

T18UTW-7-WIFI

INSTALLATION MANUAL



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T18UTW-7-WIFI

SASWELL CONTROL
www.saswell.com



Android



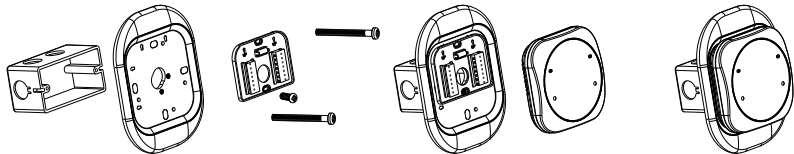
IOS

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THERMOSTAT INSTALLATION



Fasten the mounting back plate and mounting plate to the mounting box and tighten the screws

After fastening and installing the back plate and the mounting plate, snap into the display part

The installation is complete

STEP1

Power off your Heating , Ventilation , and Air Conditioning(HVAC) system by using the master switch or circuit breaker box. **This is important for your safety.**

STEP2

Confirm your system is off by turning on your heat(during winter)or your AC(during summer).Wait a few minutes-you should not feel air coming from your vents.

STEP3

Remove your old thermostat cover from the wall.

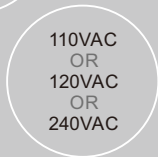
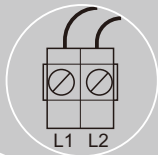


TIPS:

- 1.Look for your master switch or circuit breaker box in the basement,attic,utility close,or behind a wall panel near the thermostat.
- 2.If you have a boiler,check to see that the main flame is extinguished.
- 3.Many thermostat simply pop off or unclip from the base,while others may have screws that you will need to remove.

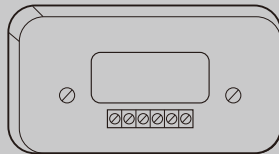
✓ CHECKPOINT:COMPATIBILITY

Does your old thermostat's backplate have any of these indicators?



YES

Sadly, you might not be compatible. you can double-check at compatibility.

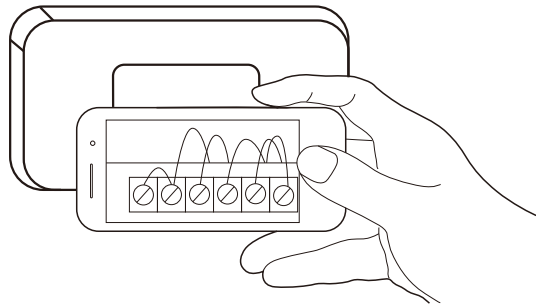


NO

Great, please continue to the **NEXT PAGE**.

STEP4

Take a picture of the wires connected to the terminals of your old thermostat. you may need to reference this photo later on.

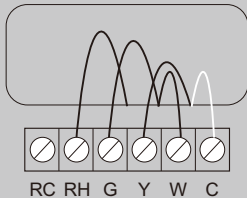


✓ CHECKPOINT: C WIRE

Do you have a C wire connected to your old thermostat?

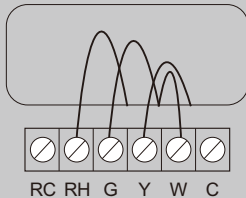
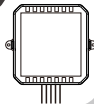
YES

Great, please continue to the **NEXT PAGE**.



NO

Go to install with a ECM.



TIPS:

The wiring on your old thermostat may look different, just check to see if there's a C wire.

FCC Radiation Exposure Statement:



FCC ID:2A0IFT18UTW

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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.

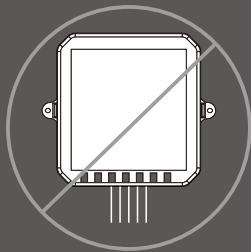
NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Install your thermostat with a C wire

If you have a C wire, it will power your thermostat. you won't need the Electric Control Module included in the box.

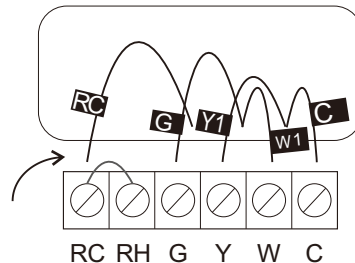


TIPS:

TO install accessories(humidifier,dehumidifier or ventilator)please refer to the wiring diagrams at wiring.

STEP5

Carefully disconnect and label the wires from your old thermostat one at a time, using the labels provided.

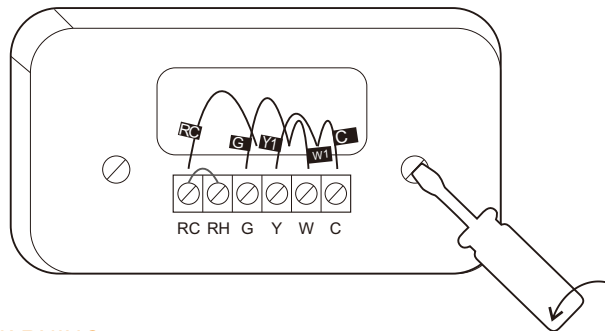


TIPS:

If you have a jumper between RC, RH, OR R, leave it alone. Only label the wires that run from your wall into a terminal block.

STEP6

Unscrew the mounting plate of your old thermostat to remove it from the wall.



⚠ WARNING:

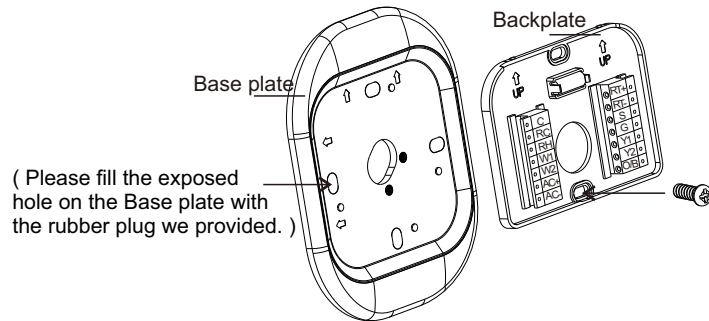
Be careful, as some thermostat may contain mercury.
Recycle your old thermostat safely with your local hazardous waste facility.

STEP7

Decide if you want to use the Base plate with your thermostat.

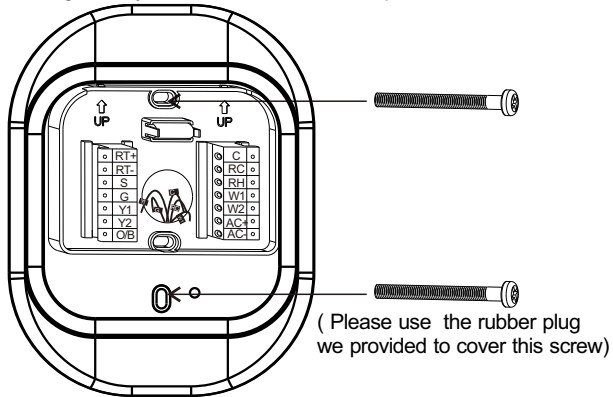
The Base plate is useful if you want to hide marks or holes left on the wall by your old thermostat.

If using the Base plate, align the mounting holes on the Base plate and backplate and press them into place together.



STEP8

Pull the wires through the hole in the middle of the backplate and then attach the backplate to the wall using the drywall anchors and screws provided.



TIPS:

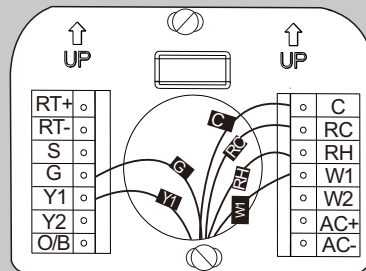
Use a 3/16" drill a hole for the drywall anchors.

✓ CHECKPOINT: INSERT YOUR R WIRE(S)

Do you have more than one R wire?
(That includes R, RC, and RH)

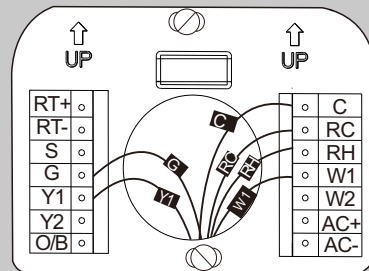
YES

Insert your wires:
R or RC → RC
RH → RH



NO

Insert your single wire:
R, RC, or RH → RC

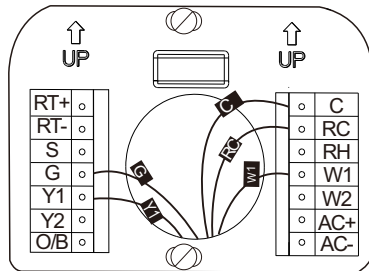


STEP9

Insert your remaining wires into the side (not the front) of their corresponding terminal blocks.

STEP10

Tug on the wire gently to ensure they are securely connected.

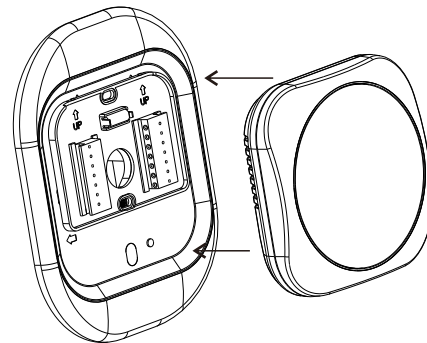


TIPS:

1. Press the terminal block levers to insert the wires more easily.
2. When a wire has been connected correctly, the level on the block will lower.

STEP11

Gently press your thermostat into the backplate until it “clicks” into place.



TIPS:

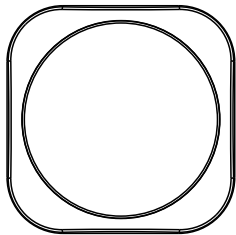
If the thermostat “rocks” or is not flush with the wall, be sure the excess wires are pushed all the way into the wall.

STEP12

Turn the power to your HVAC system back on using the master switch or at the circuit breaker box.

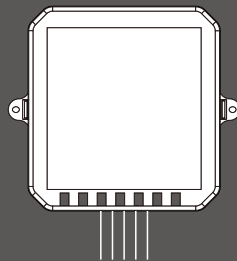
Congratulations, you did it!

Say hi to your new thermostat! To complete your setup and registrations, follow the instructions on your thermostat screen.



Install your thermostat without a C wire

If you don't have a C wire, you will need to use the Electric Control Module included to reliably power your thermostat.

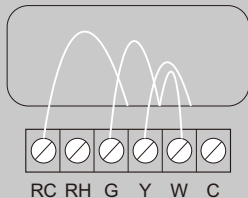


✓ CHECKPOINT: 3 OR 4 WIRES

The Electric Control Module requires your system to have either of the following: 4 wires W1, Y1, G, and R (or RC or RH)
Do you have these wires?

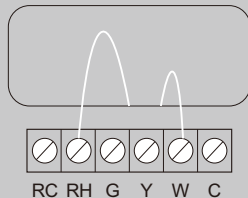
YES

Great, please continue to the **NEXT PAGE**.
The Electric Control Module will work with your system!



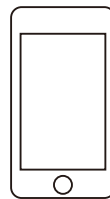
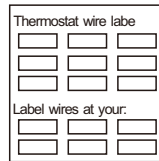
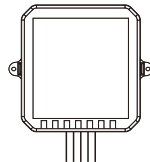
NO

Please check compatibility or contact us!



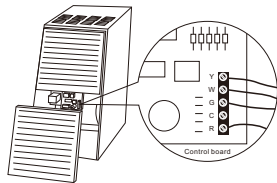
STEP5

Take your Electric Control Module, wire labels, tools, your smart-phone, and go to your HVAC system.



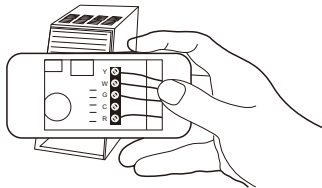
STEP6

Open your HVAC system's cover to reveal at control board.



STEP7

Take a picture of the wires connected to your control board. You may need to reference this photo later on.

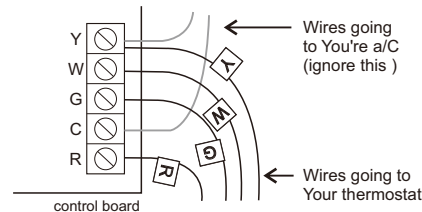


⚠ WARNING:

HVAC system contain high voltage wires. Use caution when working with the control board. If you'd rather leave it up to a professional.

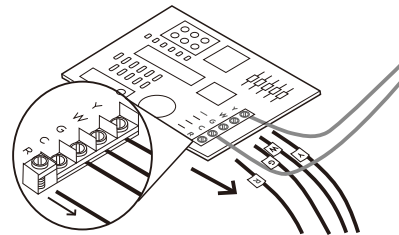
STEP8

Label only the R,Y,or Y1,G,and W or W1 wires with the matching labels provided. If you have more than one wire going into these terminals, only label those going to your thermostat.



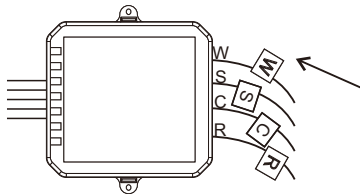
STEP9

Disconnect the wires labeled R,Y,G,and W from the control board.



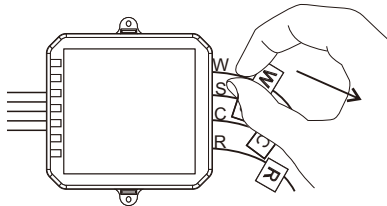
STEP10

Connect the wires you disconnected from the control board into their matching gray terminal blocks on the Electric Control Module .



STEP11

Tug on the wires gently to ensure they are securely connected.

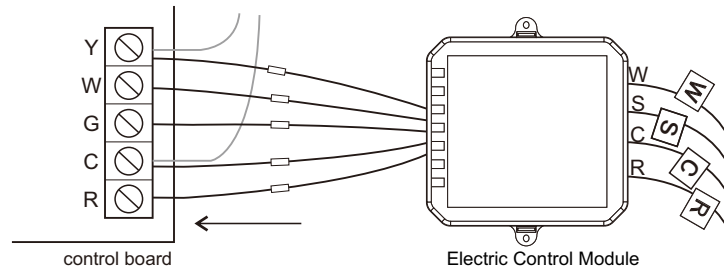


TIPS:

1. Insert the wires more easily.
2. When a wire has been connected correctly ,tight screw to ensure the wiring.

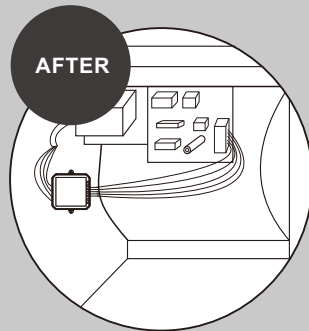
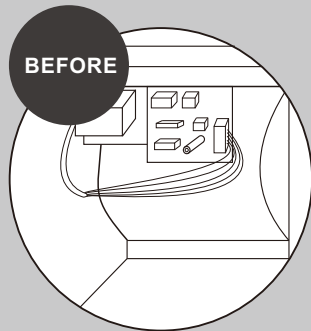
STEP12

Connect the five wires coming out of your Electric Control Module to their corresponding terminals on the control board .



✓ CHECKPOINT: Electric Control Module

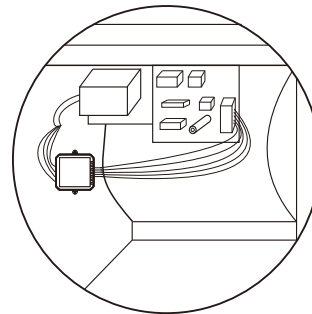
Check that you have installed the Electric Control Module correctly. It should be installed between your thermostat wiring and your control board.



STEP13

Mount the Electric Control Module inside your HVAC system, taking care not to strain the wires.

Close the HVAC cover panel securely return to your thermostat.



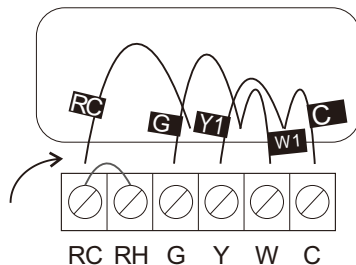
💡 TIPS:

Make sure your HVAC panel is fully closed .Some systems will not turn on if the cover panel has not been closed properly.

STEP14

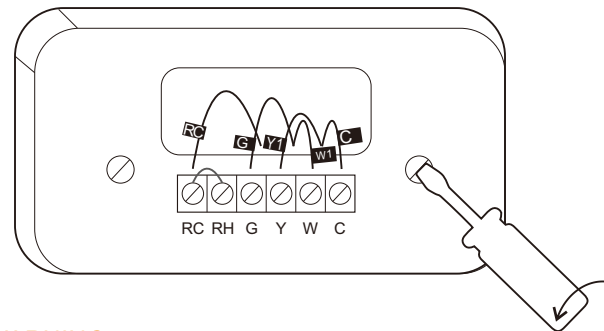
Back at your thermostat:

Carefully disconnect and label the wires from your old thermostat one at a time, using the labels provided. If you have a jumper between RC,RH,or R leave it alone. Only label the wires that run from your wall into a terminal block.



STEP15

Unscrew the mounting plate of your old thermostat to remove it from the wall.



WARNING:

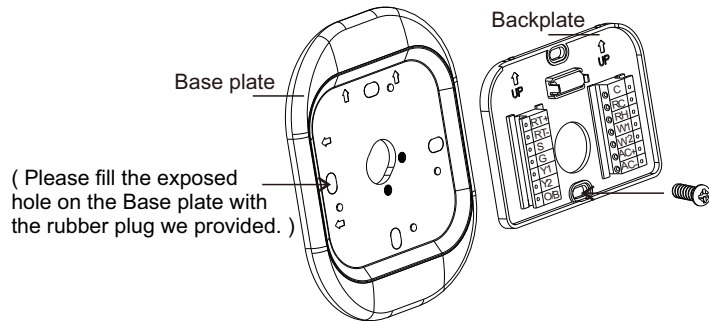
Be careful, as some thermostat may contain mercury.
Recycle your old thermostat safely with your local hazardous waste facility.

STEP16

Decide if you want to use the Base plate with your thermostat.

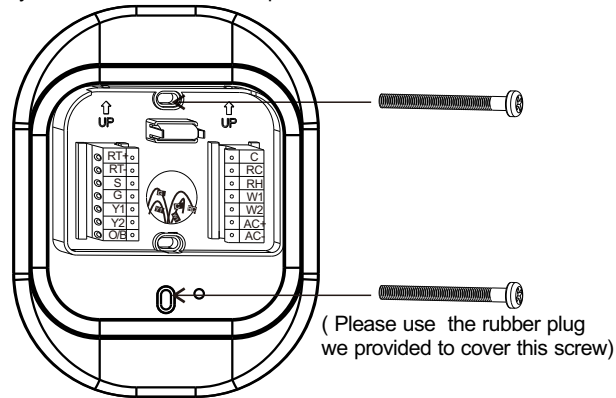
The Base plate is useful if you want to hide marks or holes left on the wall by your old thermostat.

If using the Base plate, align the mounting holes on the Base plate and backplate and press them into place together.



STEP17

Pull the wires through the hole in the middle of the backplate and then attach it to the wall using the drywall anchors and screws provided.



TIPS:

Use a 3/16" drill a hole for the drywall anchors.

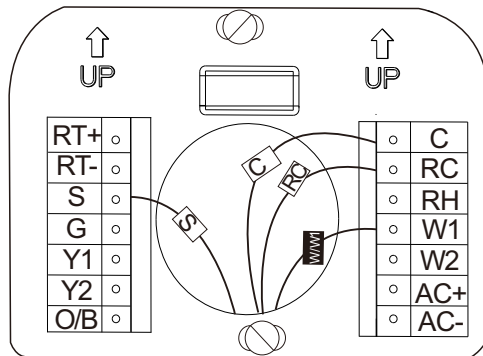
STEP18

Remove the RC,C and S labels from the label sheet and attach them to the wires as shown below:

R/RC/RH→RC

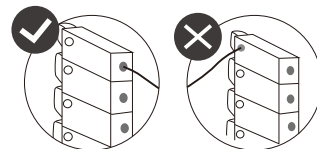
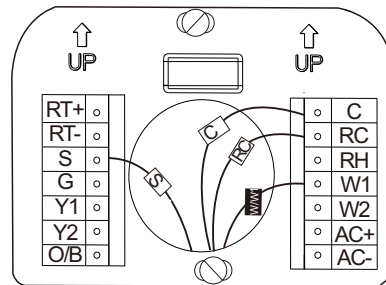
G→C

Y→S



STEP19

First, connect these 3 wires as show: RC,C,S. Then connect any remaining wires to their corresponding terminal.

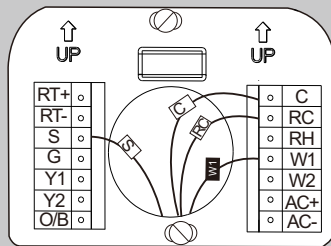


TIPS:

1. Press the terminal block levers to insert the wires more easily.
2. When a wire has been connected correctly, the level on the block will lower.

✓ CHECKPOINT: DON'T SKIP AHEAD

Did you connect the correct wires to the RC,C,and S terminals, as shown below?



YES

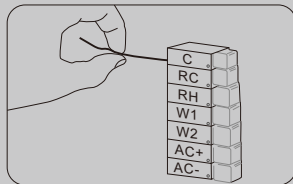
Please continue to the
NEXT PAGE.

NO

Please ensure that your
wiring is as shown above

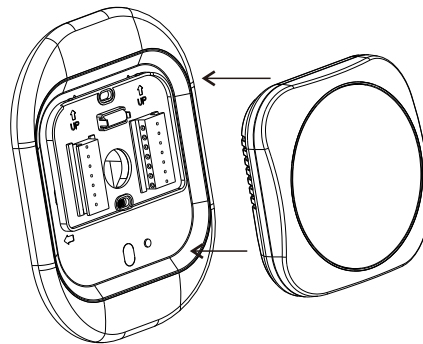
STEP20

Tug on the wire gently to ensure they are securely connected.



STEP21

Gently press your thermostat into the backplate until it “clicks” into place.

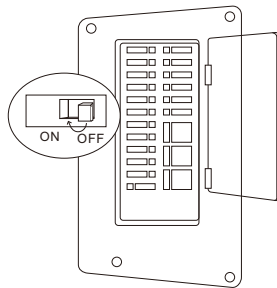
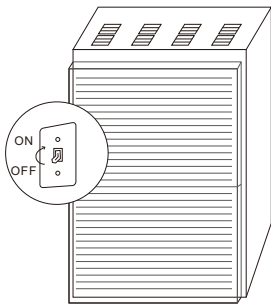


TIPS:

If the thermostat “rocks” or is not flush with the wall, be sure the excess wires are pushed all the way into the wall.

STEP22

Turn the power to your HVAC system back on using the master switch or at the circuit breaker box.



Accessory

1. Optional sensor (Terminal RT+, RT-, PIR sensor)
2. AC+, AC-

Wiring must comply with applicable codes, ordinances and regulations.

1. Wire the NTK100 Outdoor Sensor to the RT+/RT- terminals on the thermostat. If the lead wire provided with the NTC-100K is not long enough, run cable to a hole at the selected NTC-10K location. Color-coded, 18-gauge thermostat wire is recommended. For an example of general wiring of the NTC-100K, see Fig .2. Pigtail wiring can be used.
2. Mount the NTC-100K in its mounting clip.
3. Plug wiring hole using nonhardening caulk or putty.

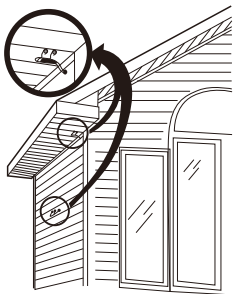
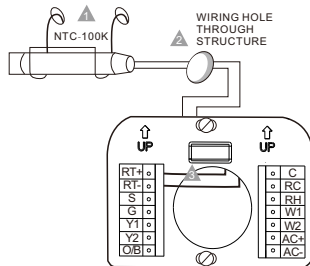


Fig.1. Typical locations for outdoor sensor.



- ▲ Use appropriate mounting means for the type of structure.
- ▲ Plug wiring hole with non-hardening caulk or putty.
- ▲ RT+/RT- terminal location varies with model.

Fig. 2. Wiring diagram for the NTC-100K Outdoor Sensor to the thermostat.

Optional sensor



SASWELL NTC 100K Room Sensor
With 3 Meter Wiring

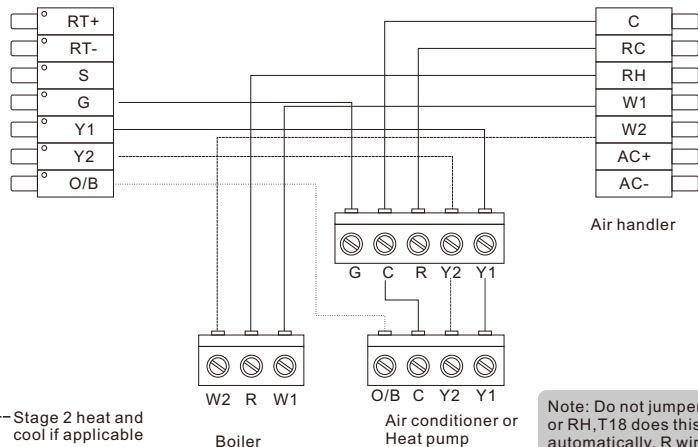
*Used for outdoor temperature detection
when there is water pump protection.



SASWELL Wireless Room Sensor

*Used for detecting human activities.
(refer to PIR sensor manual)

Boiler or radiant system with air handler and conventional cooling or heat pump.



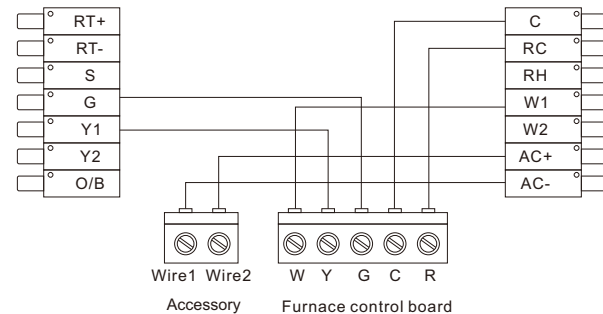
Note: Do not jumper RC or RH, T18 does this automatically, R wire need to go into the RC terminal on your T18.

Accessory devices

The T18 can control an accessory HVAC device like a humidifier, dehumidifier, or ventilation device from its AC terminals.

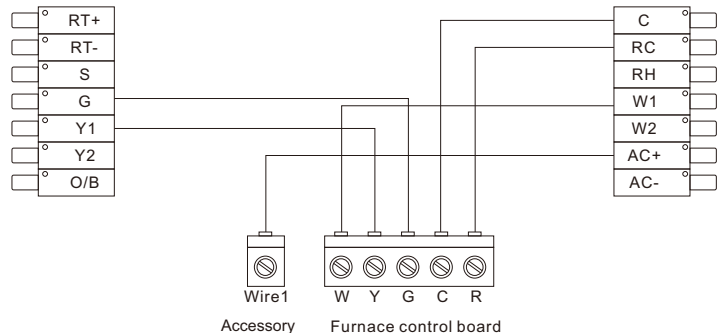
Note: You will need to configure the accessory device when you first power on your T18.

2-wire accessory (humidifier/dehumidifier/ventilator)



1-wire accesory

(humidifier/dehumidifier/ventilator)

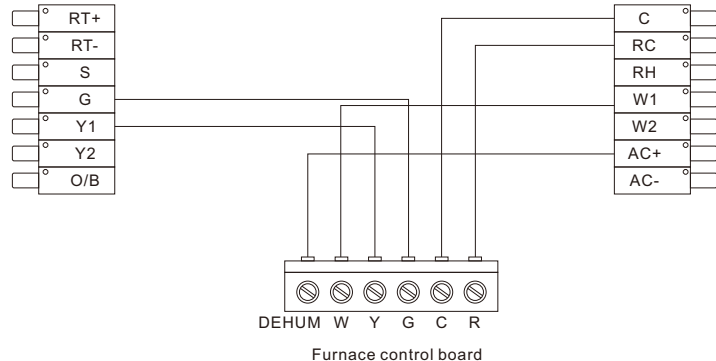


T18 automatically connects Rc to AC- when 1-wire configuration is selected during accessory setup.



Warning: Damage may occur if accessory is connected to AC-

1-wire Integrated dehumidifier

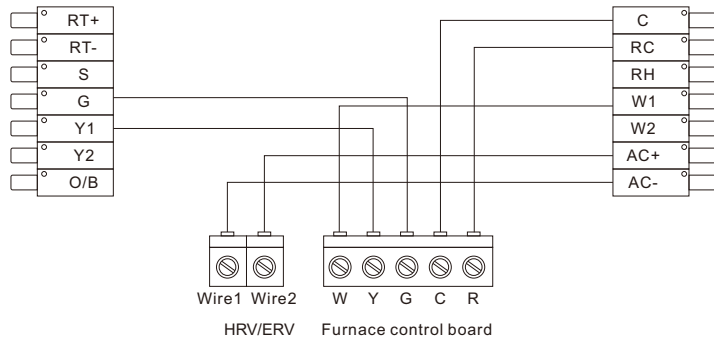


T18 automatically connects RC to AC- when 1-wire configuration is selected during accessory setup.



Warning: Damage may occur if accessory is connected to AC-

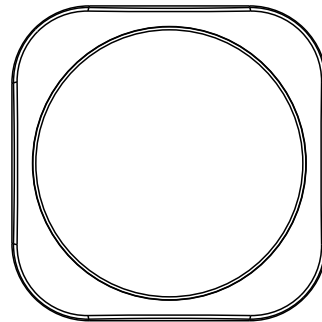
HRV/ERV



Note: To determine which wires from your ERV/HRV need to be connected to the AC+/AC- terminal on your T18, You need follow the product prompts to choose 1-wire or 2-wire.

Congratulations, you did it!

Say hi to your new thermostat! To complete your setup and registrations, follow the instructions on your thermostat screen.



LINK APP



*Download the app
“Saswell Smart”



Saswell
Smart

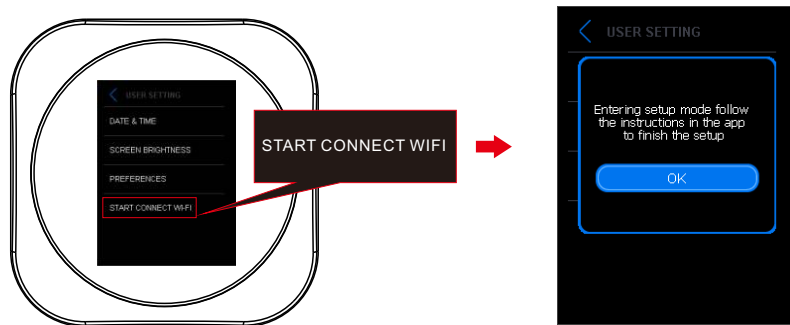
Items needed for Wi-Fi connection:

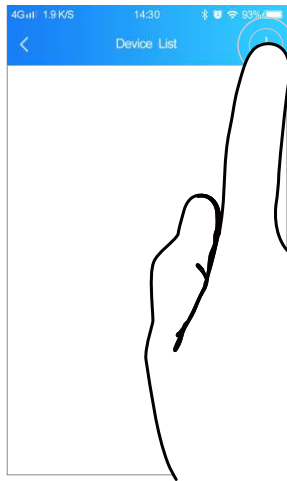
- The homeowners compatible iOS or Android
- Device with the SASWELL SMART app installed and registered
- Your customer's Wi-Fi network name (SSID) and password

How do I connect Alexa and WiFi ?

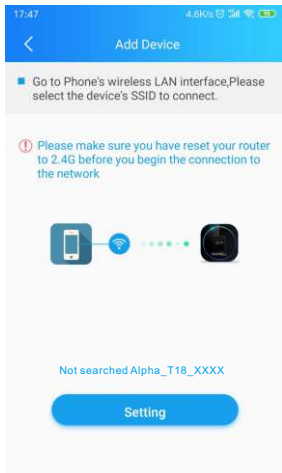
Please refer to the following steps at T18 that will help you.

T18: “MEUN” > “USER SETTINGS” > “START CONNECT WIFI” > “OK”

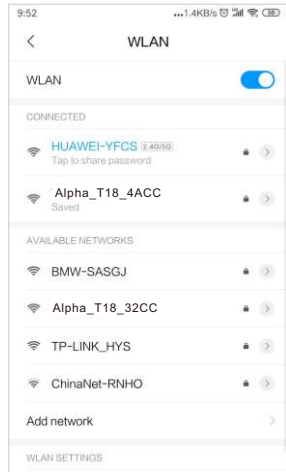




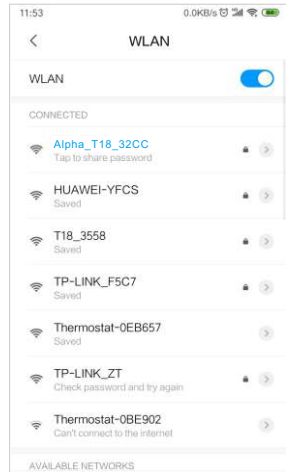
- ① Enter the app, Click the "+" in the upper right corner .



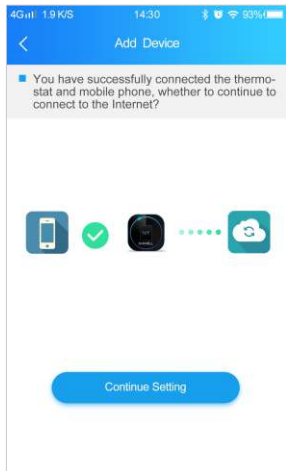
- ② Add Device, Click "setting"



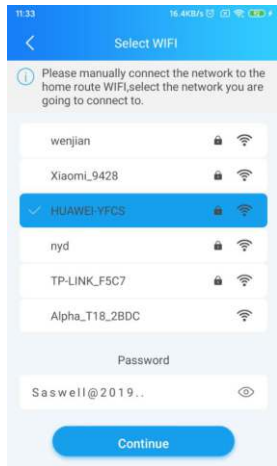
- ③ You must have your customer's Wi-Fi Network (SSID) and Password, complete the wireless setup.



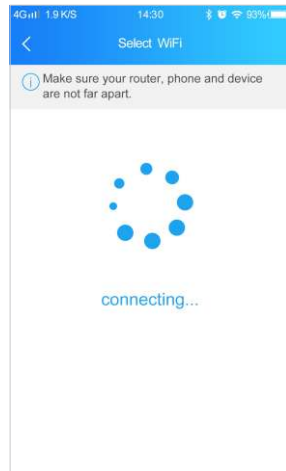
- ④ Select "SSID"code. (SSID is on the back of product)



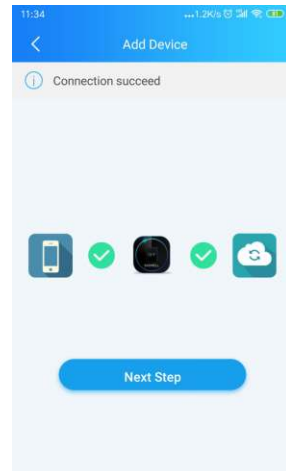
- 5 Once the thermostat is connected to Wi-Fi, back SASWELL SMART app, selecting "continue Setting" from the drop down menu.



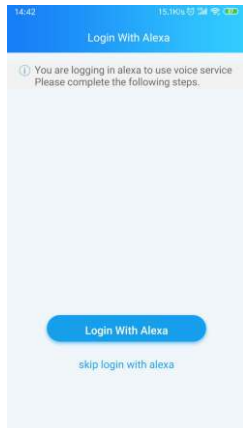
- 6 Select your home WiFi account and enter your password, And then selecting "Continue".



- 7 Please wait patiently.



- 8 Show "Connection succeed" And then selecting "Next Step" Tip (If the connection fails, please try again and enter the correct WiFi password) .



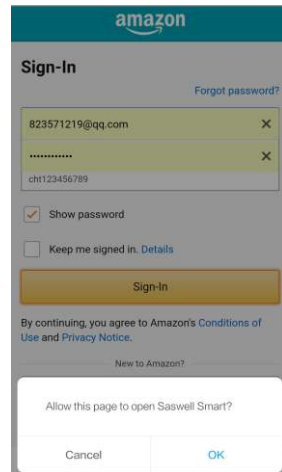
9 Click "login with alexa"



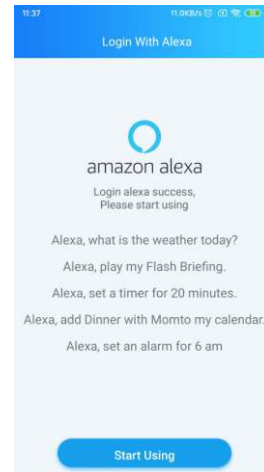
10 Click "Get Started"



11 Enter alexa In your phone's browser, enter your account and password, and then click sign-in. The first login page is as follows.



12 Log on to your amazon account, Then select "OK", enter to "Saswell Smart" app page.



13 Login alexa success, please start using.

If login alexa failed, try to click "Login With Alexa" or "skip login with alexa".

- * If click "Login With Alexa", continue to step 11 and step 12 on the page of 49, 50.
- * If click "skip login with alexa", Please refer to the following steps.

