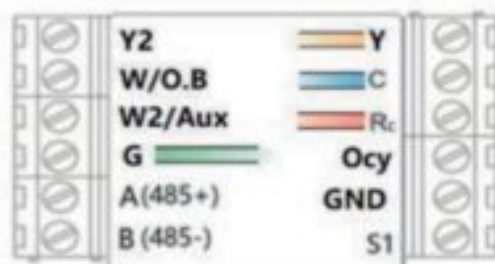
Wiring Diagram



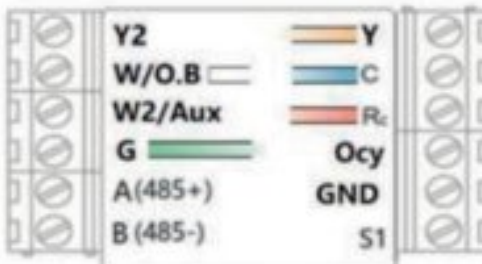
Conventional 1 Heat (3 wire)



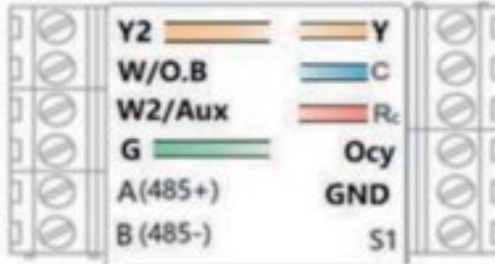
Conventional 2 Heat with Fan



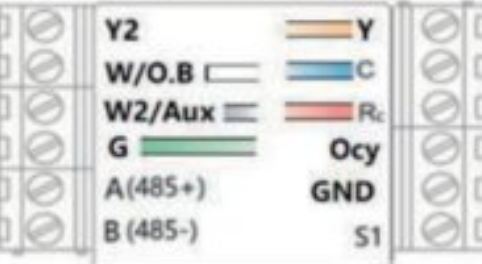
Conventional 1 Cool



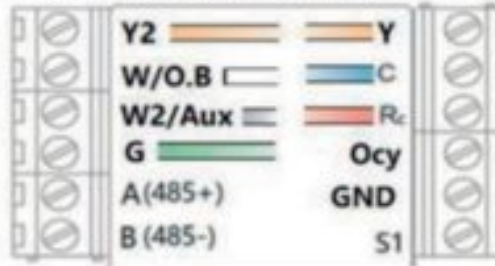
Conventional 1 Heat and 1 Cool



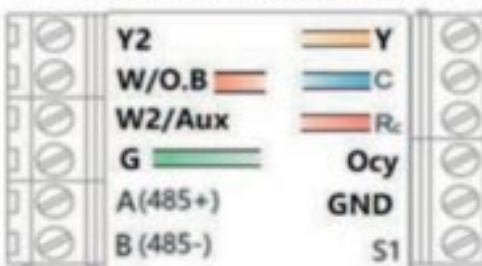
Conventional AC 2 Cool



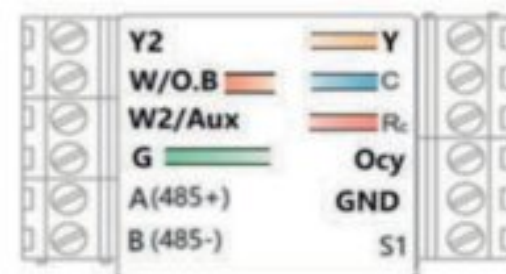
Conventional 2 Heat and 1 Cool



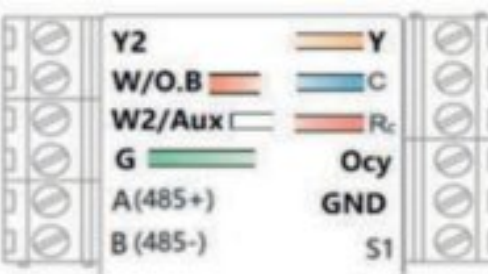
Conventional 2 Heat and 2 Cool



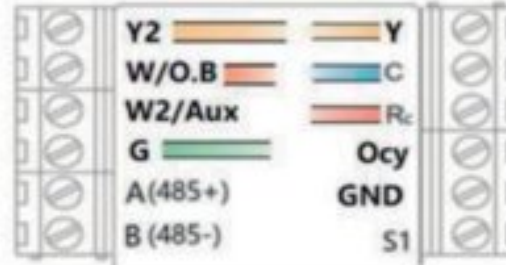
Conventional 1 Heat and 1 Cool with dual transformers



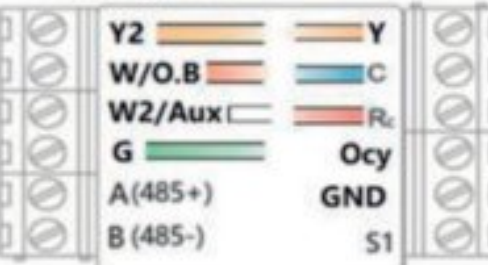
Single Stage Heat Pump



Single Stage Heat Pump with Auxiliary heat

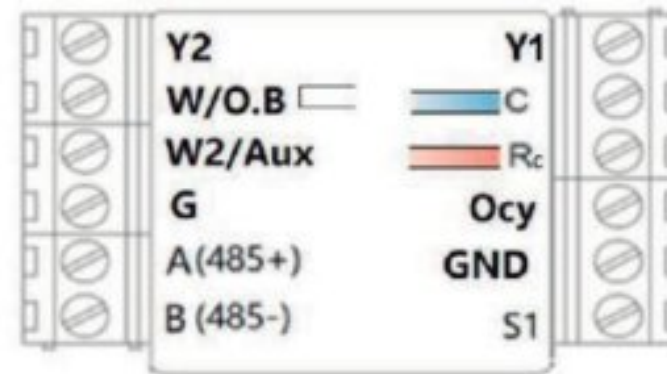
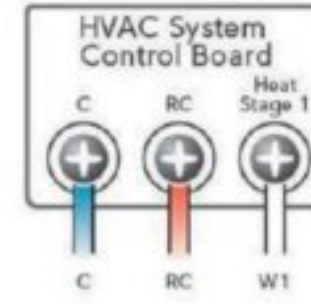


Double Stage Heat Pump

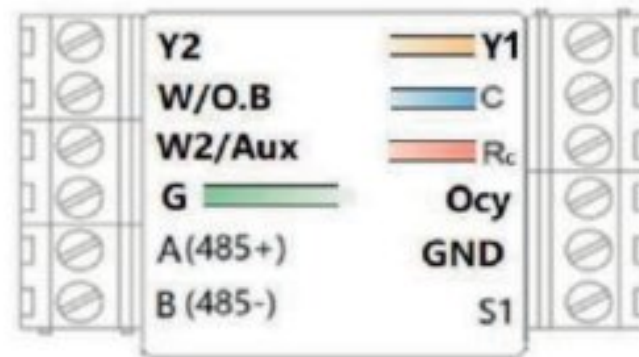
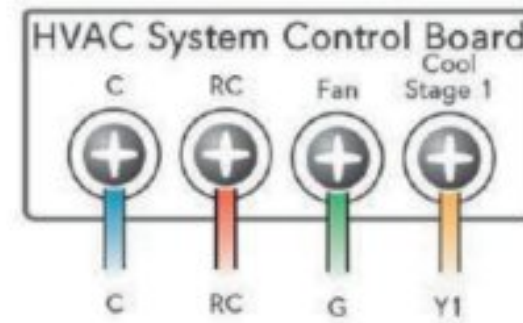


Double Stage Heat Pump with Auxiliary heat

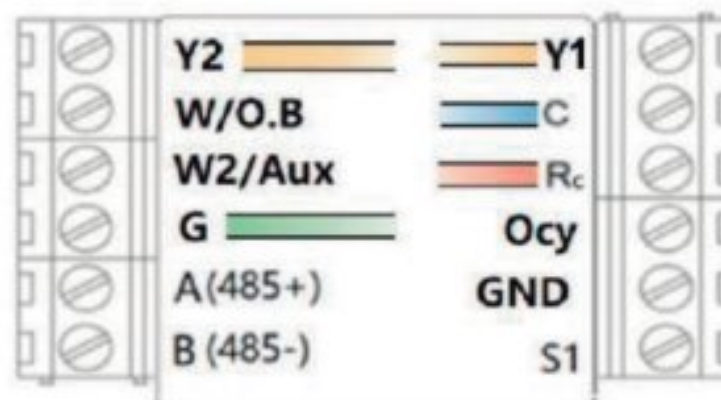
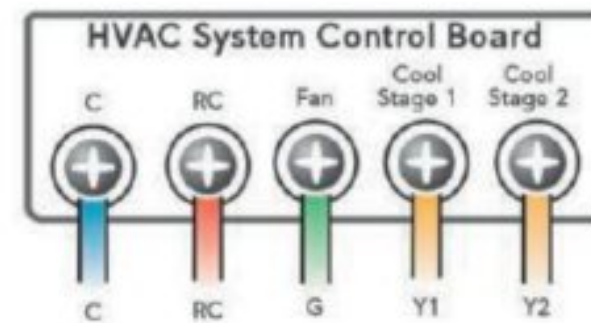
Traditional Heat



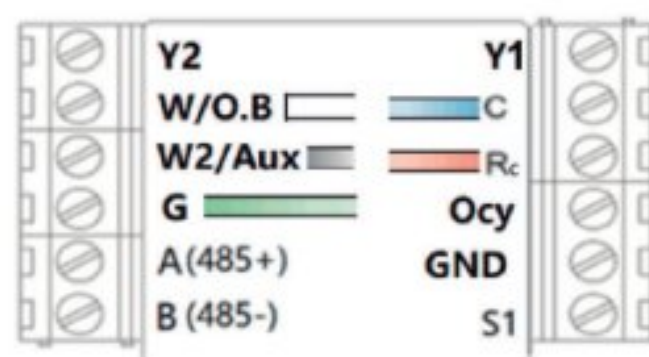
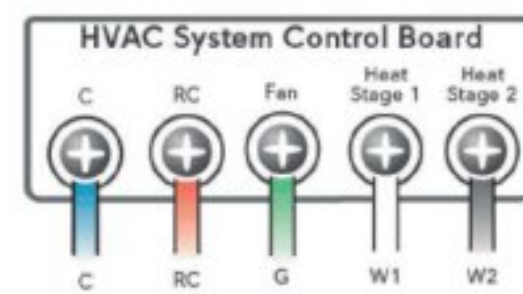
Traditional AC



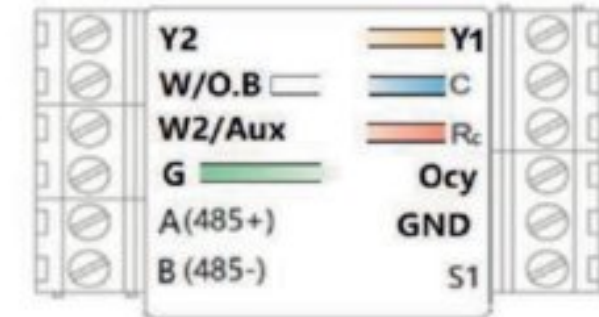
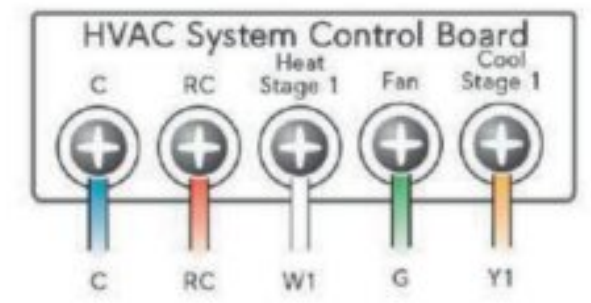
Dual-Stage AC



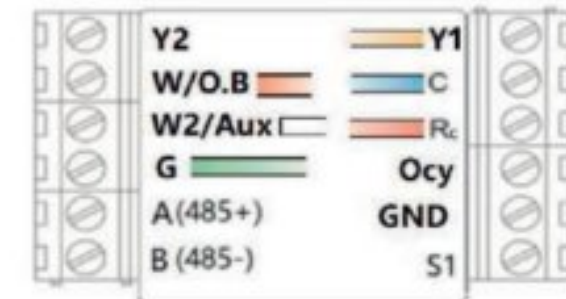
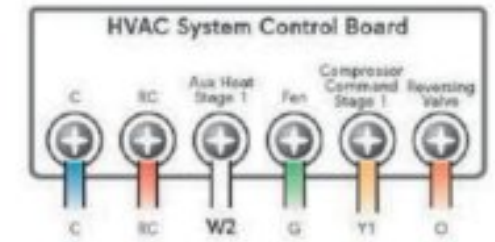
Dual Stage Heat



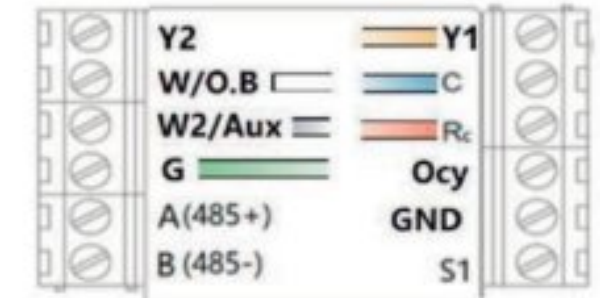
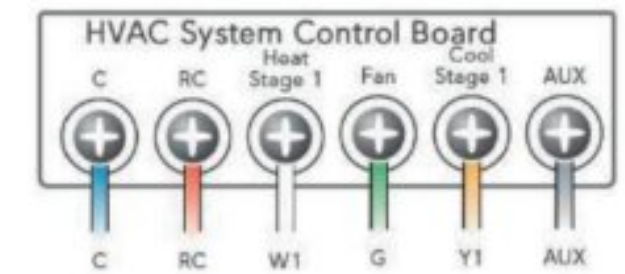
Traditional AC and Heat



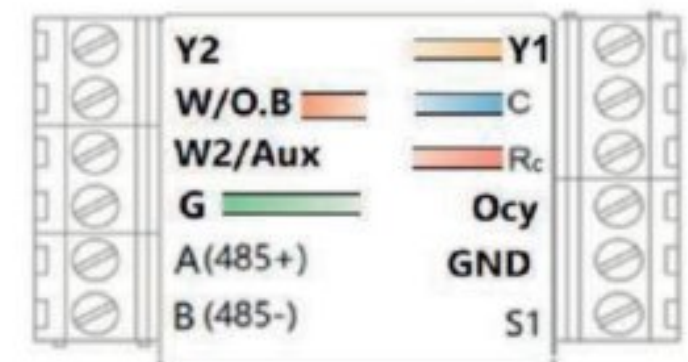
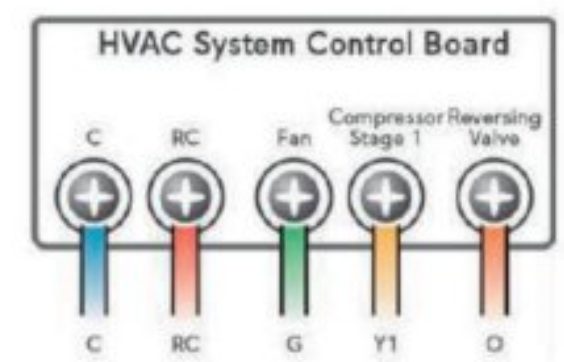
One Stage Heat Pump with One Stage Auxiliary Heat



Furnace-Powered Auxiliary Device



Heat Pump



Dual-Stage Heat Pump

