sinopé

Smart thermostat

HVAC

Installation and configuration guide

TH6250WF

Wi Fi® CERTIFIED

Table of contents

Included in the box

Inside the box, you will find:

TH6250WF thermostat

Mounting plate
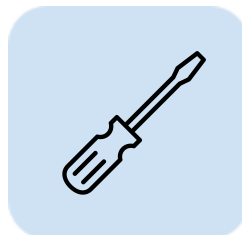
2x screws
2x anchors

Welcome guide

Installation requirements

- Flathead or Phillips screwdriver for wall installation of the mounting plate - Phillips #2/slot M7.0

- Optional for easier setup:
    - → Wi-Fi connection
    - → Smartphone or tablet
    - → Neviweb account

Connections

Connection	Description
C	24 Vac common power supply
R	24 Vac power supply from the heat pump
G	Circulation fan
W	First stage of heating or first stage of auxiliary heating
O/B	Reversing valve
Y	First stage of the heat pump or air conditioner
ACC	Connection for accessories. Used to connect additional accessories or external equipment
IN	Dual-Energy input

System compatibility

#	Output / Input	C	R	G	W	O/B	Y	ACC	IN
Conventional system									
1	1H	X	X		X				
2	1H	X	X	X	X				
3	1C	X	X	X			x		
4	1H1C	X	X	X	X		x		
Heat Pump									
5	1H1C	X	X	X		X	X		
6	2H1C	X	X	X	X	X	X		
Additional system									
7	Dual-energy								X
8	Acc. Humidifier							X	

Installation and configuration

Recommendations

It is highly recommended that you hire a qualified professional to ensure the safe and effective installation of the HVAC thermostat. Installing these components requires technical expertise and a thorough understanding of the applicable standards in your region.

- **Hire a qualified professional to install the HVAC system.**
- **Ensure system compatibility:** Before any installation, check that the components to be installed are compatible with your existing HVAC system. If in doubt, consult a professional for appropriate advice.
- **Follow applicable standards:** Ensure the installation complies with electrical and plumbing codes and regulations.

By following these recommendations and avoiding potential risks, you can ensure the safe and efficient installation of the HVAC thermostat to your system. For your safety and those around you, hire a qualified professional.

Installation - Smart Wi-Fi thermostat TH6250WF

This thermostat must be installed by a certified electrician and comply with the national and local electrical codes and regulations.

1 **Switch off the power supply.**
Before installing the thermostat, make sure that the breakers for your heating system are off at the electrical panel to avoid any risk of electric shock.
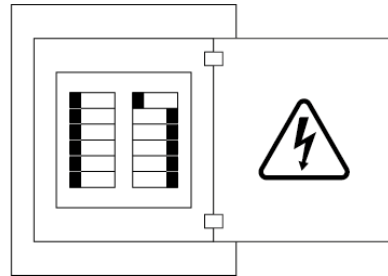
2 **Remove the cover of your old thermostat.**
Some covers can be removed by hand, while others may need to be unscrewed.
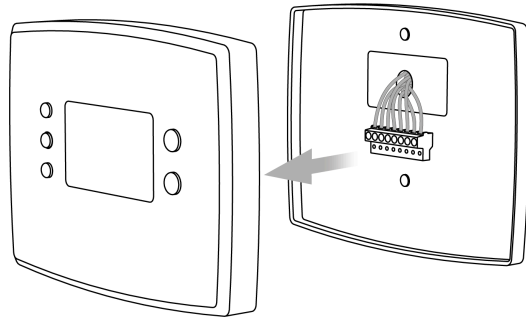
Warning

Check your system's compatibility

If your old thermostat has a label of 120V or 240V or thick wires with connection caps, it is a high-voltage system. Your system is not compatible with the TH6250WF thermostat.

3 **Take a photo of the wiring of your old thermostat.**
This photo can be handy when installing your new thermostat.

4 **Disconnect the wires and remove the base**.
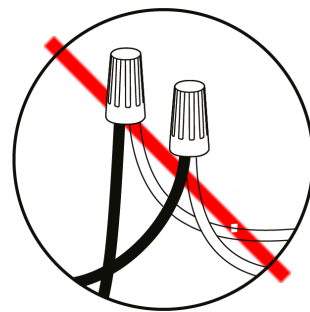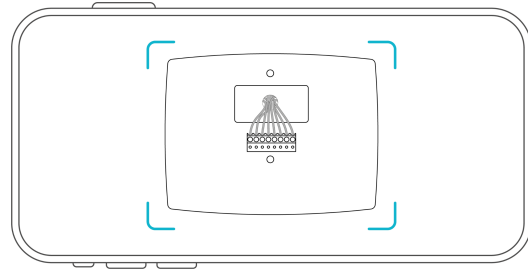After removing the base, we recommend gently wrapping the wires around a pen or pencil to prevent them from falling into the wall hole.
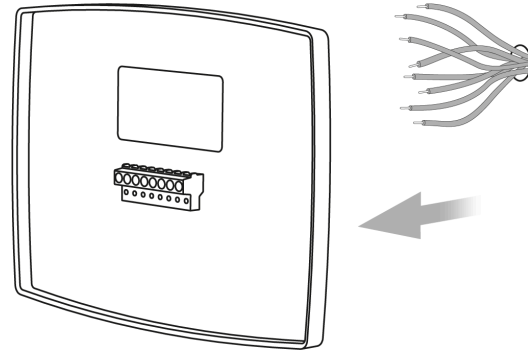
5 **Mark screw locations.**
Use the spirit level on the mounting plate to ensure the thermostat is straight.
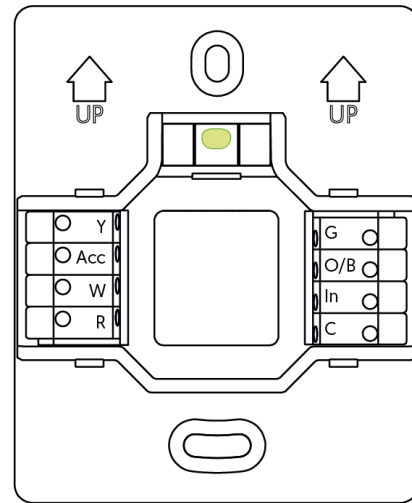
Tip: If you are using the decorative mounting plate (AC6500-01 or AC6500-02) to cover the holes or marks left by the previous thermostat, you must first secure it to the wall and then screw the wall plate afterward.

6 **Fix the mounting plate.**
Pass the wires through the center of the base, then fasten it to the wall with the screws. Use anchors if necessary.

TH6250WF - Installation and configuration guide
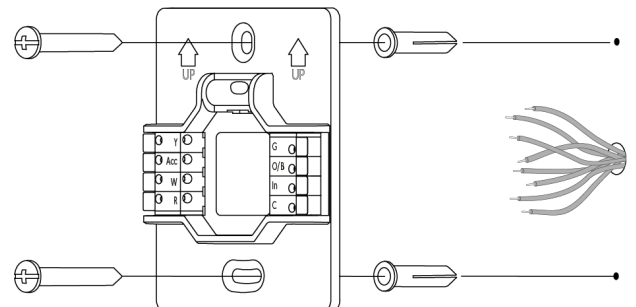
7

Connect the wires.

When the wires are correctly inserted into the connector holes, screw them in precisely to ensure a secure, stable connection. Once all the wires are inserted, carefully tuck them into the wall.
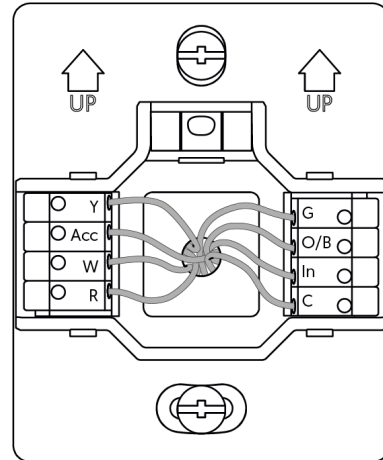
IMPORTANT

1. Insert the wires through the sides of the terminals, not from the top.
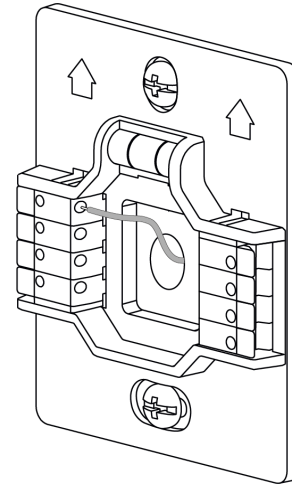
2. Carefully arrange the wires inside the wall so that they do not extend beyond the terminal block.
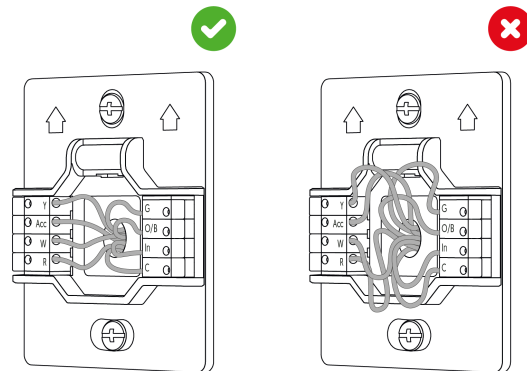
8 **Attach the screen.**
Press the screen onto the base until it clicks into place.
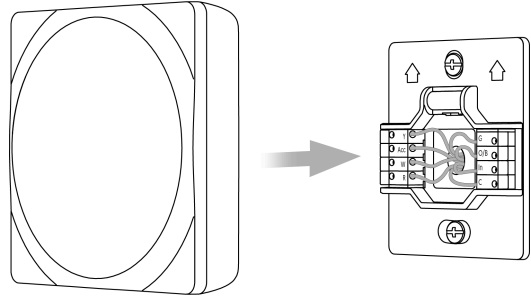
9 **Restore the power supply.**

The start-up screen will appear for a few moments.
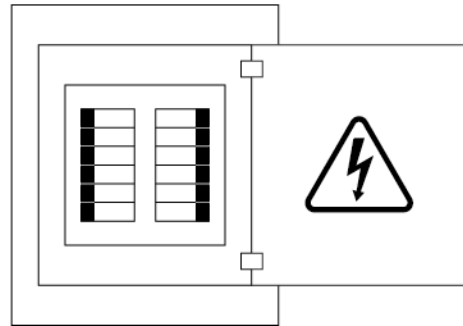
Configuration - Smart Wi-Fi thermostat TH6250WF

Once your thermostat is powered on, the startup screen will briefly appear. Then, follow the steps below to configure it.

Startup screen

1 **Language selection**
Select the language displayed on your thermostat.
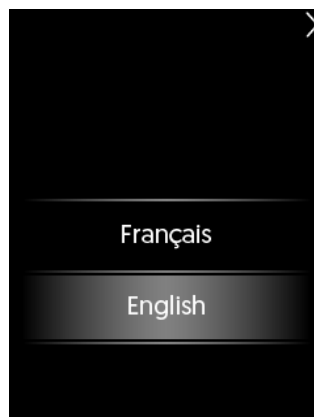
2 **Temperature unit**
Select the temperature format displayed on the thermostat screen.
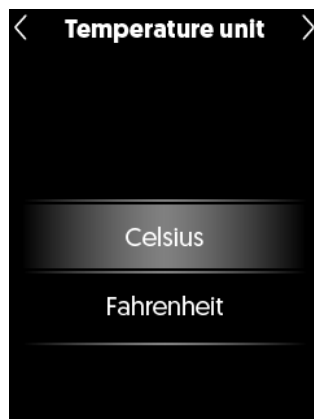
3 Connections detected

Select the wires connected to the thermostat.

> **Tip:** Refer to the photo taken when installing the thermostat.

4 Accessories

Select, if applicable, whether your humidifier is activated on heating or fan.
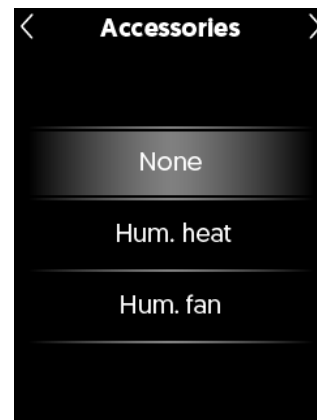
5 Reversing valve*

Determine whether the heat pump reversing valve is activated in cooling or heating mode.

* This screen is only available if the O/B wire is connected.
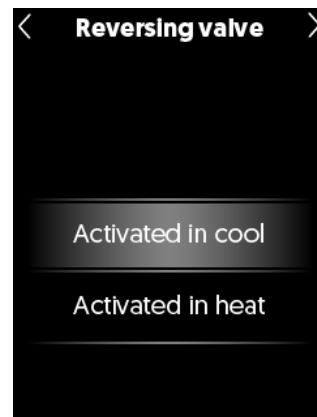
6

Balance point

Select the outdoor temperature above which your heat pump becomes ineffective.

7

Installation type *

Select the type of installation for your equipment

Add-On: If the auxiliary system is activated, the heat pump will be deactivated.
Conventional: The auxiliary system and heat pump can operate simultaneously.

* This screen is only available if the O/B wire is connected.
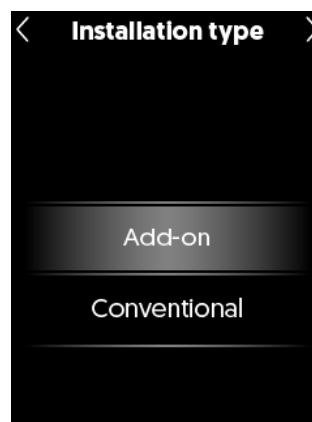
8

Your thermostat's basic configuration is now complete.
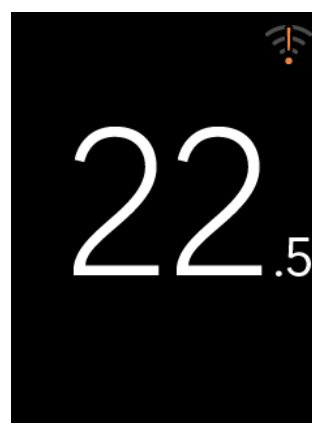
Two options are available for the next steps:

A. Download the Neviweb app to complete the configuration of your thermostat using your smartphone.

B. Navigate the various equipment configuration menu settings to complete the installation.

Configuration with Neviweb

The Neviweb app allows you to access all the features of your smart thermostat.

1   **Tap on the Wi-Fi icon displayed on the screen.**
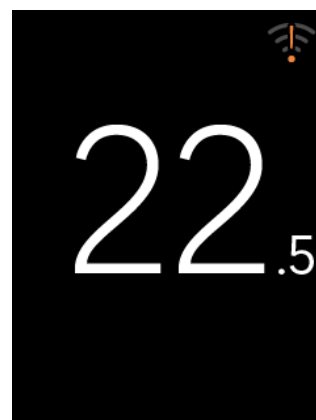
2

Tap on 'Neviweb'.

By choosing Neviweb, you can configure all the settings of your thermostat using your smartphone, benefit from features such as the weather displayed on the screen, and access several functionalities within the platform.

Additionally, you can add your device to Apple Home later.

> **Wi-Fi**
>
> Select one of these applications to connect to Wi-Fi
>
> Neviweb
> Recommanded
>
> Apple Home

3

Follow the steps displayed on the screen.

> **Wi-Fi**
>
> 1. Download the Neviweb app and create an account.
>
> 2. Click on Add a device.
>
> 3. Follow the installation wizard steps.
>
> Connection

4
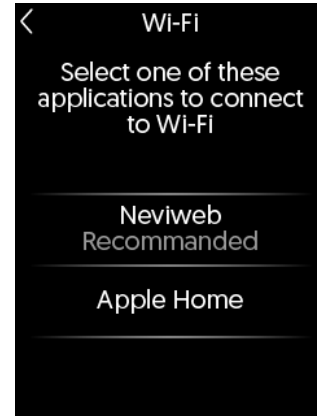
Once the Wi-Fi connection is complete, **tap on the tile corresponding to your thermostat** in the Neviweb app.

> **Wi-Fi connection**
>
> Connected

5   **Setting Configuration**

Tap on ⚙ to access the device settings.
Continue configuring your system preferences in
the various configuration menus.
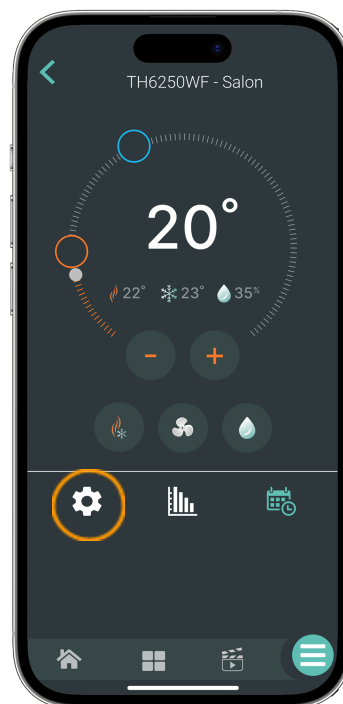
Configuration without Wi-Fi

Several settings of your new thermostat can be configured directly from its interface.

1   **Press on the screen**, except for the Wi-Fi icon,
which is a shortcut to the Wi-Fi connection menu.
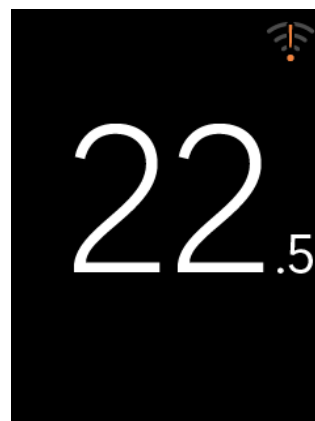
2   Press on ⚙ to access your thermostat's **settings**.
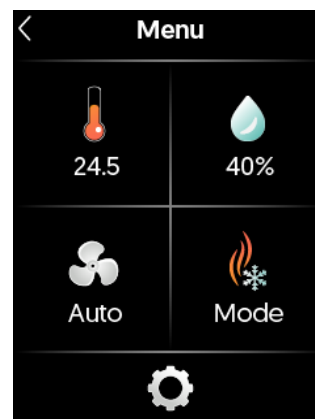
3   **Press on one of the Settings submenus** of your choice to customize your device.
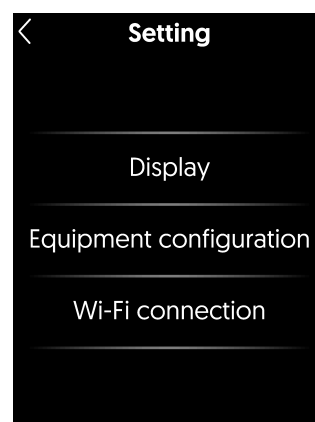
Settings

Display options

Default value in **bold**.

Settings	Description	Options
Temperature unit	Temperature format featured on the thermostat display.	**Celsius** Fahrenheit
Language	Language displayed on your thermostat.	Français **English**

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Equipment configuration option

Some settings may not be available on your thermostat. Access to these settings varies depending on your system. Default value in **bold**.
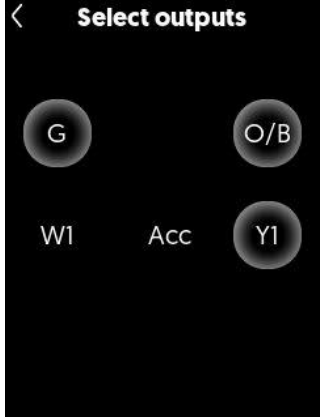
Warning: We recommend that the configuration be performed by a professional.

Default value in **bold**.

Settings	Description	Options
Heating source W	Type of energy used for heating source W. **Electric**: System powered by electricity. **Fossil**: System powered by a fossil fuel, such as gas or fuel oil.	**Fossil** Electric
Auxiliary heating source	Type of energy used for the auxiliary heating source **Electric:** System powered by electricity. **Fossil:** System powered by a fossil fuel, such as gas or fuel oil.	**Fossil** Electric
Reversing valve	Determine if the heat pump reversing valve is activated in cooling or heating mode.	**Activated in cool** Activated in heat
Accessories	Select, if applicable, whether your humidifier is activated on heating or fan.	**None** Humidifier on heat Humidifier on fan
Cooling cycle length in Y	The requested cycle length of your cooling system. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min **20 min** 15 min 10 min
Heat pump cycle length	The length of the cycle required by your heat pump. A shorter cycle increases your comfort but accelerates wear and tear on your equipment.	25 min **20 min** 15 min 10 min
Heat cycle length in W	The requested cycle length of your heating system. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min **20 min** 15 min 10 min[1]*

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[1]*Not available if heating source is fossil fuel

Settings	Description	Options
Auxiliary cycle length	The requested cycle length of your heating system. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min **20 min** 15 min 10 min*
Heating/Cooling setpoint Delta T°	The minimum temperature delta authorized between the heating and cooling setpoints. Only applies in AUTO mode.	1 °C **2 °C** 3 °C 4 °C 5 °C
Balance point	Outdoor temperature at which the heat pump is no longer efficient.	−30 °C to 0 °C Off Default: **−15 °C**
Installation type	Installation type of your equipment **Add-On:** If the auxiliary system is activated, the heat pump will be deactivated. **Conventional:** The auxiliary system and heat pump can operate simultaneously.	**Add-On** Conventional
Temperature calibration	Temperature offset needed to compensate for the inaccuracies between the thermostat temperature reading and the actual temperature.	2 °C 1.5 °C 1 °C 0.5 °C **0 °C** -0.5 °C -1 °C -1.5 °C -2 °C
Compressor min. run time	Minimum time for which the compressors will be active before they can be switched off.	2 min 3 min **4 min** 5 min 10 min
Compressor min. off time	Minimum time the compressor must be switched off before restarting.	2 min 3 min **4 min** 5 min 10 min

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Settings	Description	Options
Auxiliary heating min. run time	Minimum time the auxiliary heater will run before it can be switched off.	2 min 3 min **4 min** 5 min 10 min
Heat pump try time	The period for which the heat pump is used to regulate the temperature before the auxiliary heat stage can be activated.	30 min 1 h 2 h 3 h **4 h** 5 h 6 h 7 h 8 h
Equipment testing	This tool allows the installer to test the equipment. Testing should be conducted by a qualified professional. Improper testing could damage the equipment. By pressing 'Continue', the thermostat will display the available outputs. The professional can then select one or more outputs. The system will activate automatically based on the selected outputs. To end the test, press the output again to deactivate it.	
Diagnostic	This page displays various information that may be useful if you need to contact our Technical Support team. No configuration is possible from this screen.	
Factory reset	Two possible options: **Equipment configuration:** Resets equipment-specific parameters and wire configuration. Other parameters, such as temperature format, setpoints, schedules, and the Wi-Fi connection, will remain unchanged. **Device Reset:** Resets all custom data and previous settings, allowing the user to restart the installation process from scratch.	

Summary of settings

	TH6250WF	Neviweb
Display		
Temperature unit	X	
Language	X	
Device Configuration		
Temperature unit		X
Language		X
Time format		X
Screen brightness		X
Screen access		X
Filter change reminder		X
Away heating setpoint		X
Away cooling setpoint		X
Dual-energy optimization - Éco Sinopé		X
Fan optimization - Éco Sinopé		X
Maximum setpoint heating		X
Minimum setpoint heating		X
Maximum setpoint cooling		X
Minimum setpoint cooling		X
Early start		X
Do not allow heating if the outside temperature is above X°C.		X
Do not allow cooling if the outside temperature is below X°C.		X
Equipment configuration		
Heating source W	X	X
Auxiliary heating source	X	X
Reversing valve	X	X
Accessories	X	X
Cooling cycle length Y	X	X
Heat pump cycle length	X	X
Heating cycle length W	X	X

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	TH6250WF	Neviweb
Auxiliary heating cycle length	X	X
Heating/Cooling setpoint Delta	X	X
Equipment type	X	X
Balance point	X	X
Temperature calibration	X	X
Compressor min. run time	X	X
Compressor min. off time	X	X
Auxiliary heating min. run time	X	X
Equipment testing	X	
Diagnostic	X	
Factory reset	X	

System definition

Temperature controller

The TH6250WF uses an adaptive deadband controller with a programmable cycle length. The thermostat's control band adjusts automatically to achieve the desired cycle length for controlling your system.

Note: The control band represents the variation between the maximum and minimum temperatures reached in the room when the system operates at 50% power, directly impacting comfort.

Since different cycle lengths can be set for primary heating, auxiliary heating, and cooling, the thermostat adjusts to optimize each of the three modes. The thermostat may require several control cycles before adjusting to optimal values. Once optimized, the thermostat saves the optimal value to immediately know which control band to use upon mode change or product restart. The cycle length is 15 minutes by default, but this setting can be changed in the advanced configuration menu.

For example, a thermostat set to a 15-minute cycle may initially only achieve an 18-minute cycle at startup. The thermostat will adjust the control band until the desired cycle time is reached.
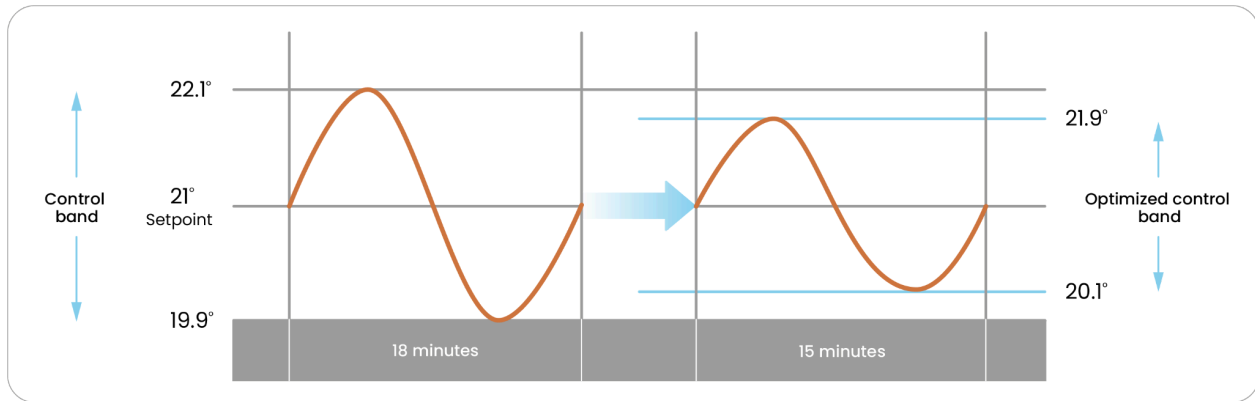
While setting a very short control cycle to increase comfort may be tempting, this approach should not be prioritized. It is essential to set the control cycle according to the installed equipment. Subsequently, the thermostat will automatically optimize the control band to maximize comfort.

Heat pump

The thermostat supports up to 2 stages of heating (1 stage of heat pump and 1 stage of auxiliary heating), 1 stage of cooling, a fan, and an accessory.

The thermostat activates the auxiliary heating stage only if the room temperature exceeds twice the control margin (calculated by the adaptive controller of the thermostat; see "Temperature controller" section) for longer than the **'Heat Pump Try Time**,' an adjustable parameter in the advanced settings. This feature prioritizes heat pump use while providing freeze protection in case of failure. If the outdoor temperature drops below the adjustable 'Balance Point' in advanced settings, the heating switches to auxiliary heating, and the heat pump is stopped.

Dual-energy

The '**IN'** input is compatible with dual-energy systems. It can be connected to a dry contact from a dual-register electric meter or any other device requiring auxiliary heating.

To use this feature, an auxiliary heating output must be available.. When the dual-energy input is activated, the thermostat will exclusively use the heating connected to the auxiliary heating stage.

Accessories

Humidifier

If you connect a humidifier to the '**ACC**' output, it is important to select the thermostat control mode correctly during the installation process. You can always adjust it later in the equipment configuration menu.

If you have a bypass humidifier, whether pad or drum type, you must select '***Humidifier on Heat***' in the accessory settings. The thermostat will activate the humidifier water valve only when the heating is running and humidification is needed. This ensures proper water vapor distribution and prevents condensation in the ducts.

If you have a steam humidifier, select '***Humidifier on Fan***' in the accessory settings. The thermostat will activate the humidifier only if heating ventilation is activated and humidification is necessary.

User guide

Main screen

Outdoor temperature and weather conditions

Ambient temperature

Time

Press the screen to access the menu

Note: The outdoor temperature, weather conditions, and time are available if the thermostat has been added to the Neviweb application.

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Menu

Set point

22.5
Heat

Room temp : 21.0

Back to previous page

Change temperature setpoint

Change fan mode

Fan

On

Auto

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Menu

24.5   40%

Auto   Mode

Settings

Change humidity setpoint

If you have a humidifier, the value under the icon is the current setpoint.

If you don't have a humidifier, the value under the icon is the current rate.

Change modes

The modes displayed may vary depending on the system.

Humidity

Setpoint
35%

Actual 30%

Mode

Heat

Cool

Auto

Emergency heating

Off

Interface

Your system is currently cooling

Your system is currently heating

Your system is in auxiliary heating mode

Your system is in dual-energy mode

Your device takes part in a peak event

Your device is not connected to Wi-Fi

An error is detected, press the screen to obtain details

Outdoor temp. settings prevent system activation

Wi-Fi connection

You can connect your thermostat to Wi-Fi in two ways:
- Setup with **Neviweb**
- Setup with **Apple Home**

We recommend starting with setup through Neviweb. This platform allows you to configure all your thermostat settings using your smartphone easily. Additionally, Neviweb provides the option to display weather conditions on the screen and access various features within the platform. Later on, you can also add your device to Apple Home.

Wi-Fi connection with Neviweb

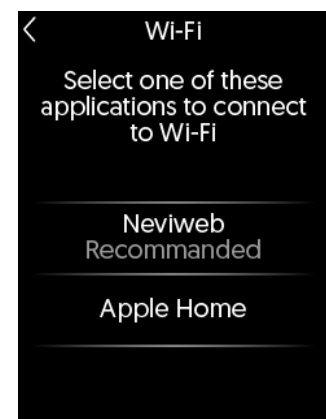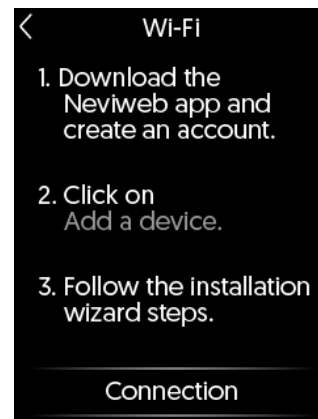**1**   **Tap on the Wi-Fi icon displayed on the screen.**
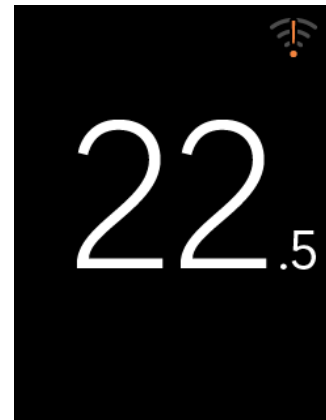
2   **Tap on 'Neviweb'.**

By choosing Neviweb, you can configure all the settings of your thermostat using your smartphone, benefit from features such as the weather displayed on the screen, and access several functionalities within the platform.

Additionally, you can add your device to Apple Home later.

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3   **Follow the steps displayed on the screen.**

Wi-Fi

1. Download the Neviweb app and create an account.

2. Click on Add a device.

3. Follow the installation wizard steps.

Connection

4   Once the Wi-Fi connection is complete, **tap on the tile corresponding to your thermostat in the Neviweb app**.

Wi-Fi connection

Connected

5   **Setting configuration**

Tap on ⚙ to access the device settings. Continue configuring your system preferences in the various configuration menus.

TH6250WF - Salon

20°

22° ❄ 23° 💧 35%
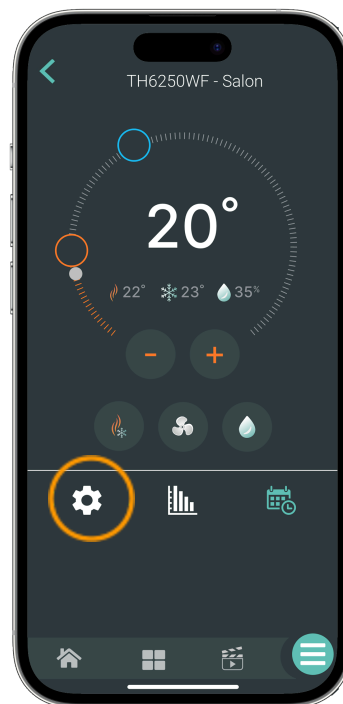
Association with Apple Home

If you have already connected your device via Neviweb and now want to add it to Apple Home, please follow the steps below:

1   **Tap on the main screen to access the menu.**
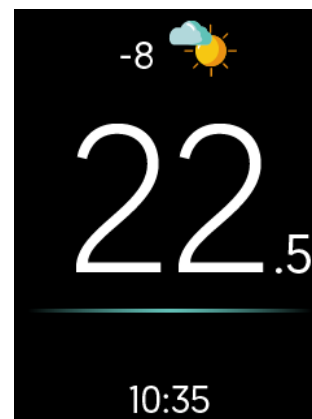
2   **Tap on** ⚙ to access settings.
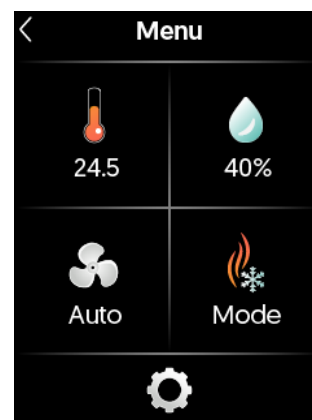
3   Tap on '**Wi-Fi Connection**'.
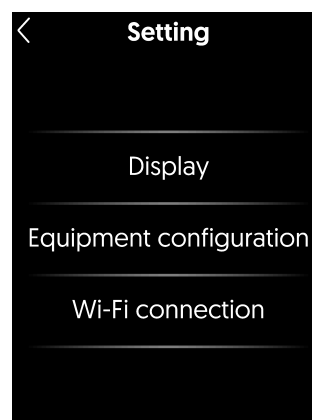
4 Then tap on '**Apple Home Configuration**.'.

	WI-Fi configuration

Connection status

Neviweb configuration

Apple Home
configuration

5 Follow the on-screen steps and tap '**Connection**'.

Apple Home

1. Open the Apple Home
   App and press
   Add accessory

2. Press the Connection
   button below to enter
   configuration mode,
   then scan the QR code
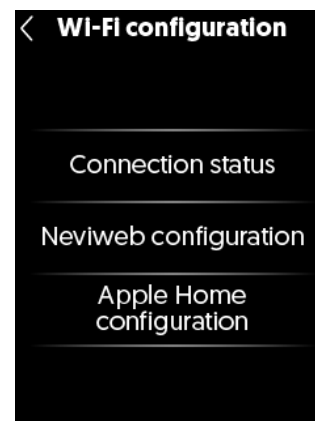
Connection

6 Follow the steps displayed on the screen.

Apple Home

3. Scan the Apple
   HomeKit setup code
   on the screen.

1234
5678

Apple Home

Connecting

Apple Home

Connected

7

Tap the arrow in **the top left corner** to exit the connection menu.

‹   Wi-Fi

Start the configuration with Neviweb to acitvate all features of your thermostat

Start

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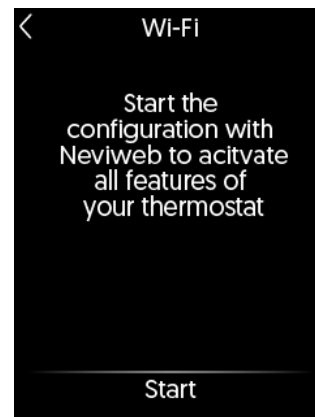
Wi-Fi connection via Apple Home

1   Tap on the '**Wi-Fi icon**' displayed on the screen.

2   Tap on '**Apple Home**'.

3   Follow the on-screen steps and tap **'Connection'.**

4 **Follow the steps displayed on the screen.**

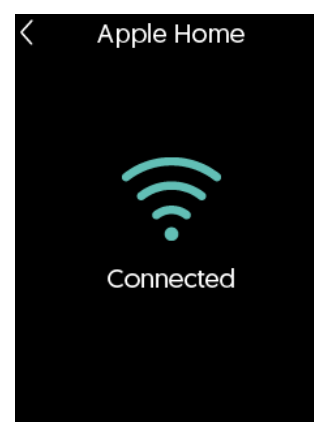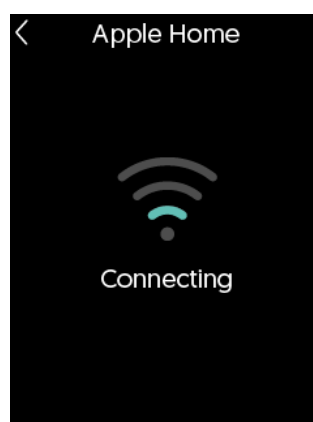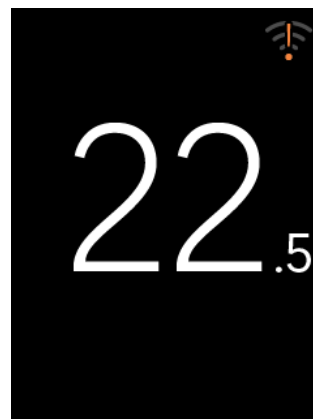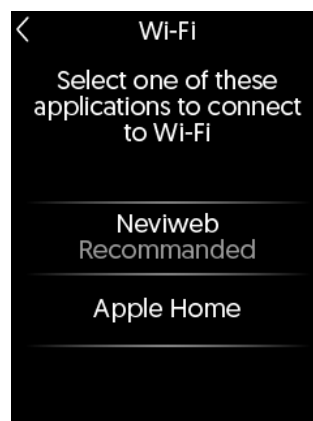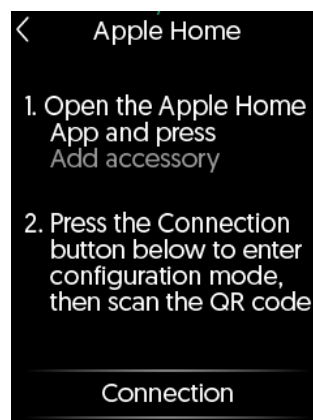| Apple Home	Apple Home	Apple Home
3. Scan the Apple HomeKit setup code on the screen.	Connecting	Connected
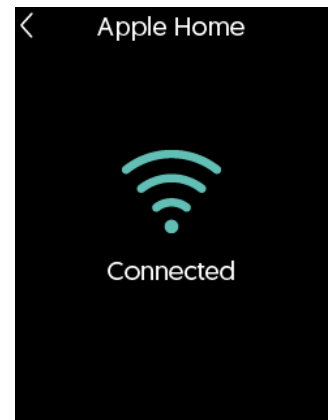
5 We recommend continuing the setup and adding your thermostat to the **Neviweb** application.

This platform lets you easily adjust **all thermostat settings** directly from your smartphone.

Additionally, Neviweb offers the ability to display weather conditions on the thermostat's screen and access various additional features.

Tap '**Get Started**' and follow the on-screen instructions.

Tap the arrow in the top left corner to return to the main page.

Wi-Fi

Start the configuration with Neviweb to acitvate all features of your thermostat

Start

Automatic and away-from-home control of this HomeKit-compatible accessory requires a HomePod, Apple TV, or iPad set up as a Home Hub. It is recommended that the software and operating system be updated.

Using the *Works with Apple* badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple's performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

HomeKit is a trademark of Apple Inc.

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Explore more with Neviweb!

The Neviweb application, developed by Sinopé Technologies, a company specializing in smart device design and the largest Canadian manufacturer of such devices for residential and multi-residential sectors, offers comprehensive management of your smart devices.

Neviweb is a consumer application for managing various devices, including other thermostats, switches, dimmers, and water damage protection systems.

Discover additional features available in Neviweb for the **smart thermostat**:

- **Schedule filter change reminders:** Ensure indoor air quality.
- **Adjust screen brightness:** Customize screen responsiveness to your preferences.
- **Screen access control:** Explore different access levels to restrict access for children or in commercial settings.
- **Change time display format.**
- **Customize setpoints**: Adjust settings based on your schedules and geofencing.
- **View energy consumption graphs.**
- **Add devices to Éco Sinopé:** Optimize energy consumption during peak events.

Troubleshooting and support

If you encounter any difficulties during the installation or operation of the thermostat, the Neviweb application, or when connecting to other platforms, we invite you to consult Sinopé's support website by visiting https://support.sinopetech.com/en/.

The technical support team will be happy to assist you.

Call us at :
 1 (855) 741-7701

Write to us at:
support@sinopetech.com

Find us at :
705 Montrichard Avenue
Saint-Jean-sur-Richelieu
Quebec, Canada (J2X 5K8)

Opening hours :
Monday to Friday - 8:00 am to 4:30 pm (EST)
Saturday & Sunday - Closed

3-year Limited Warranty

SINOPÉ TECHNOLOGIES INC. ("Sinopé") warrants the components of their products against defects in material and workmanship for a 3-year period from the date of purchase, under normal use and service, when proof of purchase of such is provided to the manufacturer. If, at any time during the warranty period, the product is determined to be defective, SINOPÉ TECHNOLOGIES INC. will replace it. This warranty does not cover any transportation costs that may be incurred by the consumer. Nor does it cover a product that has been improperly installed, misused, or accidentally damaged. The obligation of SINOPÉ TECHNOLOGIES INC., under the terms of this warranty, will be to supply a new unit, and this releases the manufacturer from paying the installation costs or other secondary charges linked to replacing the unit or the components. The manufacturer shall not be liable for incidental, consequential, or special damages arising at or in connection with product use or performance.

Technical information

TH6250WF

Smart Wi-Fi thermostat for central system

87,0mm [3,43po]   21,8mm [0,86po]

87,0mm [3,43po]
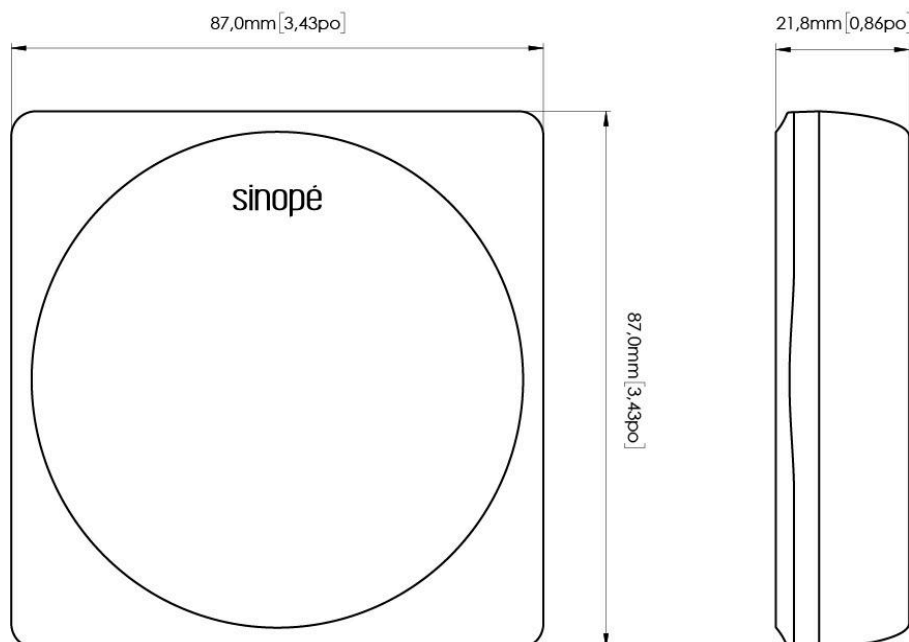
Connectors	See the information on the mounting plate
Power supply	24V AC
Screen	2.4" color TFT touchscreen 240 px * 320 px
Dimensions(W x H x D)	87 mm (3.43 in) X 87 mm (3.43 in) X 23,6 mm (0.86 in)
Operating temperature	0 ºC to 50 ºC (32 ºF to 122 ºF)
Storage temperature	-20 ºC à 50 ºC (-4 ºF à 122 ºF)
Sensors	Humidity sensor Proximity sensor Light sensor for adaptive display
Communication protocol	Protocol: Wi-Fi Standard: IEEE 802.11 b/g/n Frequency: 2.4 GHz Encryption key: WPA2
Communication module	IC: 21098-ESPC6WROOM1 FCC ID: 2AC7Z-ESPC6WROOM1
Warranty	3 years

Mounting plate
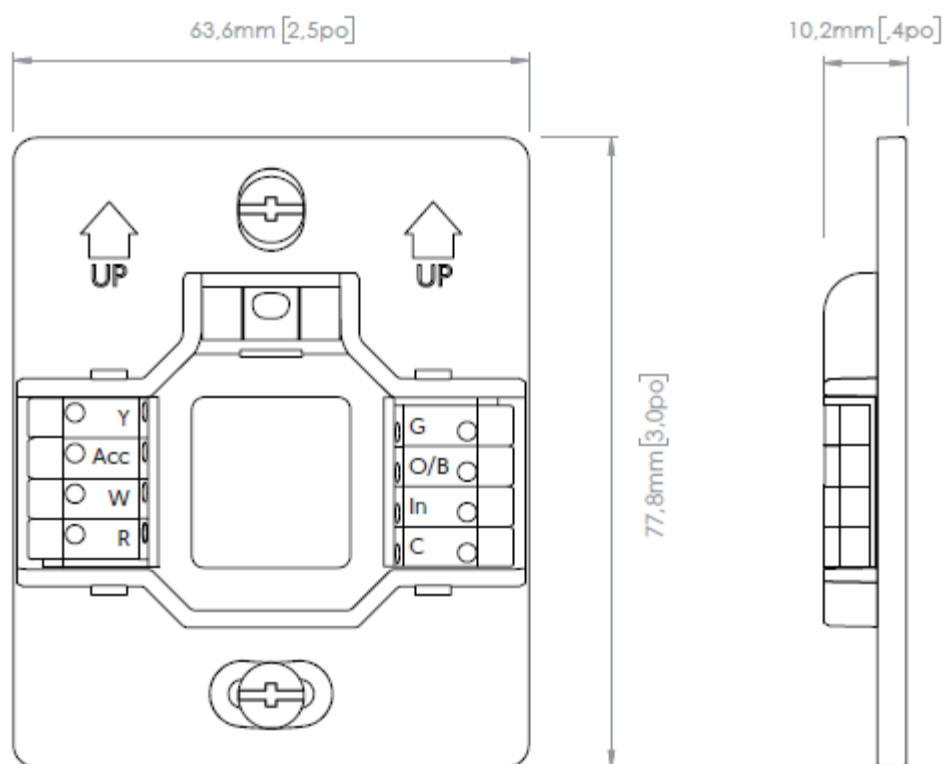
Dimensions (W x H x D)	63.6 mm (2.5 in) x 77.8 mm (3.0 in) x 10.2 mm (0.4 in)
Connectors	8 connectors Wire range (Solid): 18-22 AWG Wire range (Stranded): 20-22 AWG Wire clearance manufacturer's recommendation: 6.5 - 7.0 mm

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Controlling this HomeKit-enabled accessory automatically and away from home requires a HomePod, Apple TV, or iPad set up as a home hub. It is recommended that you update to the latest software and operating system.
Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. HomeKit is a trademark of Apple Inc.

Neviweb® is a registered trademark of Sinopé Technologies Inc. in Canada and the United States.

Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.
App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

Google Play and the Google Play logo are trademarks of Google Inc.

The Wi-Fi CERTIFIED™ Logo is a certification mark of Wi-Fi Alliance®.

ISED Canada compliance statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

FCC compliance statement

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:
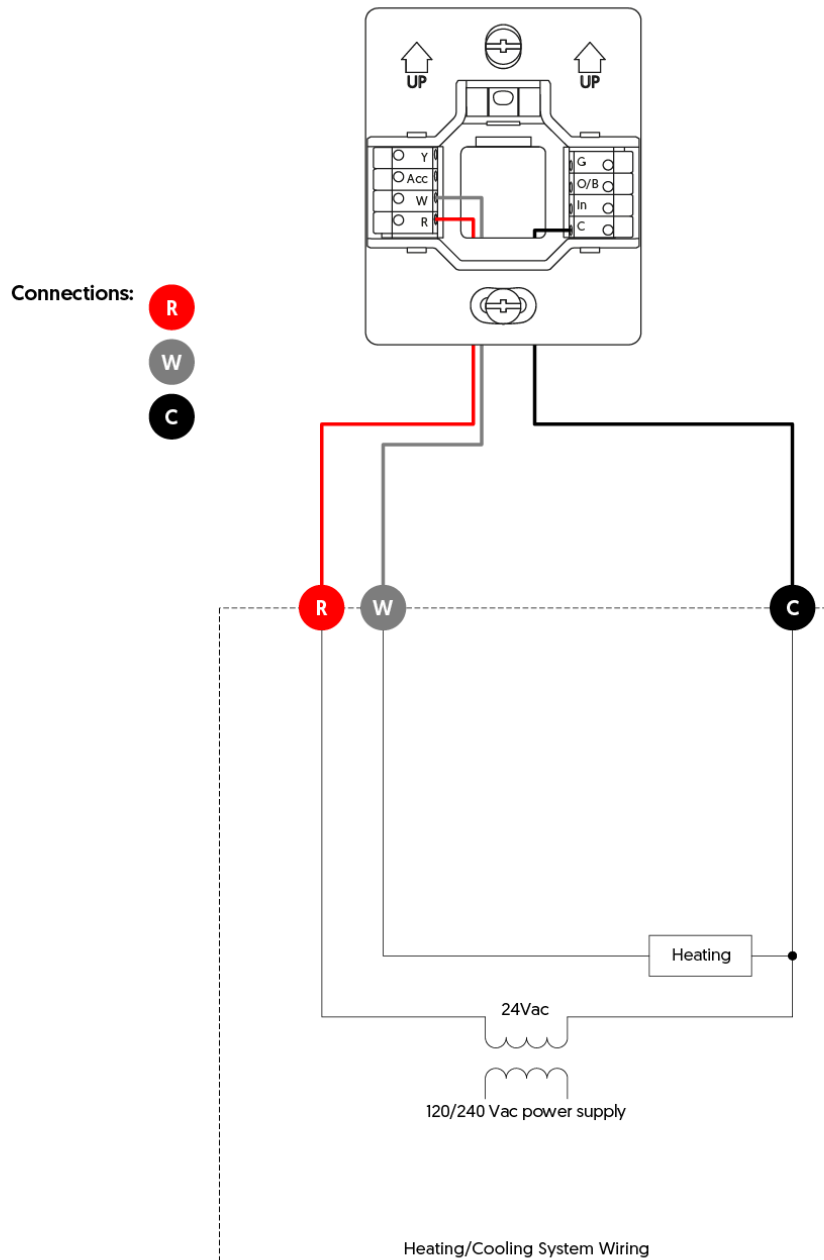- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

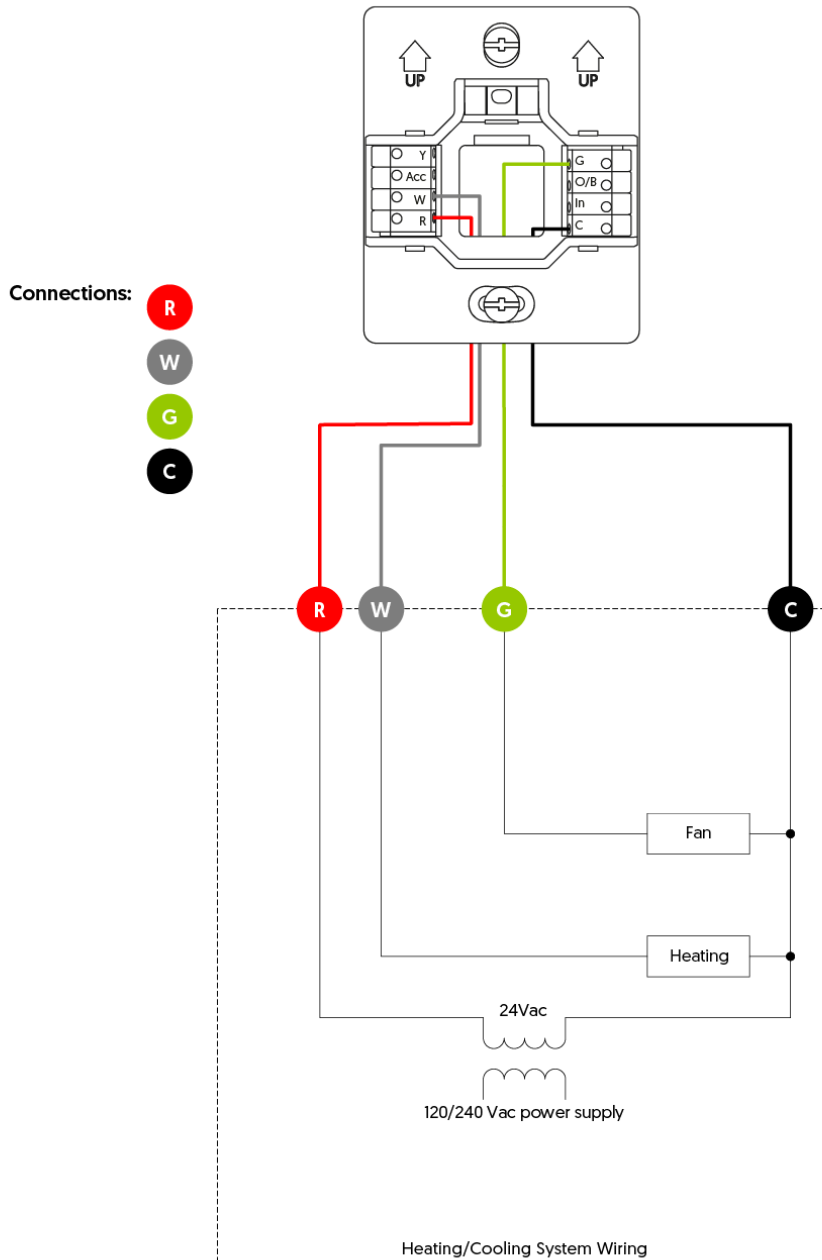# Wiring diagrams

Conventional system

Wiring: 1H

This system refers to a single-stage heating system without ventilation. Standard connection for furnaces.
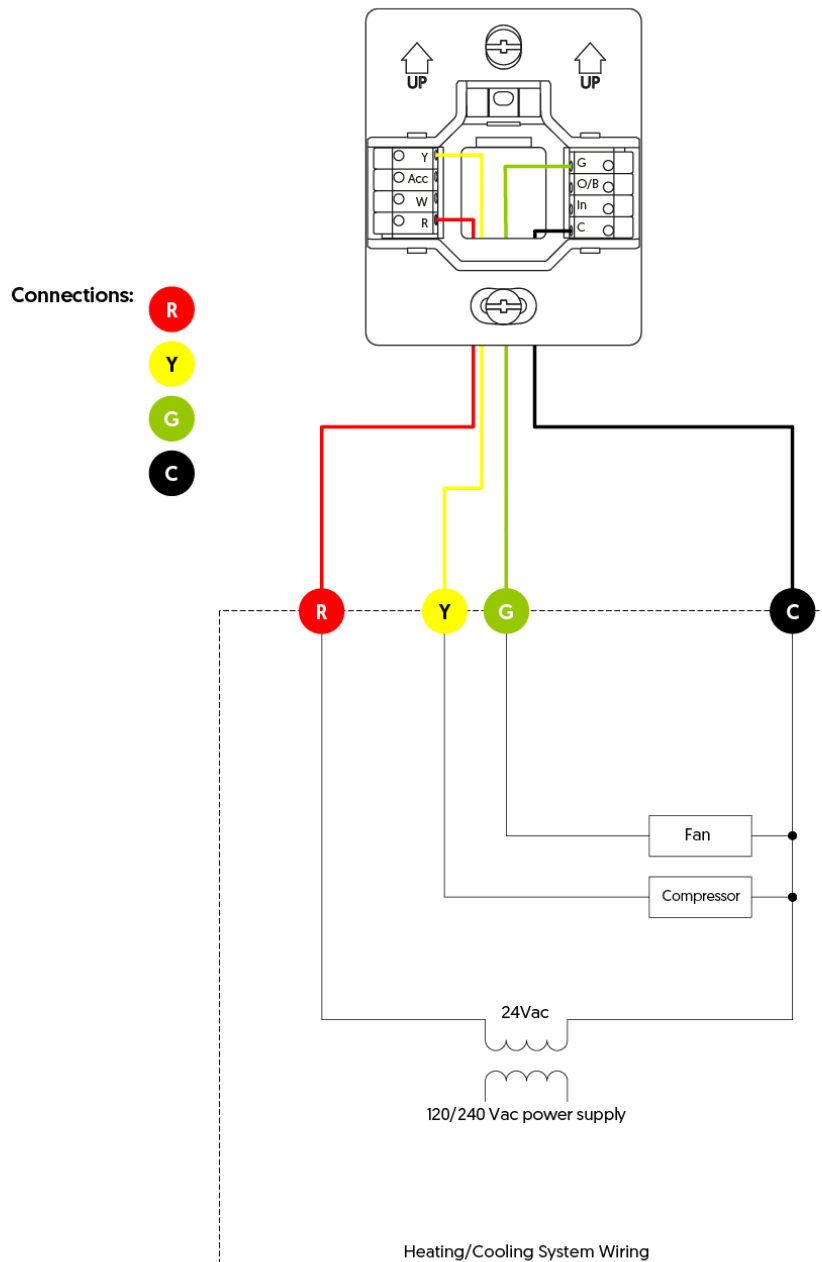
Wiring: 1H

This system refers to a single-stage heating system with ventilation control. Standard connection for furnaces.

Connections:

R
W
G
C

Fan

Heating

24Vac

120/240 Vac power supply

Heating/Cooling System Wiring
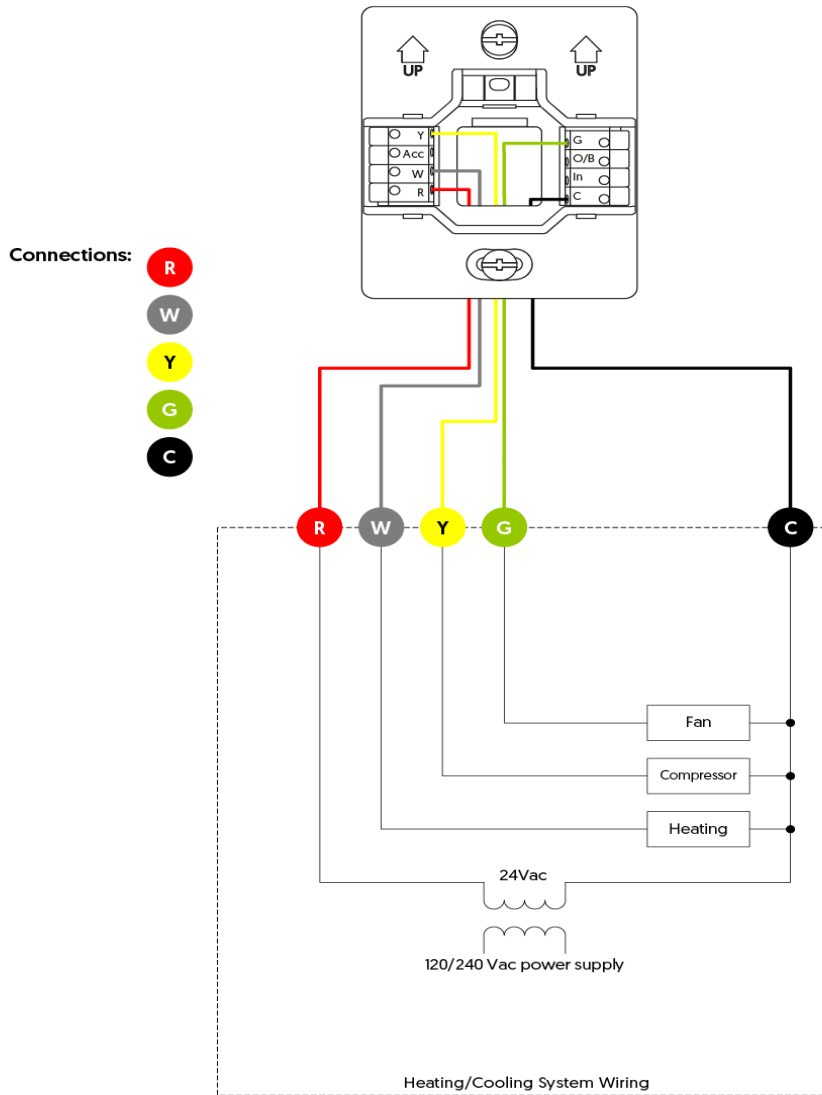
Wiring: 1C

This system refers to a single-stage air conditioning system with ventilation control. Standard connection for air conditioners.

TH6250WF - Installation and configuration guide

Wiring: 1H1C

This system refers to a heating, ventilation, and air conditioning system designed for one heating and one cooling stage.

Heating/Cooling System Wiring

Heat pump

Wiring: 1H1C

System to control heating and cooling functions, as well as fan operation, at a single stage. Standard connection for heat pumps.

Connections:
- R
- Y
- G
- O/B
- C

Valve

Fan

Compressor

24Vac

120/240 Vac power supply

Heating/Cooling System Wiring
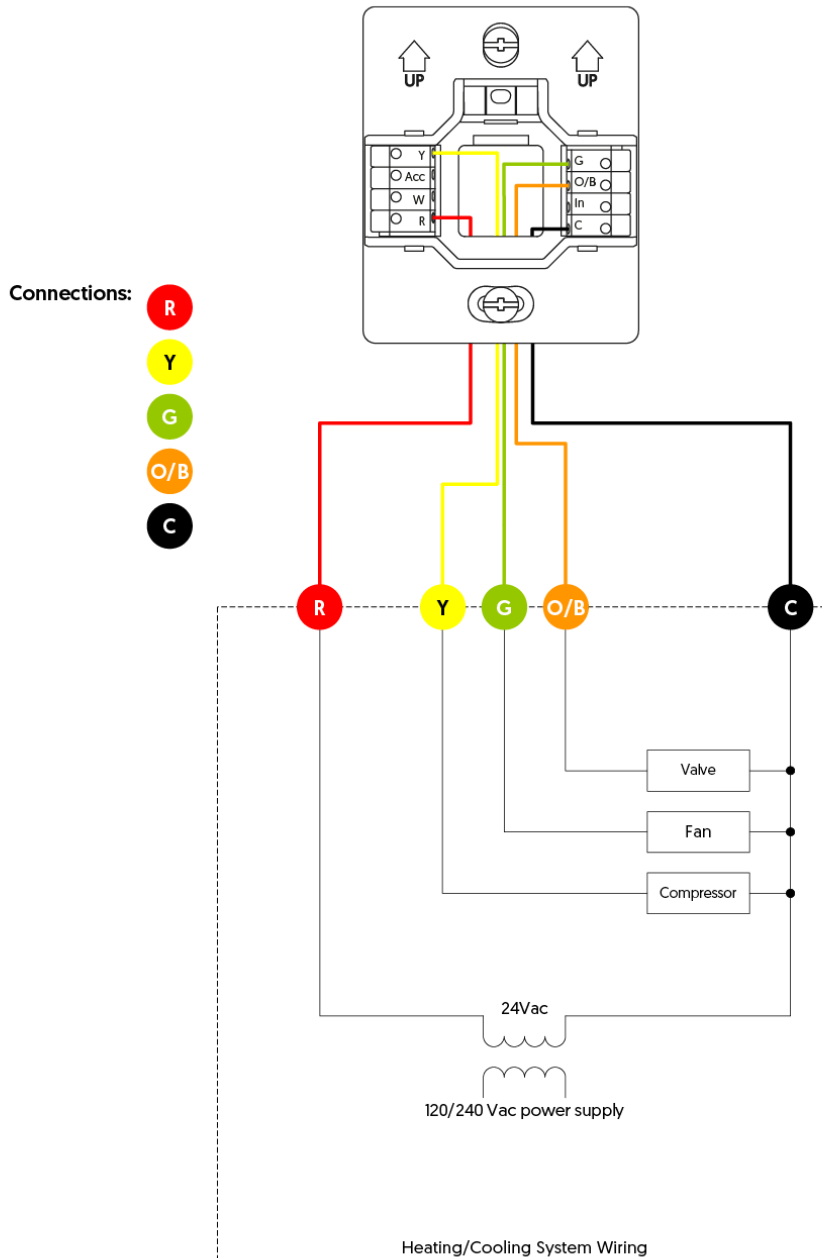
Wiring: 2H1C

Refers to an HVAC system with two heating stages and one air conditioning stage with ventilation control. Standard connection for heat pumps.

Connections:

R
W
Y
G
O/B
C

Valve
Fan
Compressor
Heating

24Vac

120/240 Vac power supply

Heating/Cooling System Wiring
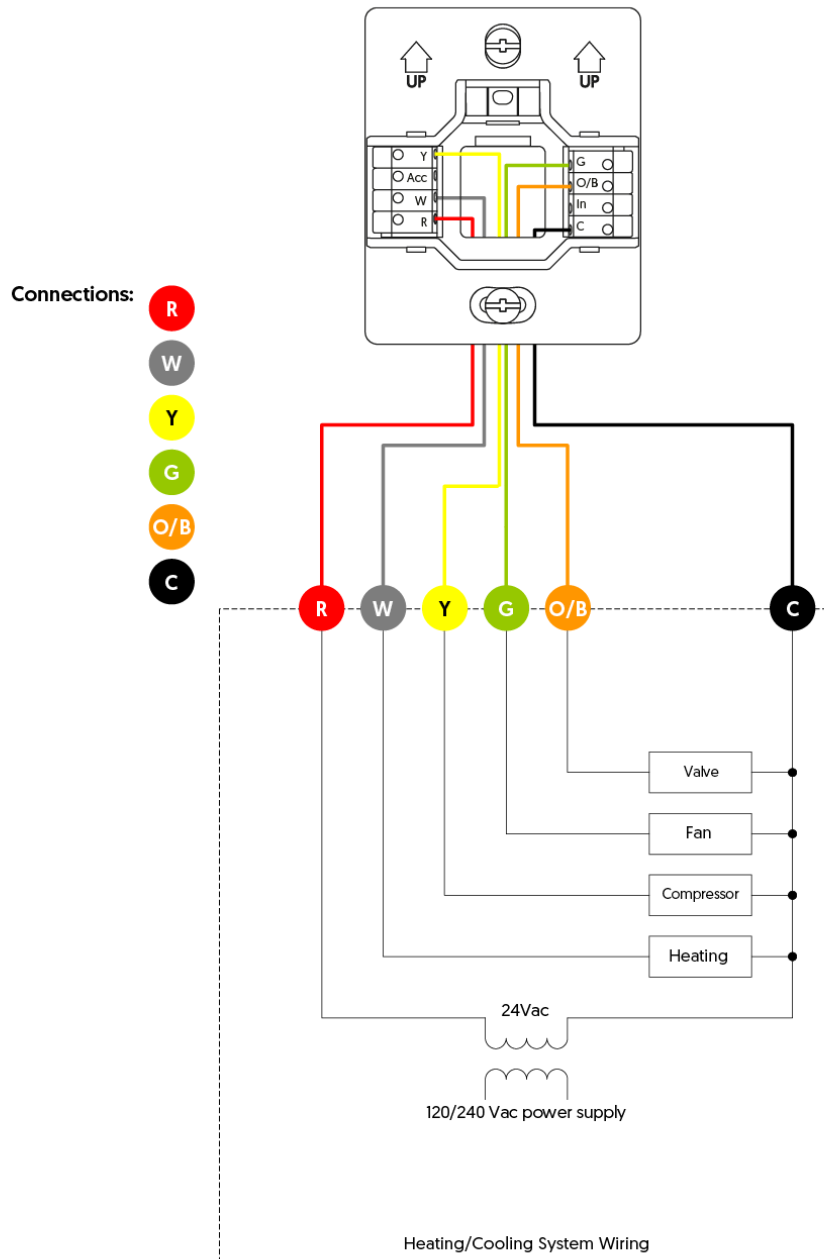
Additional system
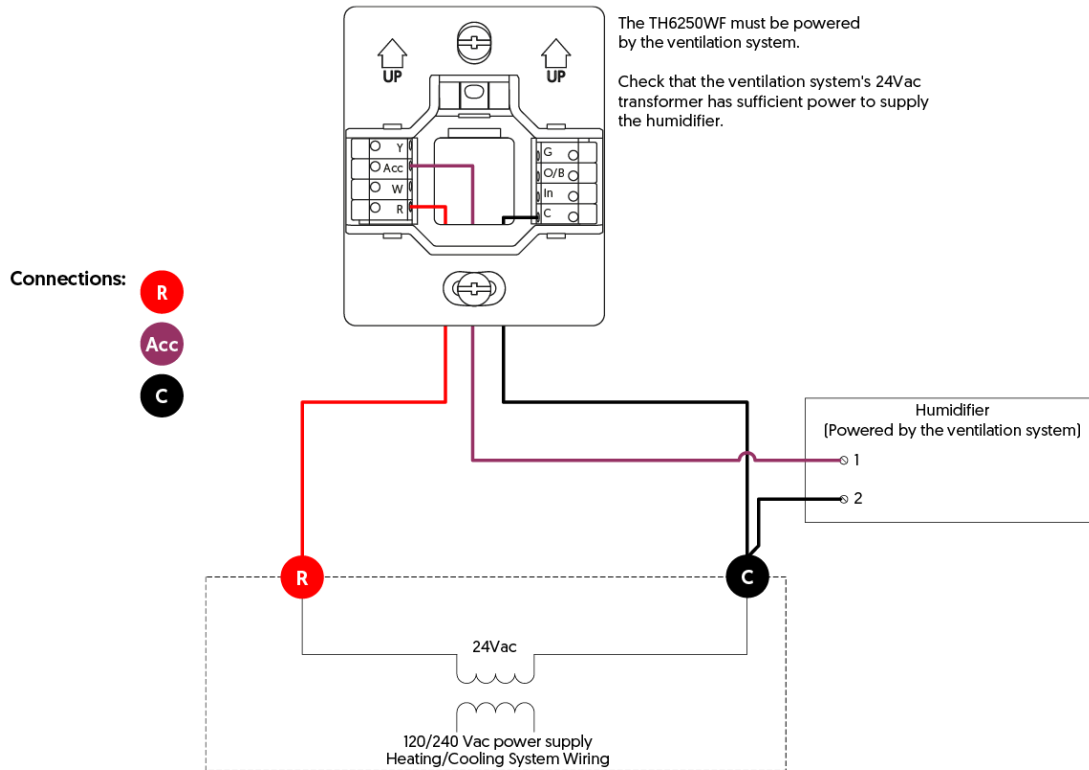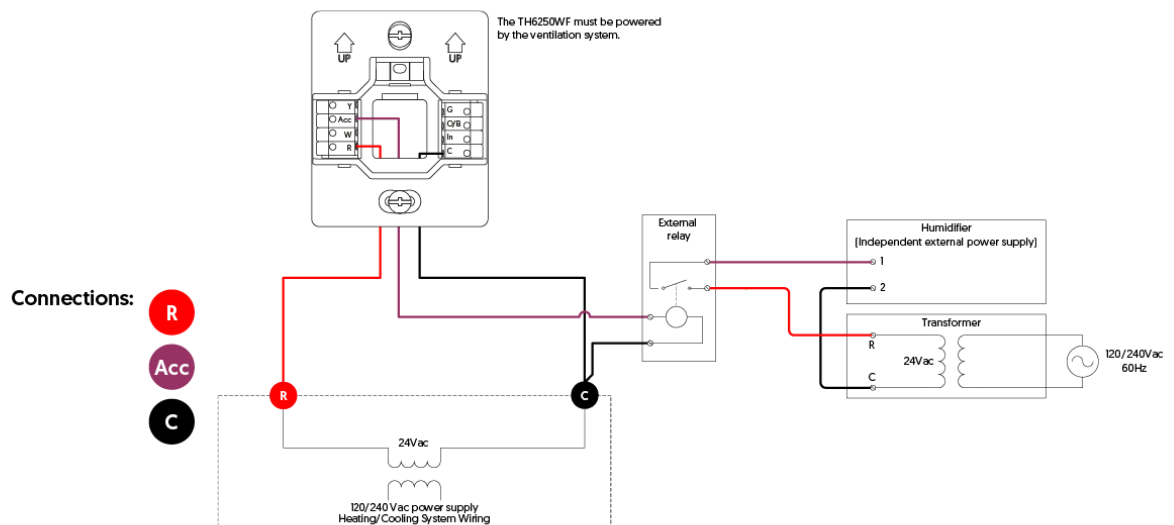
Wiring: Acc. Humidifier

Humidifier powered by the HVAC system.

The TH6250WF must be powered by the ventilation system.

Check that the ventilation system's 24Vac transformer has sufficient power to supply the humidifier.

Connections:

R

Acc

C

Humidifier
(Powered by the ventilation system)

1

2

R

C

24Vac

120/240 Vac power supply
Heating/Cooling System Wiring

Humidifier with an independent external power supply

The TH6250WF must be powered by the ventilation system.

Connections:

R

Acc

C

R

C

External relay

Humidifier
(Independent external power supply)

1

2

Transformer

R

24Vac

C

120/240Vac
60Hz

24Vac

120/240 Vac power supply
Heating/Cooling System Wiring

Humidifier with an independent internal power supply

The TH6250WF must be powered by the ventilation system.

UP   UP

Y
Acc
W
R

G
O/B
In
C

External relay

Humidifier
(Internal power supply)

1
2

Connections:

R

Acc

C

R   C

24Vac

120/240 Vac power supply
Heating/Cooling System Wiring
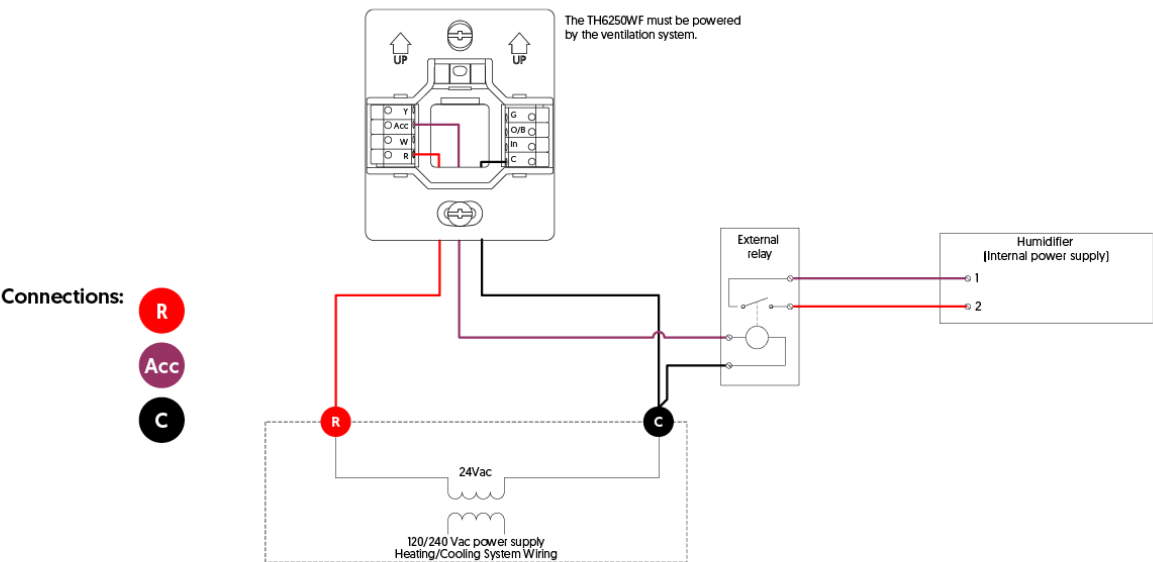
Wiring: Dual-energy

Connection for dual-energy signal.
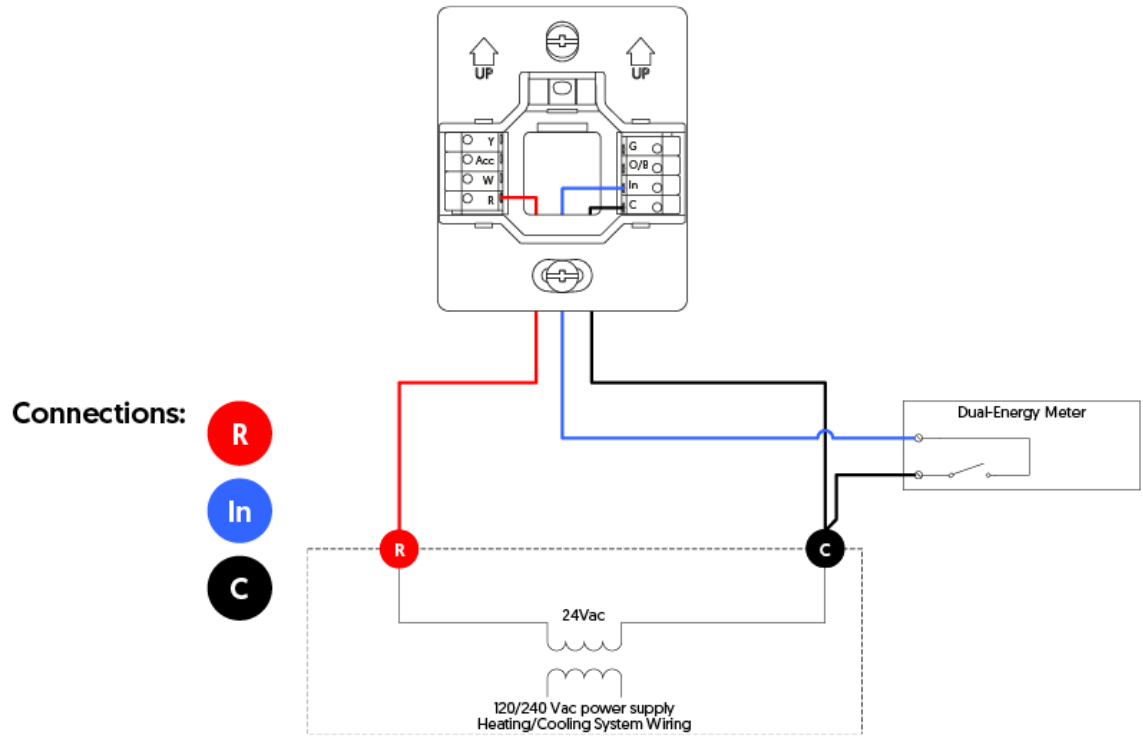
Additional accessories

Decorative mounting plates

Designed to cover wall imperfections left by the previous thermostat, they also include a steel plate for installing the thermostat above an electrical box.
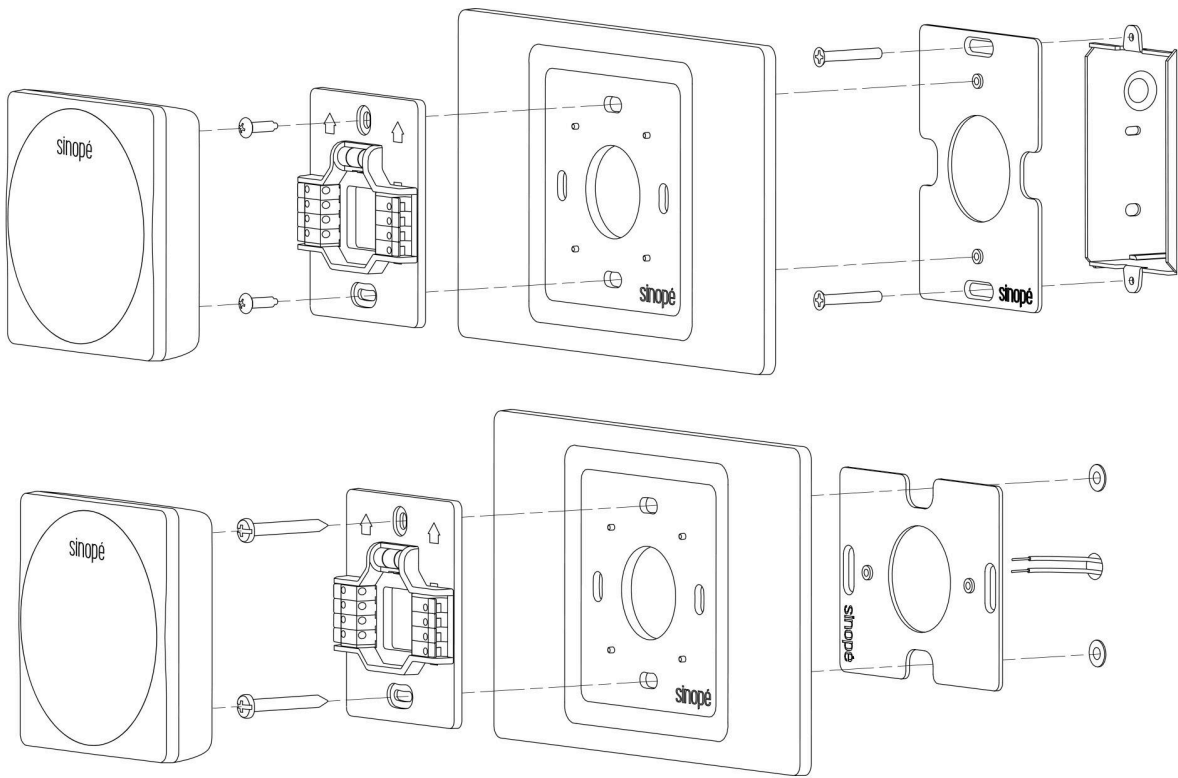

AC6500-01 Decorative Mounting Plate (sold separately)

Dimensions (W x H x D): 180.5 mm (7.11 in) X 112.5 mm (4.43 in) X 5 mm (0.20 in)

Included in the box:
- Decorative mounting plate
- Steel plate, installation sheet
- 2x screws for the decorative plate
- 2x screws for the steel plate

Installation diagrams for the AC6500-01 decorative mounting plate:

AC6500-02 Decorative Mounting Plate (sold separately)

Dimensions (W x H x D): 114.3 mm (4.5 in) X 114.3 mm (4.5 in) X 4.8 mm (0.19 in)

Included in the box:
- Decorative mounting plate
- Steel plate, installation sheet
- 2x screws for the decorative plate
- 2x screws for the steel plate

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Installation diagrams for the AC6500-02 decorative mounting plate: