# sinopé

#### **Smart thermostat**

**HVAC** 

# Installation and configuration guide

**TH6250WF** 





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### Included in the box

Inside the box, you will find:



TH6250WF thermostat



2x screws 2x anchors



Mounting plate



Welcome guide

# Installation requirements

- Flathead or Phillips screwdriver for wall installation of the mounting plate - Phillips #2/slot M7.0
- **Optional** for a more straightforward setup:
  - → Wi-Fi connection
  - → Smartphone or tablet
  - → Sinopé account



# **Connections**

Connection	Description	
С	24 Vac common power supply	
R	24 Vac power supply from the heat pump	
G	Circulation fan	
w	First stage of heating or auxiliary heating for the heat pump	
0/в	Reversing valve	
Υ	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	0/в	Y	ACC	IN
	Conventional system								
1	1H	Χ	Х		Х				
2	1H	Χ	Х	Х	Х				
3	1C	Χ	Х	Х			Х		
4	1H1C	Χ	Χ	Х	Х		Х		
	Heat Pump								
5	1H1C	Χ	Х	Х		Х	Х		
6	2H1C	Χ	Χ	Х	Х	Х	Χ		
		1	<b>Additi</b>	onal	syste	m			
7	Humidifier / Dehumidifier / Air exchanger	X							
8	Dual-energy	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.

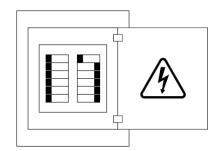
- Hire a qualified professional to install the HVAC system.
- Ensure system compatibility: Before any installation, check that the components to be installed are compatible with your existing HVAC system. If in doubt, consult a professional for appropriate advice.
- Follow applicable standards: Ensure 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 the safety of those around you, hire a qualified professional.

# Installation - Smart Wi-Fi thermostat TH6250WF

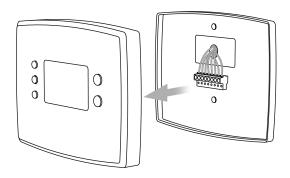
### Switch off the power supply. Pefers installing the thermostat

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.



# Remove the cover of your old thermostat.

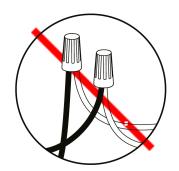
Some covers can be removed by hand, while others may need to be unscrewed.



#### **Marning**

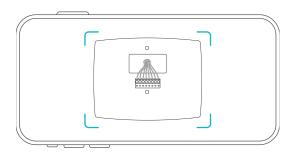
#### Check your system's compatibility.

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



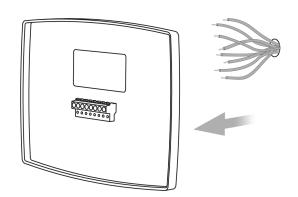
# Take a photo of the wiring of your old thermostat.

This photo can be handy when installing your new thermostat.



# 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.

#### **Installation Tip**

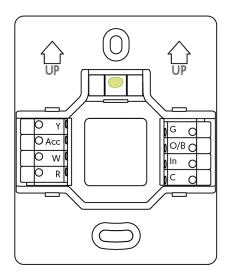
When using the decorative mounting plate (AC6500-01 or AC6500-02) to cover holes or marks left by a previous thermostat, install the decorative plate on the wall first. Then, attach the thermostat's wall plate on top.

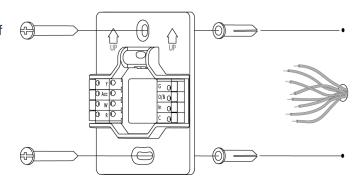
#### **1** Important note

If the installation includes a junction box, the decorative plate is **mandatory** to ensure **proper and safe coverage**.

#### 6 Attach the mounting plate

Feed the wires through the center of the base and secure it to the wall using the provided screws. Use anchors if needed.

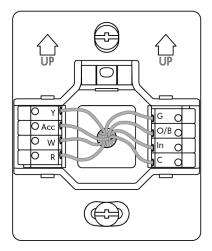




#### 7 Connect the wires

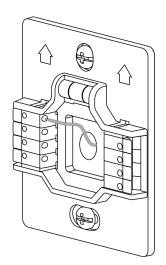
Insert each wire fully into the connector openings.

Once all wires are properly connected, carefully tuck them into the wall cavity.

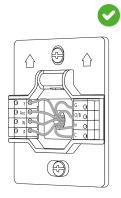


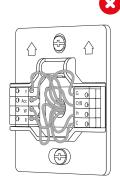
#### **IMPORTANT**

 Insert the wires through the sides of the terminals, not from the top.



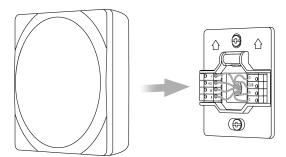
Carefully arrange the wires inside the wall so that they do not extend beyond the terminal block.





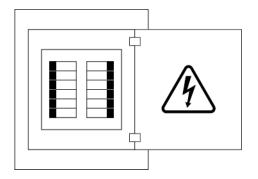
#### 8 Attach the thermostat

Align the thermostat with the wall plate and press it firmly until it clicks into place.



### 9 Restore Power

Turn the circuit breaker back **ON** to power up the thermostat.



# Configuration - Smart Wi-Fi thermostat TH6250WF

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

#### Startup screen



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.

If the \(\bigcap\) symbol appears on a tile, click it to view error code details and learn how to fix the problem. If necessary, contact our <a href="Support team">Support team</a>.

**Tip:** Refer to the photo taken during installation of the thermostat.

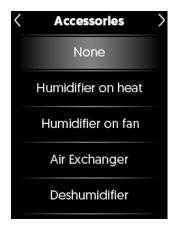
( Connections detected )
Modify if necessary

R G O/B

C W Y

Acc

Accessories
Select your accessory, if applicable.



- 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.



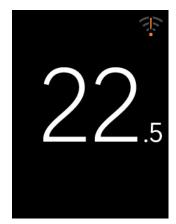
7 Installation type \*
Select the type of installation for your equipment

**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.
- Your thermostat's basic configuration is now complete.





#### Two options are available for the next steps:

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







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

# Option A - Configuration with the Sinopé Neviweb app

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

Tap the Wi-Fi icon on the screen.



#### 2 Tap on 'Sinopé'.

By choosing the Sinopé Neviweb app, you can configure all your thermostat settings on your smartphone, enjoy features like weather displayed on the screen, and access several platform functionalities.

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



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



Once the Wi-Fi connection is complete, tap the thermostat tile **in the Sinopé Neviweb app**.



5 Setting Configuration

Tap on to access the device settings.

Continue configuring your system preferences in the various configuration menus.



# Option B - Configuration without Wi-Fi

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

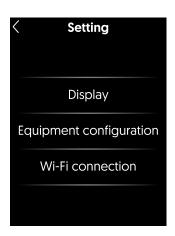
Press on the screen, except for the Wi-Fi icon, which is a shortcut to the Wi-Fi connection menu.



2 Press on to access your thermostat's **settings**.



Select a Settings submenu to customize your device.



# Settings

#### Display options

#### Default value in **bold**.

Settings	Description	Options
Temperature unit	Temperature format featured on the thermostat display.	<b>Celsius</b> Fahrenheit
Language	Language displayed on your thermostat.	Français <b>English</b>

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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.

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.	<b>Electric</b> Fossil
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.	<b>Electric</b> Fossil
Reversing valve	Determine if the heat pump reversing valve is activated in cooling or heating mode.	Activated in cool Activated in heat
Accessories	Select your accessory, if applicable.	None Humidifier on heat Humidifier on fan Air exchanger Dehumidifier
Heat dissipation time	Delay that allows hot air remaining in the ducts to be evacuated after the system has been shut down.	1 min 2 min 3 min 4 min 5 min Off
Cool dissipation time	Delay that allows cold air remaining in the ducts to be evacuated after the system has been shut down.	1 min 2 min 3 min 4 min 5 min Off

Settings	Description	Options
Cooling cycle length in Y	The thermostat adjusts the control band to achieve the desired cooling cycle length. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min <b>20 min</b> 15 min 10 min
Heat pump cycle length	The thermostat adjusts the control band to achieve the desired cycle length of your heat pump. A shorter cycle increases your comfort but accelerates wear and tear on your equipment.	25 min <b>20 min</b> 15 min 10 min
Heat cycle length in W	The thermostat adjusts the control band to achieve the desired cycle length of your heat pump. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min <b>20 min</b> 15 min 10 min <sup>1</sup>
Auxiliary cycle length	The thermostat adjusts the control band to achieve the desired cycle length of your heat pump. A shorter cycle will increase your comfort but will also increase the wear of your equipment.	25 min <b>20 min</b> 15 min 10 min <sup>2</sup>
Heating/Cooling setpoint Delta T°	The minimum temperature delta authorized between the heating and cooling setpoints. Only applies in AUTO mode.	1°C <b>2°C</b> 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: <b>-15</b> ° <b>C</b>
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.	<b>Add-On</b> Conventional

<sup>&</sup>lt;sup>1</sup> Not available if heating source is fossil fuel <sup>2</sup> Available only when the selected heating source is electric



Settings	Description	Options
Temperature calibration	Temperature offset needed to compensate for the inaccuracies between the thermostat temperature reading and the ambient 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 <b>4 min</b> 5 min 10 min
Compressor min. off time	Minimum time the compressor must be switched off before restarting.	2 min 3 min <b>4 min</b> 5 min 10 min
Auxiliary heating min. run time	Minimum time the auxiliary heater will run before it can be switched off.	2 min 3 min <b>4 min</b> 5 min 10 min
Heating min. off time	Minimum time the main heater must remain off.	2 min 3 min <b>4 min</b> 5 min 10 min
Auxiliary heating min. off time	Minimum time the main heater must remain off.	2 min 3 min <b>4 min</b> 5 min 10 min

Settings	Description	Options
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.  Pressing 'Continue' 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.  If the symbol appears on a tile, click it to view error code to fix the problem. If necessary, contact our Technical Supports	
Diagnostic	This page displays various information that may be useful if our Technical Support team. No configuration is possible from	•
Factory reset	Two possible options:  Equipment configuration: Resets equipment-specific parameters, such as temperature formed and the Wi-Fi connection, will remain unchanged.  Device Reset: Resets all custom data and previous settings, restart the installation process from scratch.	at, setpoints, schedules,

# Summary of settings

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

	TH6250WF	Sinopé app
Heating/Cooling setpoint Delta	Х	Χ
Installation type	Х	Χ
Balance point	X	Χ
Temperature calibration	Х	Χ
Compressor min. run time	Х	Х
Compressor min. off time	Х	Х
Auxiliary heating min. run time	X	Χ
Heat pump try time	Х	Χ
Equipment testing	Х	
Diagnostic	Х	
Factory reset	Х	

# System definition

#### Temperature controller

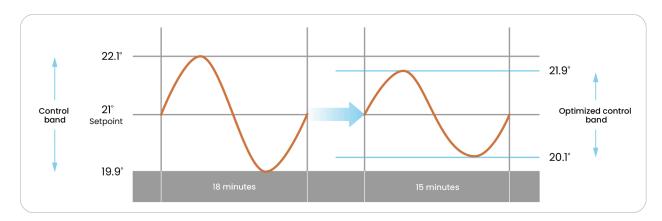
The TH6250WF uses an adaptive deadband controller with a programmable cycle length. The thermostat's control band automatically adjusts to achieve the desired cycle length for your system.

**Note:** The control band represents the range between the room's maximum and minimum temperatures when the system operates at 50% power, which directly affects 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 heating stages (1 stage of heat pump and 1 stage of auxiliary heating), 1 cooling stage, a fan, and an accessory.

The thermostat activates the auxiliary heating stage only if the room temperature exceeds twice the control band (calculated by the thermostat's adaptive controller; see the "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 the event 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**

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

#### **Humidifier**

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 the ventilation is activated and humidification is needed.

The thermostat offers two humidity management modes: Automatic and Manual.

- **Manual mode:** Allows you to manually select the desired humidity level (in %). The system will maintain this level regardless of the outside temperature.
- Automatic mode: The humidity level is automatically adjusted based on the outside temperature. This approach optimizes comfort while reducing the risk of condensation, particularly on windows during cold periods. The curve used to determine the humidity percentage in automatic mode is based on the following reference: ASHRAE HVAC Handbook, Chapter 22 Table 1: Maximum Relative Humidity in a Space for No Condensation on Windows<sup>3</sup>.

You can also apply an offset in **Auto mode** to lower the target humidity level further, helping to prevent excessive condensation.

 $<sup>^3 \</sup> https://www.ashrae.org/file%20 library/technical%20 resources/covid-19/si\_s20\_ch22.pdf$ 



25

**Auto** and **Manual** mode management is also available for **dehumidification** and the **air exchanger**.

#### **Dehumidifier**

A dehumidifier can be connected to the thermostat to control the home's humidity level. The ventilation and dehumidifier will activate simultaneously. The option of manual or automatic control applies to the humidifier as well.

#### Air exchanger

After selecting this accessory, you can force air exchange from the home menu by choosing one of the following options:

Option	Description
OFF	No air exchange
20 min/h (default)	20 min air exchange every hour
40min/h	40 min air exchange every hour
Continuous	Continuous air exchange

The air exchanger can also be used **to control humidity levels**. If the humidity inside the home is too high and outdoor conditions allow, the exchanger will be activated to dehumidify the air based on the set point defined in the parameters—either in automatic or manual mode, as mentioned above.

# **User guide**

#### Main screen



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

#### Menu



# Interface



Your system is currently cooling



Your system is in auxiliary heating mode

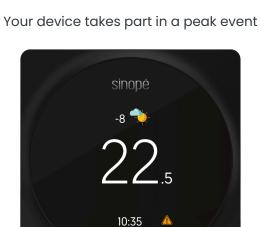


Your system is presently heating



Your system is in dual-energy mode





An error is detected. Press the screen to obtain details



Your device is not connected to Wi-Fi



Outdoor temperature settings prevent system activation

#### Wi-Fi connection

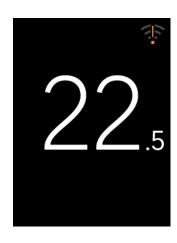
You can connect your thermostat to Wi-Fi in two ways:

- Set up with Sinopé Neviweb
- Set up with Apple Home

We recommend starting with the setup through the Sinopé Neviweb app. This platform lets you easily configure all your thermostat settings on your smartphone. Additionally, the Sinopé neviweb app enables you to display weather conditions on the screen and access various features on the platform. Later on, you can also add your device to Apple Home.

### Wi-Fi connection with Sinopé

Tap the Wi-Fi icon on the screen.



#### 2 Tap on 'Sinopé'.

By choosing Sinopé, you can configure all your thermostat settings on your smartphone, enjoy features like weather displayed on the screen, and access several functionalities within the platform.

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



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



Once the Wi-Fi connection is complete, **tap the** tile for your thermostat in the Sinopé Neviweb app.



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



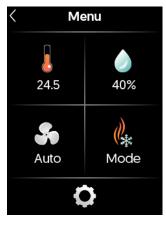
# **Association with Apple Home**

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

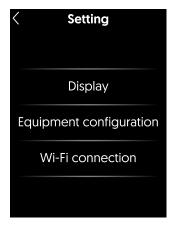
Tap on the main screen to access the menu.



2 Tap on to access settings.



Tap on 'Wi-Fi Connection'.



Then tap on 'Apple Home Configuration.'.



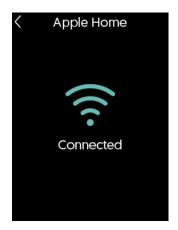
Follow the on-screen steps and tap 'Connection'.



6 Follow the steps displayed on the screen.







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

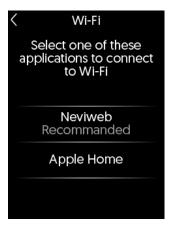


# Wi-Fi connection via Apple Home

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



7 Tap on 'Apple Home'.



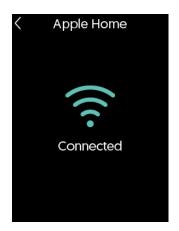
3 Follow the on-screen steps and tap 'Connection'.



#### Follow the steps displayed on the screen.







We recommend continuing the setup and adding your thermostat to the **Sinopé Neviweb** application.

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

Additionally, the Sinopé Nerviweb app allows you to display weather conditions on the thermostat's screen and access 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.



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.



#### Explore more with the Sinopé Neviweb app!

The Sinopé 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.

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

Discover additional features available in Sinopé for the smart thermostat:

- Schedule filter change reminders: Ensure indoor air quality.
- Adjust screen brightness: Tailor the screen's responsiveness to your preferences.
- Screen access control: Explore different access levels to restrict access for children or in commercial settings.
- Change the 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 Sinopé application, or when connecting to other platforms, we invite you to consult Sinopé's support website by visiting <a href="https://support.sinopetech.com/en/">https://support.sinopetech.com/en/</a>.

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

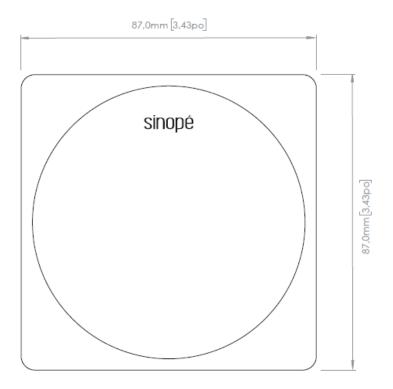


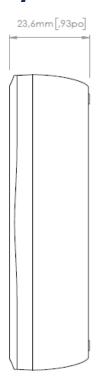
## 3-year Limited Warranty

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. SINOPÉ TECHNOLOGIES INC. is not required to provide replacement parts or repair services after the warranty period expires.

## **Technical information**

### Smart Wi-Fi thermostat for central system





**Connectors** See the information on the mounting plate

Power supply 24V AC

Screen 2.4" color TFT touchscreen 240 px X 320 px

**Dimensions(W x H x D)** 87 mm (3.43 in) X 87 mm (3.43 in) X 23,6 mm (0.93

in)

Operating temperature  $0 \, ^{\circ}\text{C} \text{ to } 50 \, ^{\circ}\text{C} \text{ (32 } ^{\circ}\text{F to } 122 \, ^{\circ}\text{F)}$ 

Storage temperature -20 °C à 50 °C (-4 °F à 122 °F)

**Sensors** Humidity sensor

Proximity sensor

Light sensor for adaptive display

**Communication protocol** Protocol: Wi-Fi

Standard: IEEE 802.11 b/g/n

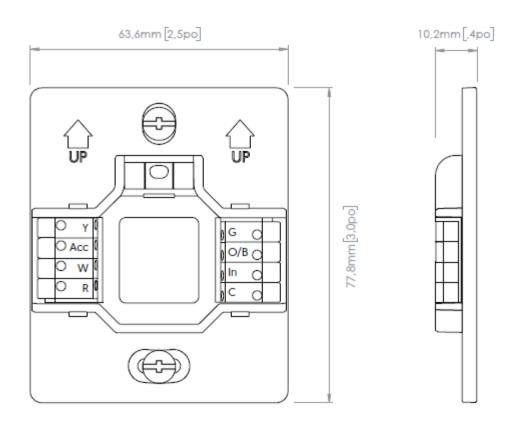
Frequency: 2.4 GHz Encryption key: WPA2

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

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.

Sinopé® 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:

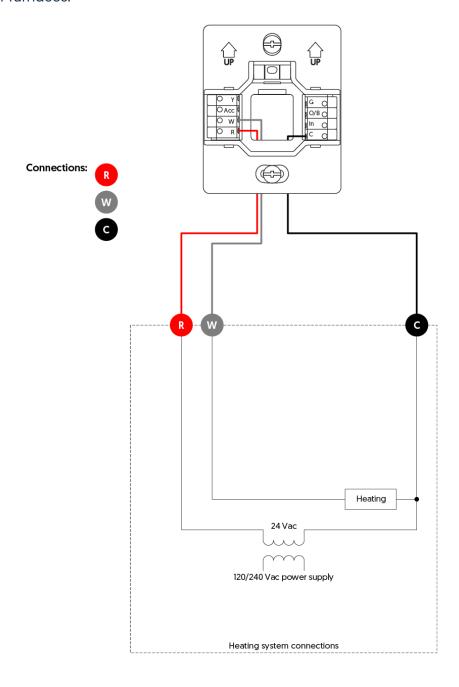
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# Wiring diagrams

## **Conventional system**

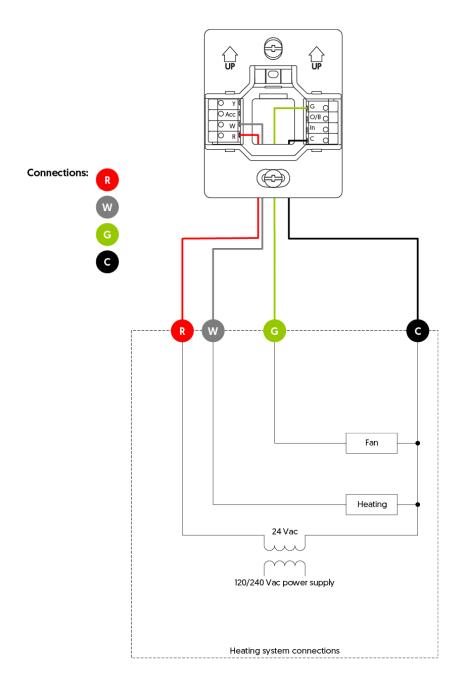
### Wiring 1: 1H

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



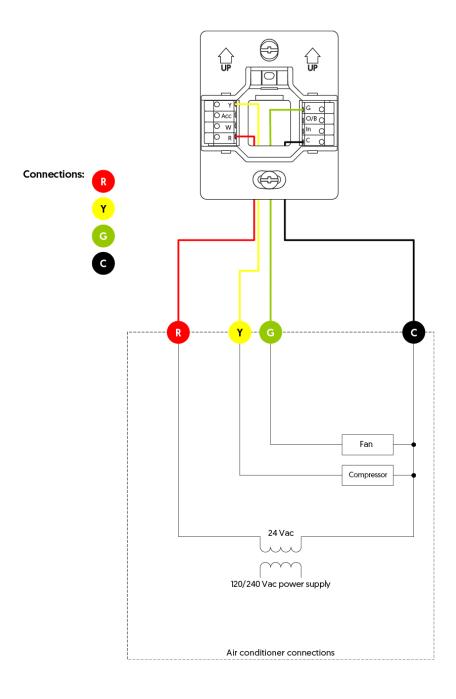
### Wiring 2: 1H

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



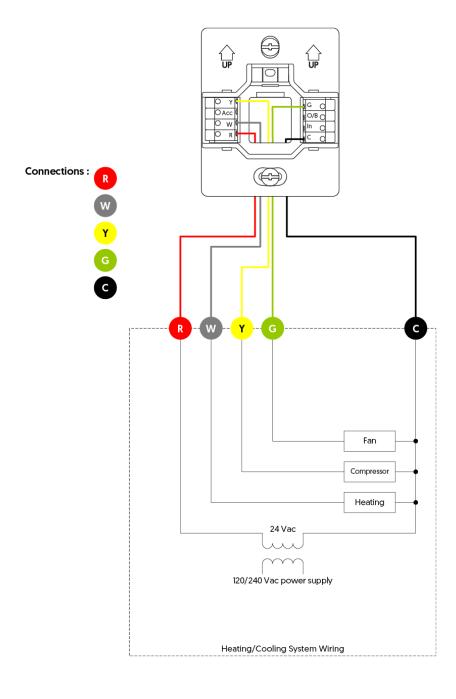
### Wiring 3: 1C

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



### Wiring 4: 1H1C

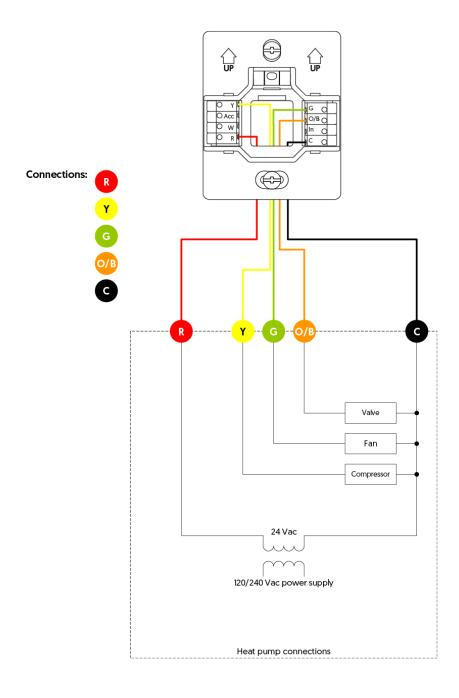
This system refers to a heating, ventilation, and air conditioning system designed for a single heating and single cooling stage.



#### **Heat pump**

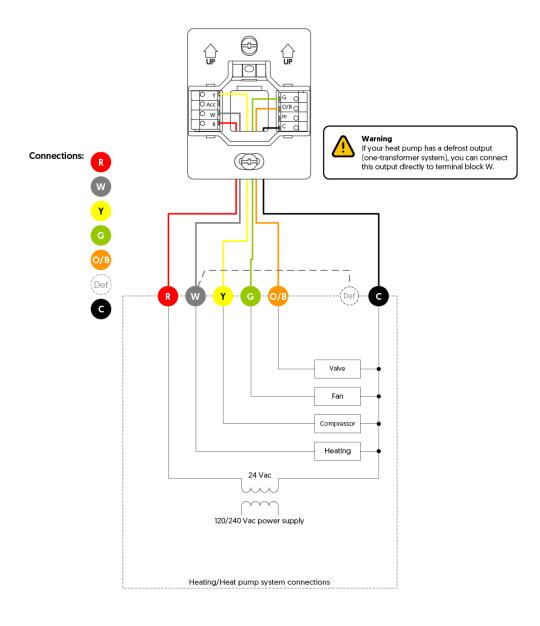
#### Wiring 5: 1H1C

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



#### Wiring 6: 2H1C

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

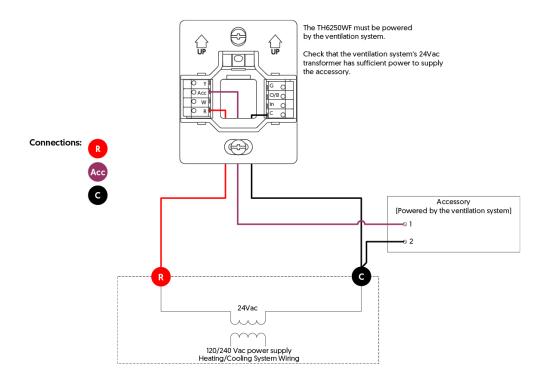


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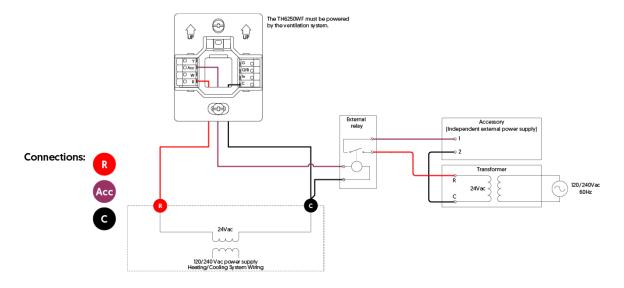
#### **Additional system**

## Wiring 7: Humidifier / Dehumidifier / Air exchanger

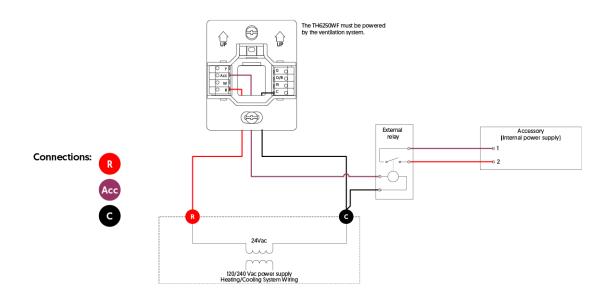
Humidifier, dehumidifier, or air exchanger powered by the HVAC system.



# Humidifier, dehumidifier, or air exchanger with an independent external power supply

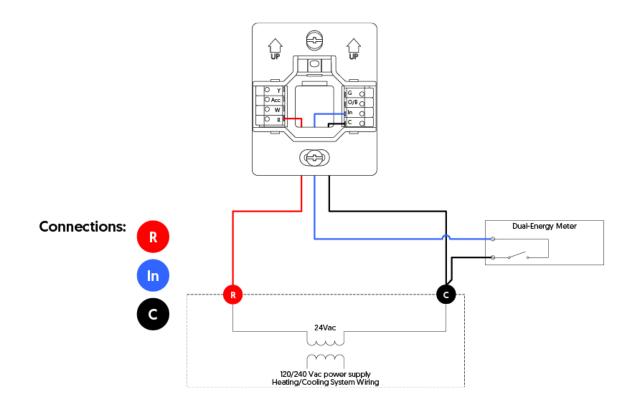


# Humidifier, dehumidifier, or air exchanger with an independent internal power supply



## Wiring 8: 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.



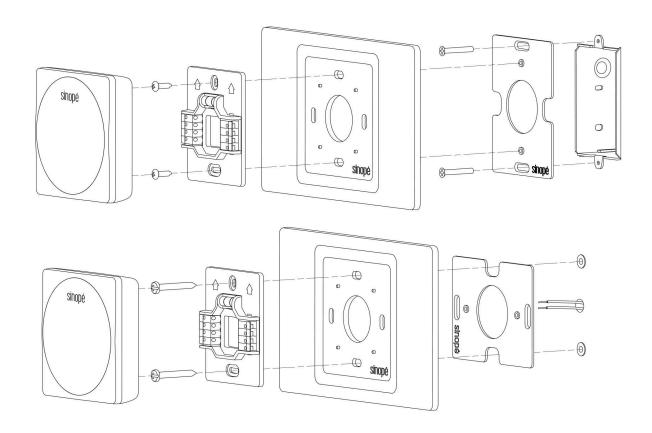
#### AC6500-01 Decorative Mounting Plate (sold separately)

**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

#### Installation diagrams for the AC6500-02 decorative mounting plate:

