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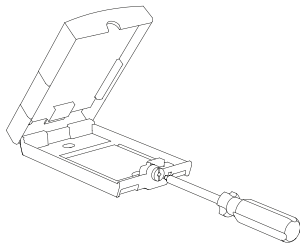
## TH1400ZB Installation Guide

Smart Low Voltage Thermostat [24 Vca]

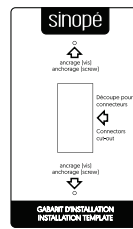
zigbee 3.0

### INSTALL YOUR THERMOSTAT

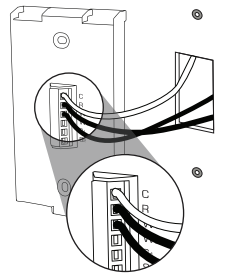
- 1 Unlock and lift the thermostat cover.



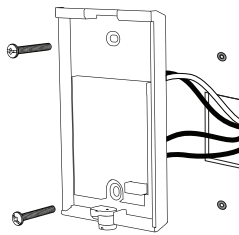
- 2 If necessary, mark and drill the appropriate fastening holes using the installation template. If needed, use the wall anchors included.



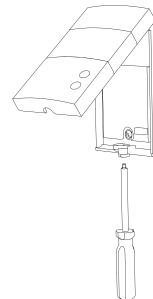
- 3 Depending on the heating system, insert each wire into its terminal and screw firmly. [See connection layouts outlined in the following pages.]



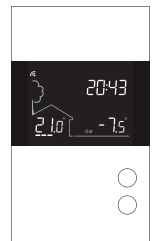
- 4 Use the provided screws and wall anchors to fix the thermostat's base on the wall.



- 5 Replace and lock the thermostat cover.



- 6 Power up the thermostat.



### AUXILIARY OUTPUT

The thermostat provides an auxiliary heating output that can act as a second stage of heating when controlling ambient temperature.

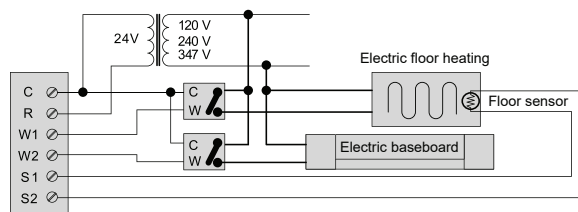
If the room temperature is too far from the setpoint or the main stage of heating has difficulties raising the temperature, the auxiliary output activates the secondary heating source to reach the set temperature.

Both outputs can control different types of heating loads and can be configured in the user settings.

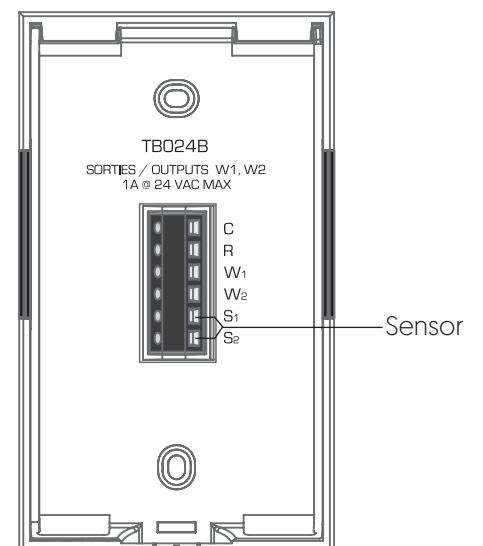
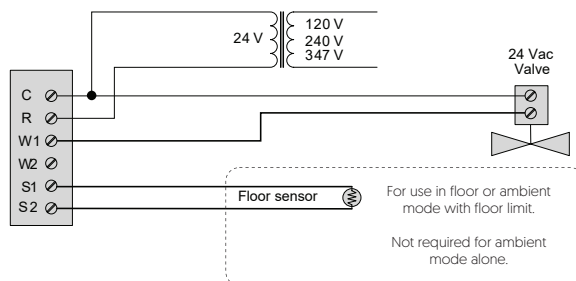
### CONNECTION OF THE FLOOR SENSOR (OPTIONAL)

Only for control applications in floor (F) mode or with floor limit.

Electric floor heating with electric baseboard on the 2nd heating stage

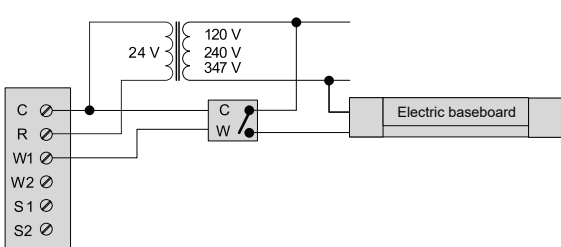


Hot water valve



### WIRING LAYOUT

Electric baseboard

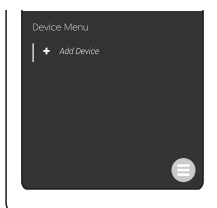


### ADD YOUR THERMOSTAT TO THE GT130 GATEWAY AND NEVIWEB

- 1 If you do not have an account yet, download the Neviweb app for iOS or Android to create an account and add your device.



- 2 Tap the then select "Add Device".



- 3 Follow the steps of the Installation Wizard.

### CONNECT YOUR THERMOSTAT TO THE GT130 GATEWAY OR A COMPATIBLE ZIGBEE SYSTEM

- 1 Initiate the connectivity session by pressing the RF signal button on the GT130 gateway. The indicator light will start flashing.

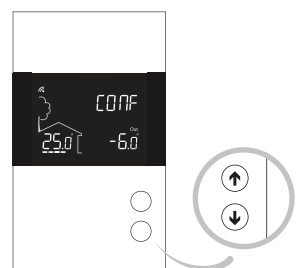
Compatible Zigbee gateway: refer to the installation guide for the latter.



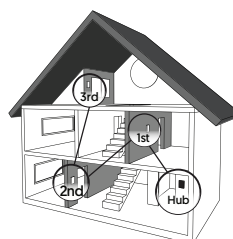
- 2 Connect your thermostat to the network by pressing briefly and simultaneously on the and buttons.

**On the thermostat display:** **Blinks:** Connecting  
**Remains lit:** Connected

If the connectivity fails, the symbol will disappear from the display. Refer to our Website to troubleshoot the unit.



- 3 Connect all your thermostats the same way, by going to the next closest thermostat.




- 4 When all your devices are connected, close the connectivity session of your GT130 gateway or your compatible Zigbee gateway.





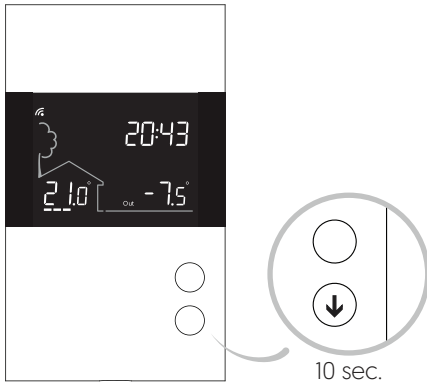
## USER SETTINGS

All of the thermostat's settings can be set through your compatible Zigbee hub. However, if you have not connected your thermostat to your Zigbee network and wish to change the temperature format or the control cycle, you need to:

Lower the setpoint to its minimum and hold the  button for 10 seconds to access the menu.

Press the  or the  button to change the setting.

Press the  and the  buttons simultaneously to save and go to the next parameter. Continue to press until the end of the list to exit the menu.



## The thermostat features two temperature regulation modes:

**A mode (default):** Regulation of ambient temperature with the possibility to limit floor temperature through an external temperature sensor.

**F mode:** Regulation of floor temperature through an external temperature sensor with the possibility to limit ambient temperature.

## PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE:

#	Name	Parameters & settings	Display
1	Temp	Temperature format °C or °F - [Default: °C]	°C
2	Control	Control mode of thermostat A (Air), F (Floor) - [Default: A]	A
3	Min	Minimum setpoint 5 °C to 36 °C - [default: 5 °C]	5.0°
4	Max	Maximum setpoint 5 °C to 36 °C - [default: 36 °C]	36.0°

## PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE (CONTINUED):

#	Name	Parameters & settings	Display
5	Max Air	Maximum ambient temperature limit [Only visible in F mode] 5 °C to 36 °C - [Default: OFF]	OFF
6	Max Floor	Maximum floor temperature limit [Only visible in F mode] 7 °C to 36 °C - [Default: OFF]	OFF
7	Min Floor	Minimum floor temperature limit [Only visible in A mode] 5 °C to 36 °C - [Default: OFF]	OFF
8	Cyc	Cycle length / Main output 15 sec, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min - [Default: 15 min]	15
9	Aux Cyc	Cycle length / Auxiliary output OFF, 15 sec, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min - [Default: OFF]	OFF
10	Sens	Floor sensor 10K or 12K - [Default: 10K]	10
11	PE	Circulator pump's anti-seizure ON or OFF [Default: OFF]	OFF
12	POL	Polarity of thermostat outputs NO - normally open or NC - normally closed [Default: NO]	NO

## PARAMETERS THAT CAN BE CONTROLLED FROM THE DEVICE (CONTINUED):

### 5) Maximum limit of the ambient temperature (F mode)

Thermostat limits floor heating so as not to exceed the set ambient temperature limit.

### 6) Maximum floor temperature limit (A mode)

The thermostat limits floor heating to the set temperature to ensure it does not exceed the selected limit. This parameter is ideal for protecting engineered wood floors. [Verify with your flooring manufacturer to determine the heat limit.]

This parameter is only usable when a floor sensor is connected to the thermostat.

### 7) Minimum floor temperature limit (A mode)

The thermostat limits the minimum temperature of the floor in order to keep it at a comfortable temperature.

This parameter can only be used when a floor sensor is connected to the thermostat.

### 8) and 9) Main and auxiliary output cycle length

The thermostat has a main and an auxiliary output. Select the appropriate cycle length based on your heating system. The selection of an inappropriate cycle length may damage your unit.

Minimum cycle length (min)	0.15	5	10	15	20	25	30
Convector or baseboard heater activated by electronic relay [SSR]	×						
Fan-forced convector activated by electronic relay [SSR]		×	×				
Fan-forced convector or baseboard heater activated by mechanical relay			×	×			
Hydronic heating pump system				×	×	×	×
Furnace				×	×	×	×

### 11) Circulator pump's anti-seizure


When the thermostat is not heating for an extended period, this parameter will activate the main output during 1 minute every 24 hours to ensure the hydronic system pump does not seize.

### 12) Polarity of thermostat outputs




When the output polarity is set to "Normally Open" (NO), the thermostat activates its output and supplies a 24V voltage when heating is needed.

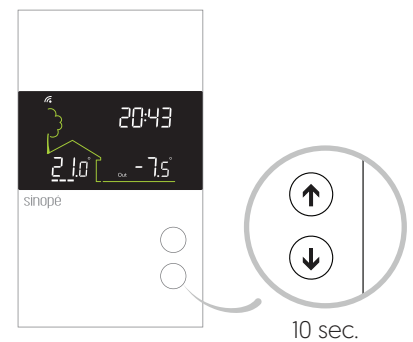
When the output polarity is set to "Normally Closed" (NC), the signal is reversed.

## DISCONNECT YOUR THERMOSTAT FROM THE GTI30 GATEWAY

- 1 Select the device from the **Device List** in Neviweb.
- 2 Tap on the **Settings icon** .
- 3 Tap on **Delete**, then confirm the deletion.

## DISCONNECT YOUR THERMOSTAT FROM A COMPATIBLE ZIGBEE SYSTEM

To disconnect your thermostat from a compatible Zigbee hub, press the  and  buttons simultaneously for 10 seconds. The  symbol will disappear from the display.



## TECHNICAL SPECIFICATIONS

**Operating voltage:** 24 Vac

**Maximum consumption:** 150 mA @ 24Vac  
**Maximum load - main output:** 1 A  
**Maximum load - auxiliary output:** 1 A  
**Setpoint range:** 5 °C to 36 °C [41 °F to 97 °F]  
**Display range:** 0 °C to 70 °C [32 °F to 99 °F]  
**Resolution:** ± 0,5 °C [± 1 °F]  
**Storage:** -20 °C to 50 °C [-4 °F to 122 °F]

**Protocol:** Zigbee 3.0  
**Frequency:** 2.4 GHz  
**Transmission power:** +20 dBm  
**Receiver sensitivity:** -108 dBm  
**Encryption key:** AES-128  
**Auxiliary output:**  
**Compatibility:** 10K Ω / 12K Ω sensors at 25 °C  
 Floor sensor not included

- Compatible with:**
- Baseboard heater activated by mechanical relay or electronic relay [SSR]
  - Fan-forced convector activated by mechanical relay or electronic relay [SSR]
  - Electric floor heating [activated by a relay]
  - Hydronic floor heating
  - Hydronic heating system
  - Furnace [without fan control]

Transmitter Module IC : 22394-ZBBI501 / FCC ID:2AK2T-ZBBI501

This device complies with Industry Canada license exempt RSS standard[s]. Operation is subject to the following two conditions: [1] this device does not cause interference, and [2] this device must accept any interference, including interference that may cause undesired operation of the device.

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.

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660-0735-0020-G

## 3-year limited warranty

SINOPE TECHNOLOGIES INC. 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. 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 SINOPE 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.

For more information, visit our Website:  
[www.sinopetech.com](http://www.sinopetech.com)

