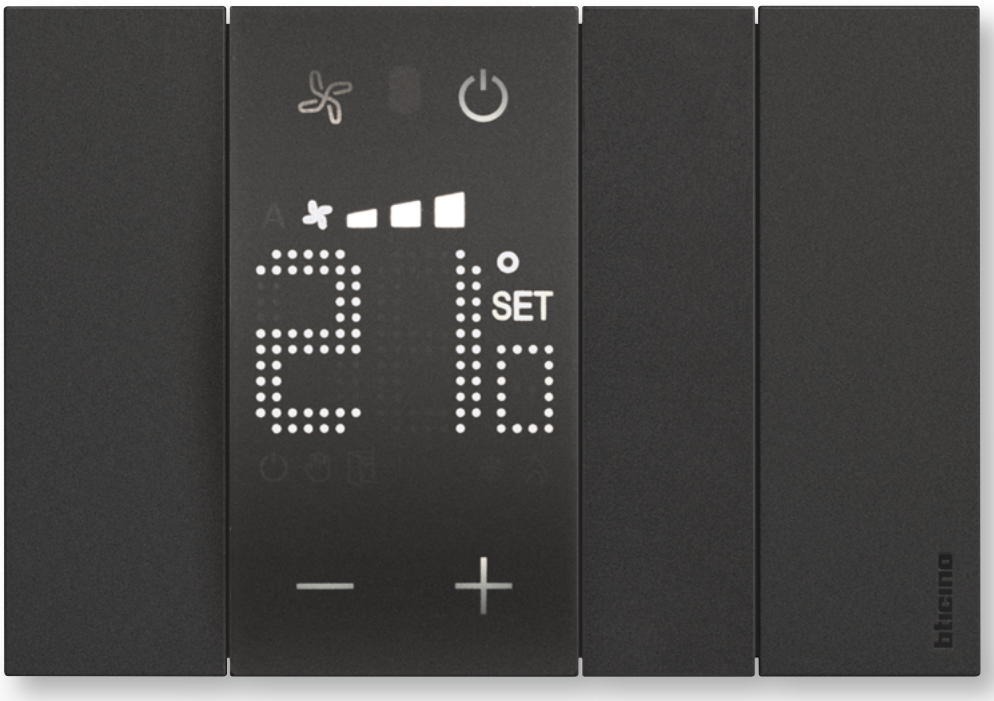
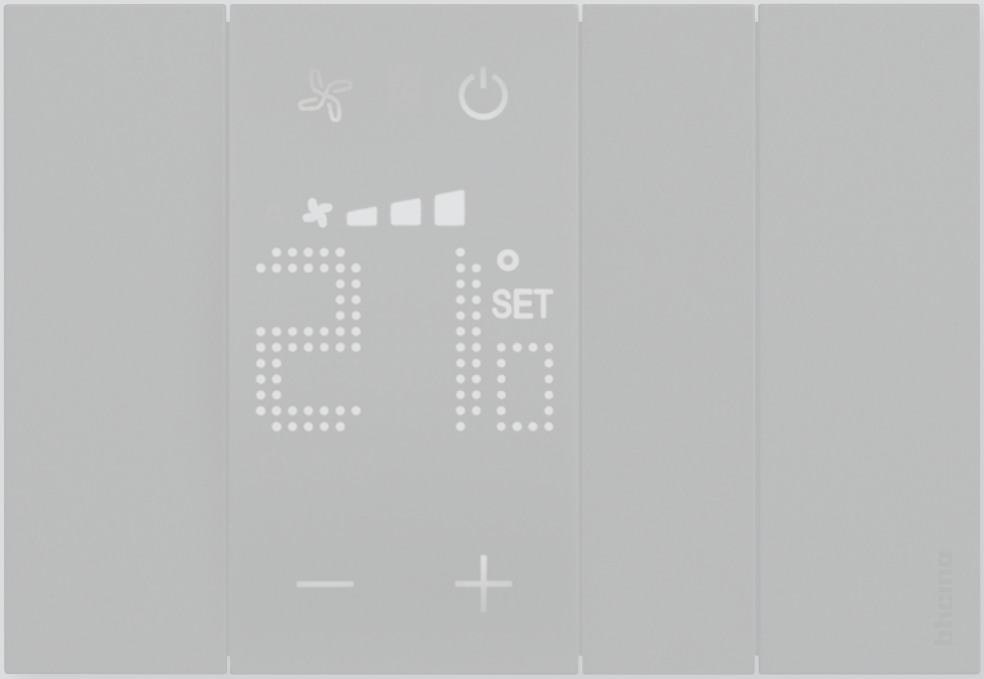
Room thermostat
KW4691- KG4691- KM4691

User manual



Room thermostat

User manual



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Introduction

It is possible to use the thermostat with display both with heating and cooling systems, locally (using the available keys) and remotely (using the Hotelsupervision software, MyHOME_Up or HOMETOUCH - see the Thermostat Use) section.
The LED display shows the current mode of operation (Antifreeze/Thermal Protection or Heating/Cooling), the room temperature measured, the temperature set point, the fan-coil speed, the window contact status and the zone status.

***Note**: the background and icons shown may differ from those on the device.*

Fundamental concepts

Heating function

If the temperature measured is below the reference set point value, the heating system is activated and the corresponding symbol appears on the display.

Cooling function

If the temperature measured is above the reference set point value, the cooling system is activated and the corresponding symbol appears on the display.

Automatic switching mode

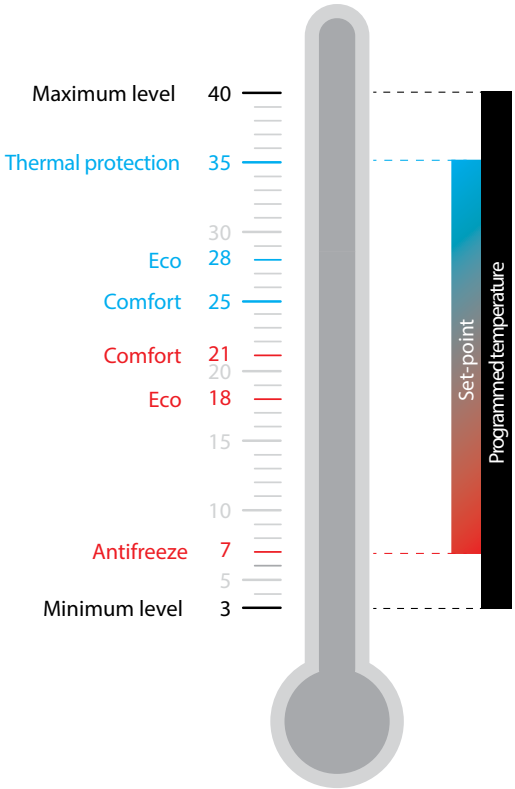
The thermostat can be programmed (ask your trusted installer) for automatic switching between heating and cooling based on set thresholds.

Programmed temperature

Reference temperature based on which the temperature control system switches on or off.
The set value must be between a minimum and maximum range configured by the installer

Set-point

Reference temperatures configured by the installer using MyHOME_Suite and Hotelsupervision (Eco, Comfort and Protection).
After configuration, they can be activated using MyHOME_Up or Hotelsupervision



Protection mode

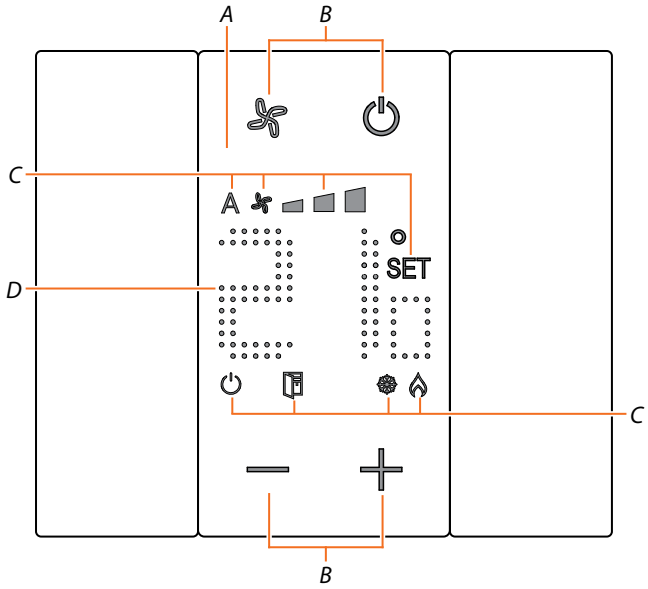
Setpoint that in a heating system sets the minimum safety temperature to 7°C (Antifreeze) and in a cooling system the maximum safety temperature to 35°C (Thermal Protection).
These values may be changed by your installer using MyHOME_Suite and Hotelsupervision.

Window contact

Upon opening of the local contact (e.g. window contact), the display shows the corresponding symbol, which will disappear again once the contact is closed. Using MyHOME_Suite and MyHOME_Up, the installer can set an action or a scenario to be performed upon opening/closing of the contact.

Function	Thermostat	MyHOME_Up	Hotelsupervision	HOMETOUCH
Programmed	YES	YES	YES	YES
Thermal protection/antifreeze	YES	YES	YES	YES
Eco	NO	NO	YES	NO
Comfort	NO	NO	YES	NO

Function keys and notification symbols



A Backlit display

B Function keys (local mode)

C Notification symbols

D Measured/programmed temperature

Function keys		
	ON / OFF key	Switches from ON to OFF: If the thermostat is set to ON, the temperature is regulated based on the programmed temperature. If the thermostat is set to OFF, the system switches to protection mode
	Fan key	To set the fan-coil speed to three different levels plus automatic
— +	Keys for temperature setting	To increase or decrease the programmed temperature value

Note: *when the display is in standby, the function keys are not visible. Touch the display to make them visible*

Notification symbols		
	OFF thermostat	The thermostat is set to Protection mode
SET	Temperature setting	It appears when the temperature is being set
	Heating mode	The system is in heating mode and is ON
	Cooling mode	The system is in cooling mode and is ON
	Automatic Fancoil fan	The fan-coil is in automatic operation mode, based on the set temperature
	Fancoil fan manual adjustment	The fan-coil is manually regulated on 3 speed levels
	Window contact	It appears upon opening of the local contact (e.g. a window)

Thermostat use

You can interact with the thermostat in different ways::

- locally, using the thermostat keys
- using a smartphone with the free MyHOME_Up App installed
- using a PC with the Hotelsupervision software installed
- using a HOMETOUCH internal unit installed as part of the system

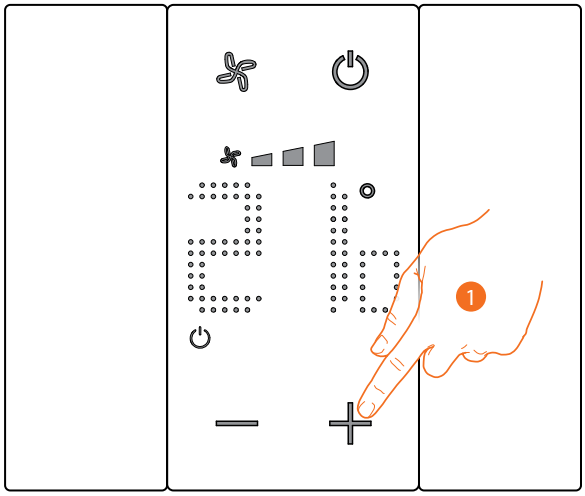
The functions available vary depending on the interaction mode

Function	Thermostat	MyHOME_Up	Hotelsupervision	HOMETOUCH
Programmed temperature	SÌ	SÌ	SÌ	SÌ
Protection mode activation	SÌ	SÌ	SÌ	SÌ
Setpoint Comfort activation	NO	NO	SÌ	NO
Setpoint Eco activation	NO	NO	SÌ	NO
OFF (thermostat OFF)	NO	NO	SÌ	NO
Fan adjustment	SÌ	SÌ	SÌ	SÌ

Local functions

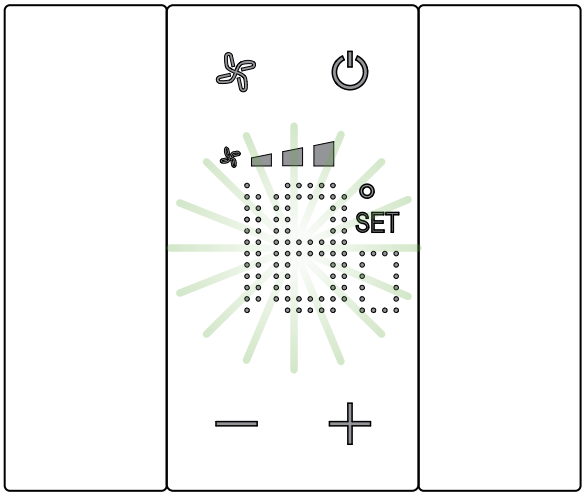
Set the programmed temperature

Using the — + keys, it is possible to change the temperature value that will be used by the temperature control system to switch on or off.
A subsequent remote temperature change will prevail on this setting.
When idle, the display shows the measured temperature and the programming status.



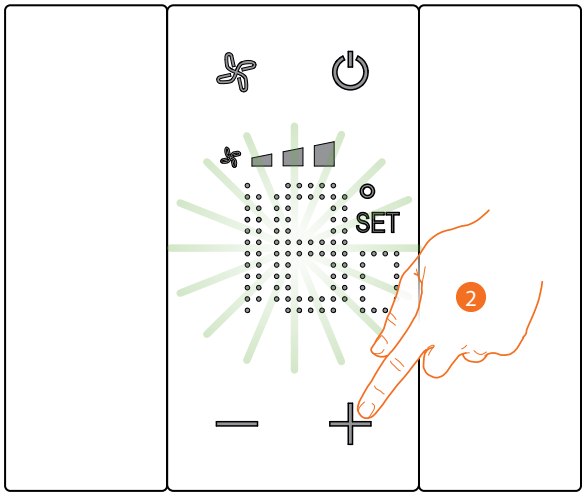
Programming status – Symbol ⏻	
Present	Protection Mode
Not present	Programmed temperature mode

1. Touch the — + keys to set the programmed temperature

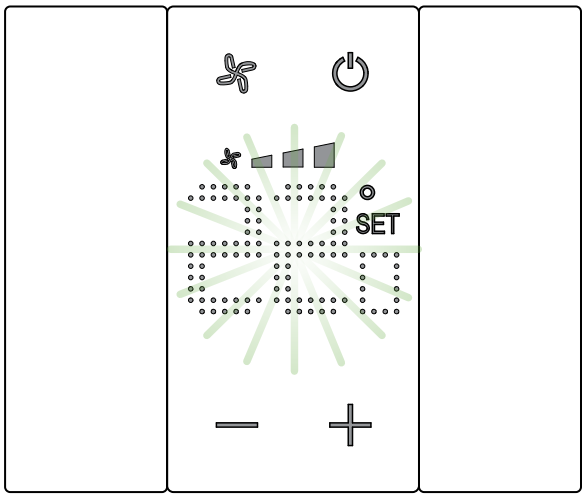


The display shows the SET symbol and the currently programmed temperature. If this value is acceptable, wait for flashing to end. The temperature will not be changed.

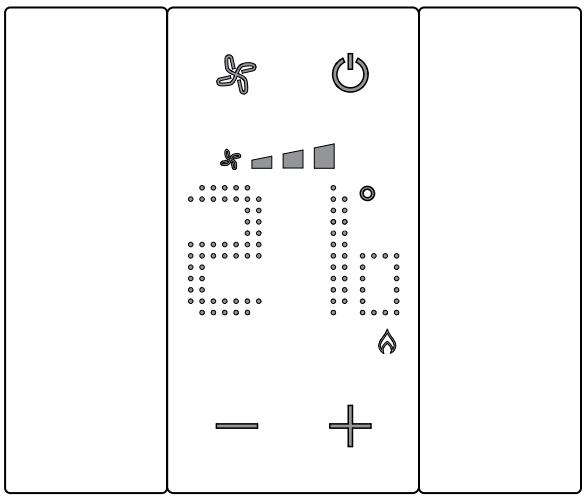
To change the value, before flashing ends:



2. Touch to increase or decrease the programmed temperature

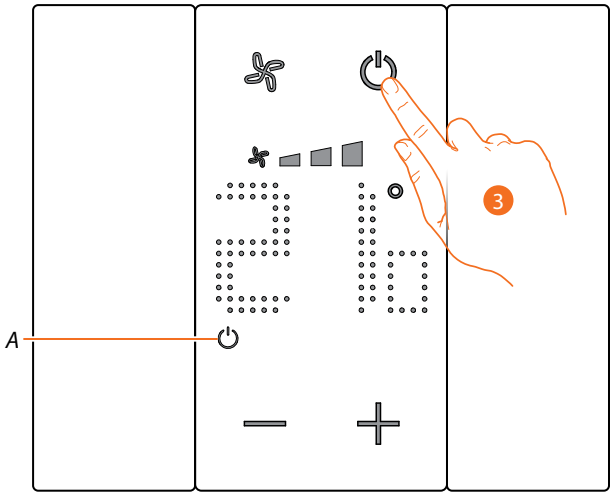


Wait for the end of the flashing.
The temperature is now set to the new programmed value.



After a few seconds, the new setting is saved and the measured temperature appears.
This example shows a set temperature higher than the measured temperature, therefore also displaying the symbol confirming that the heating system is in operation .

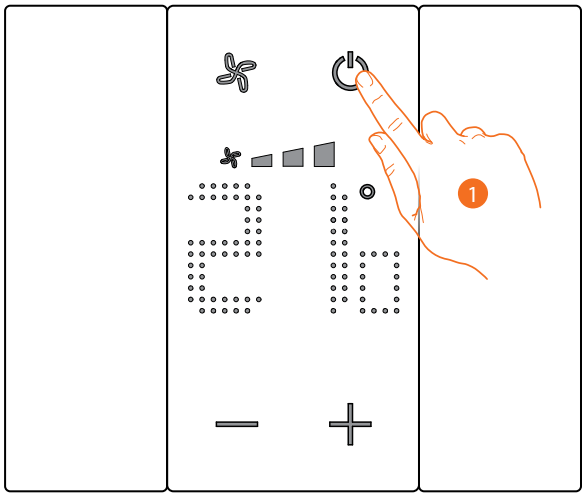
If the symbol (A) appears, the thermostat is set to **Protection Mode**.
To switch to **Programmed Temperature** mode:



3. Touch ON/OFF and restart from item 1

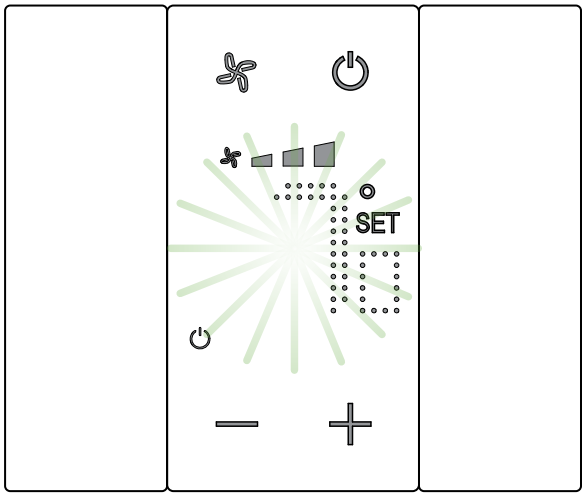
Protection Mode

This function allows you to set the system to Antifreeze (heating) or Thermal Protection (cooling) mode When idle, the display shows the measured temperature and the programming status.

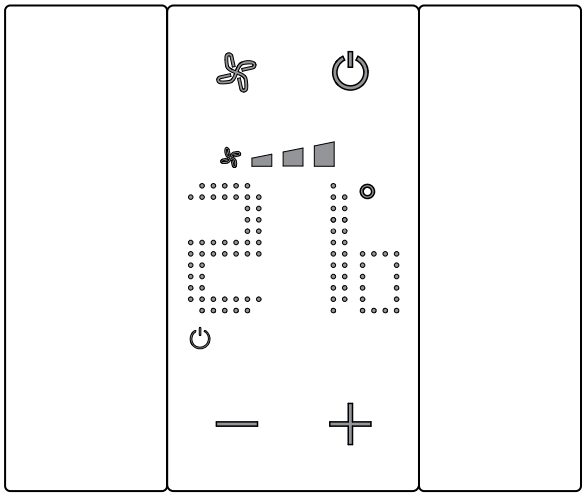


Programming status – Symbol	
Present	Protection Mode
Not present	Programmed temperature mode

1. Touch to set the Protection mode



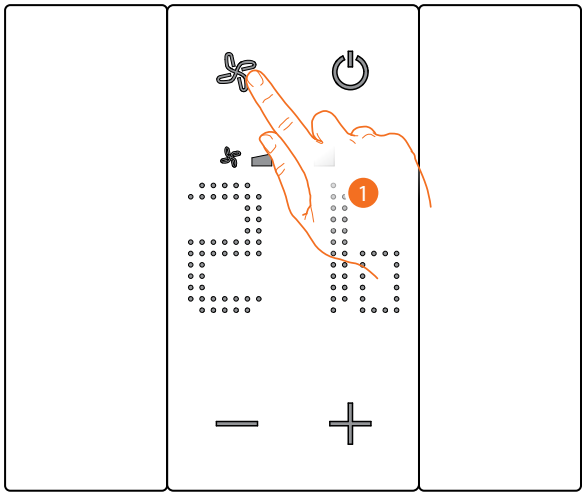
The display shows the SET and symbols, together with the default Antifreeze (7°C) or Thermal Protection (35°C) temperature. Wait for flashing to end.



After a few seconds, the value is saved and the ⏻ symbol appears, to indicate that the mode is active.

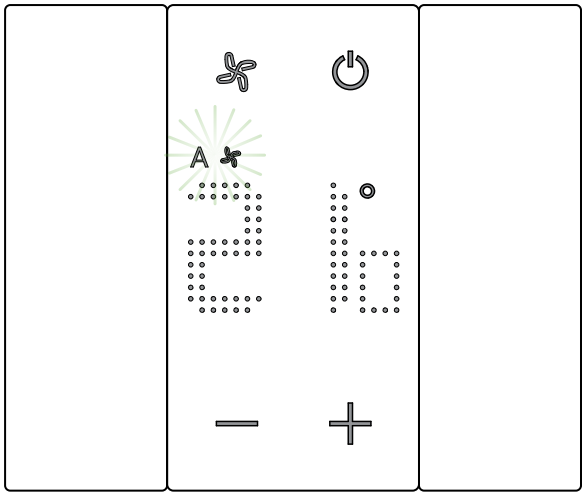
Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted using the dedicated pushbutton.



1. Touch to set the fan speed at the desired level

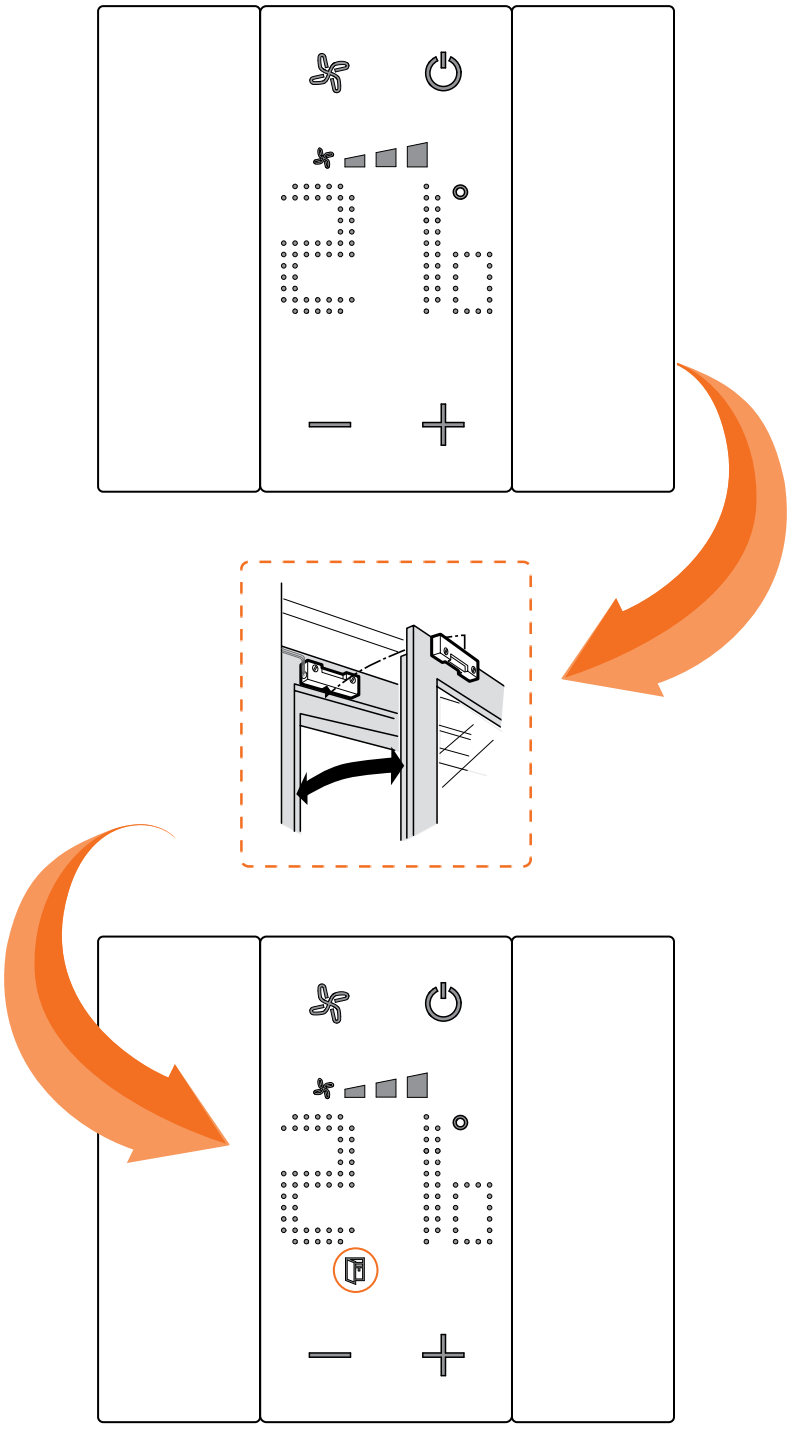
	Speed 1
	Speed 2
	Speed 3
A	Automatic operation



During the adjustment the fan symbol and the segment for the speed selected flash.
After a few seconds, the value is saved and the symbol shows the new adjustment.

Local contact

Upon opening of a local contact (e.g. window contact), the display shows the corresponding symbol, which will disappear again once the contact is closed

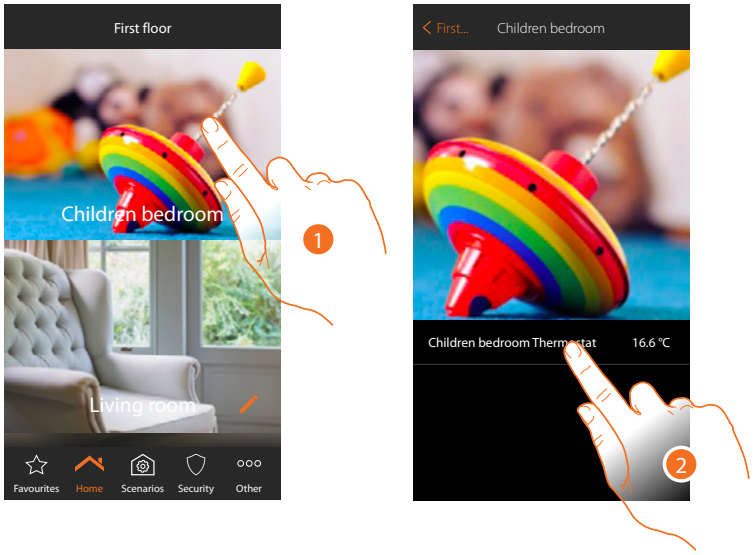


The symbol will disappear when the contact is closed.

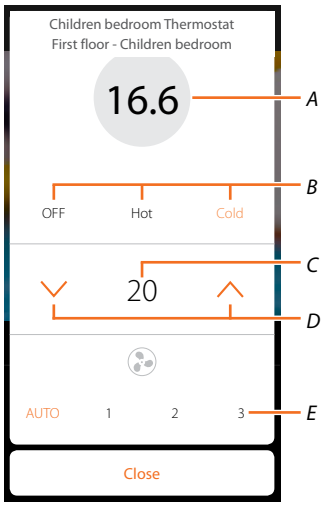
Functions with MyHOME_Up

In order to use the thermostat with MyHOME_Up, it will be necessary to first download the App (for iOS devices from App Store, for Android devices from Play Store), and then connect to the system (for the details see the MyHOME_Up manual).

Access the system



1. In the home page, touch the room for which you want to adjust the temperature
2. Touch the thermostat object



A Display the measured temperature

B Display/enable the operating mode
***OFF**: set the system in protection mode*
***Heat**: sets the system to heating mode and maintains the set temperature*
***Cold**: sets the system to cooling mode and maintains the set temperature*

C Display the programmed temperature

D Set the programmed temperature

E Display/set the FANCOIL fan speed (where present)

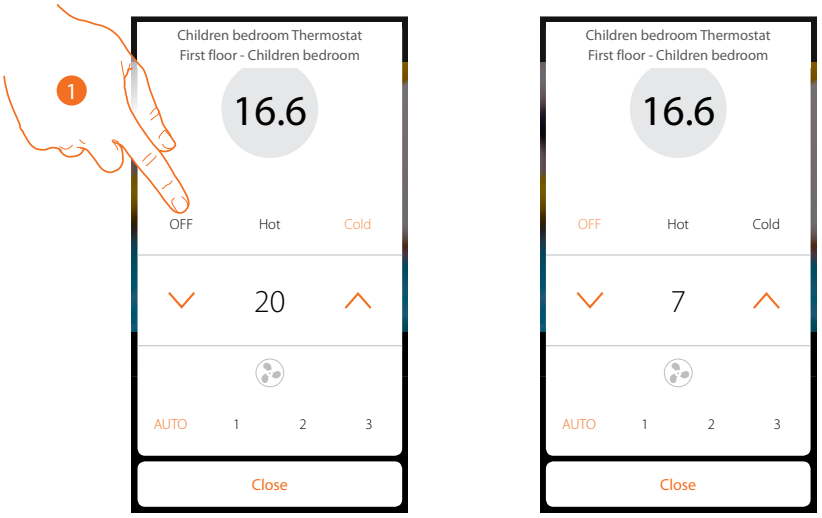
Hot/cold mode

Using this function, it is possible to set the system to heating/cooling and a programmed temperature

1. Touch to set the system mode
2. Touch to set the programmed temperature

Protection Mode

Using this function, it is possible to set the minimum safety temperature of 7°C (Antifreeze) for the heating system, and the maximum safety temperature of 35°C (Thermal Protection) for the cooling system



1. Touch to select the protection mode

Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted

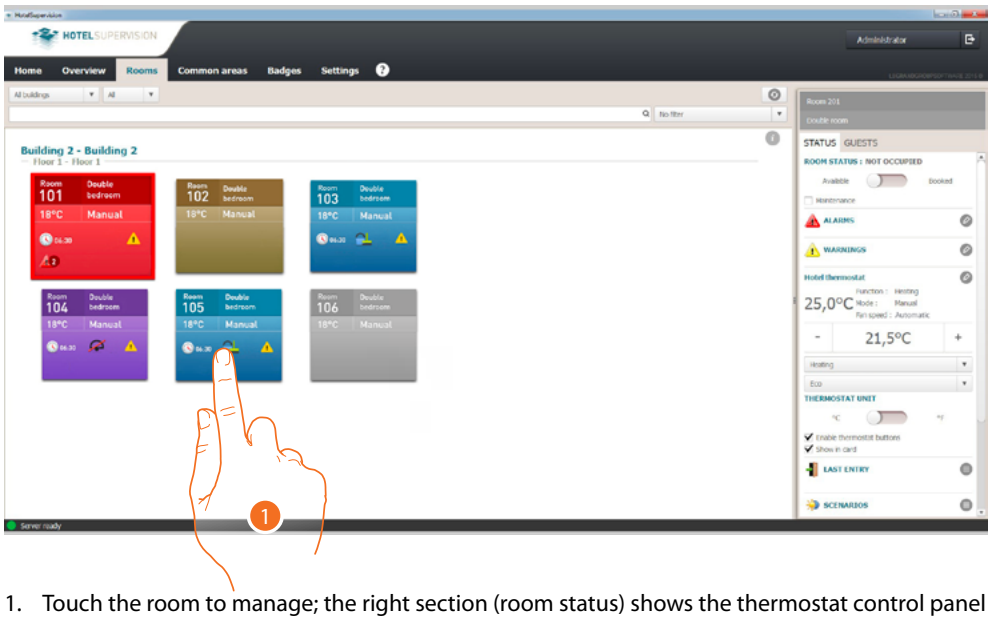
1. Touch to set the fan speed at the desired level

1	Speed 1
2	Speed 2
3	Speed 3
Auto	Automatic operation

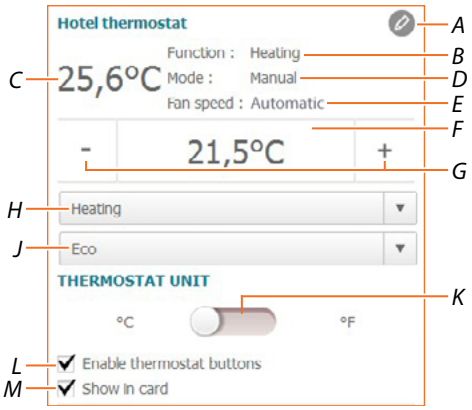
Functions with Hotelsupervision

In order to use the thermostat with Hotelsupervision, this must first be installed on a PC (for the details see the Hotelsupervision software manual).

Start the Client module; this is the system user interface, which gives the possibility of managing the room thermostats from the switchboard.



1. Touch the room to manage; the right section (room status) shows the thermostat control panel



A Advanced settings (see the installer manual)

B Display the system mode

C Display the measured temperature

D Display the thermostat operating mode

E Display the FANCOIL fan speed (where present)

F Display the programmed temperature

G Set the programmed temperature

H Set the system operating mode

J Display the thermostat operating mode(Setpoint)

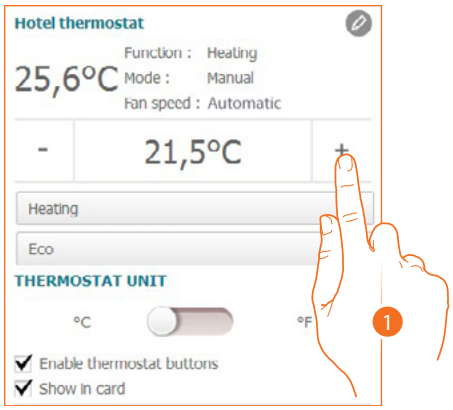
K Set the format of the displayed temperature between Celsius and Fahrenheit degrees

L Enable/disable the thermostat keys. If the function is disabled, it will no longer be possible to interact with the thermostat but only to display the information.

M Enables the display of the measured temperature directly in the room section.

Set the programmed temperature

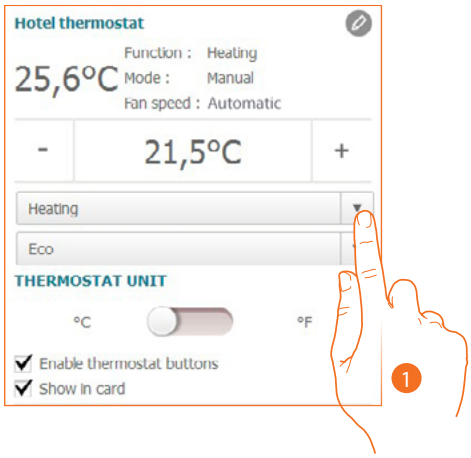
To set the room temperature, use the +/- keys. This new adjustment will delete any previous setpoints and will be active until a new setpoint is set.



1. Touch to increase or decrease the room temperature to the desired level. The system will then be switched on or off based on the measured room temperature

Set the system operating mode

Using this function, it is possible to set the system to heating or cooling, or both.



1. Touch to select the mode among:

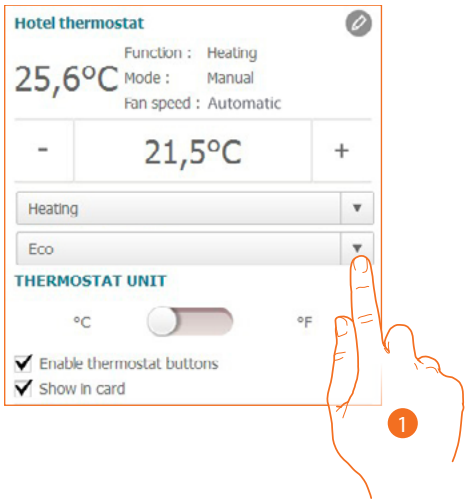
– **Heating**: : if the temperature measured is below the reference set point value, the heating system activates.

– **Cooling**: if the temperature measured is above the reference set point value, the cooling system activates.

– **Automatic switching**: the thermostat can be programmed (ask your trusted installer) for automatic switching between heating and cooling based on set thresholds.

Set the thermostat operating mode

Using this function, it is possible to select the mode that will be used by the thermostat for temperature adjustment.



1. Touch to select the mode among:

– **Eco**: the system only operates based on the energy saving set point set for the heating and cooling functions.

– **Comfort**: the system only operates based on the ideal set point set for the heating and cooling functions.

– **Protection**: in a heating system it sets the minimum safety temperature to 7°C (Antifreeze), and in a cooling system the maximum safety temperature to 35°C (Thermal Protection).

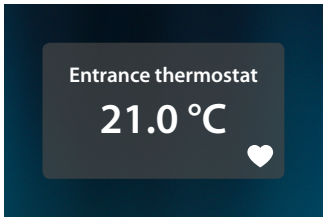
– **Off**: Switches the thermostat off. The system temperature is no longer managed

Functions with HOMETOUCH

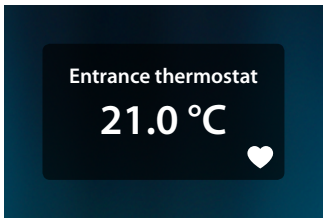
The home temperature may also be adjusted using the thermostat object of the HOMETOUCH internal unit temperature control page.

1. Touch to manage the temperature control system

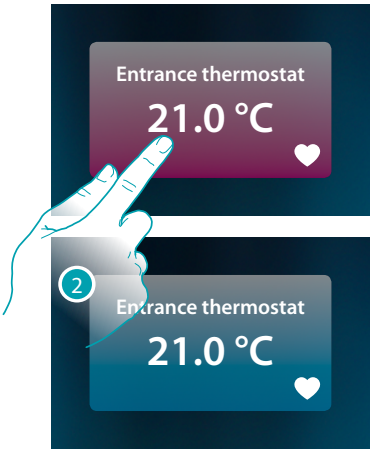
This page includes the thermostats of your home; the object background shows the status of the zone:



Pale background
Zone in manual mode in **Idle** status



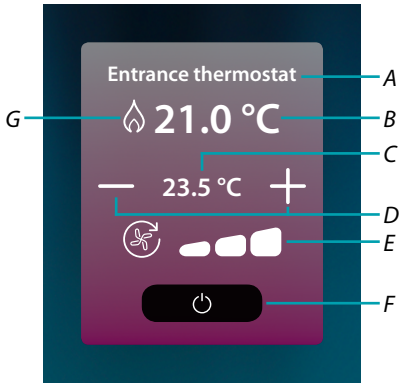
Dark background
Zone in thermal protection/antifreeze mode in **Idle** status



Red background
Zone in one of the two modes and in **Active** status because the measured temperature is below the set temperature (system in Heating mode)

Blue background
Zone in one of the two modes and in **Active** status because the measured temperature is higher than the set temperature (system in air conditioning mode)

2. Touch to open the zone management panel



A *Zone name*

B *Displays the measured temperature*

C *Displays the set temperature*

D *Set the programmed temperature*

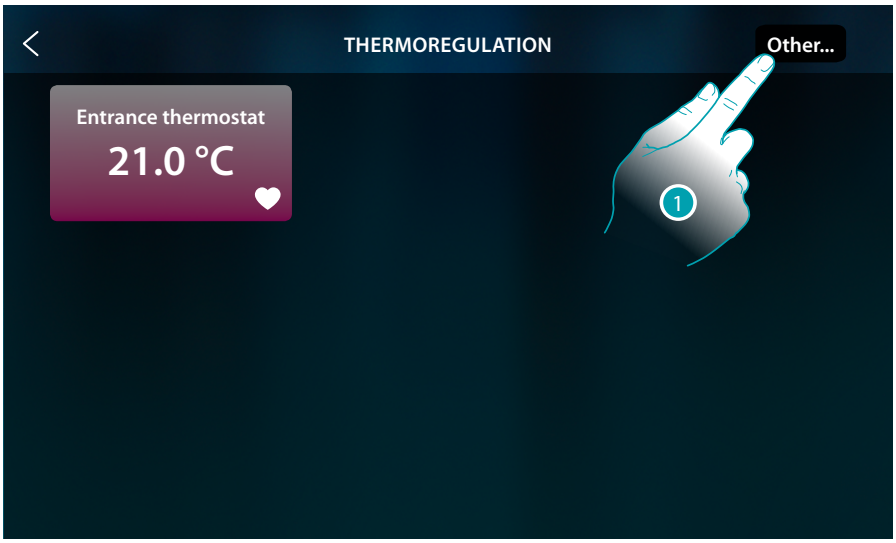
E *Display/set the FANCOIL fan speed (where present)*

F ***Thermal protection/antifreeze mode**:*
Touch to set Antifreeze Mode (heating). The system activates when the measured temperature falls below 7°C.
Touch to set Thermal Protection Mode (heating). The system activates when the measured temperature exceeds 35°C.

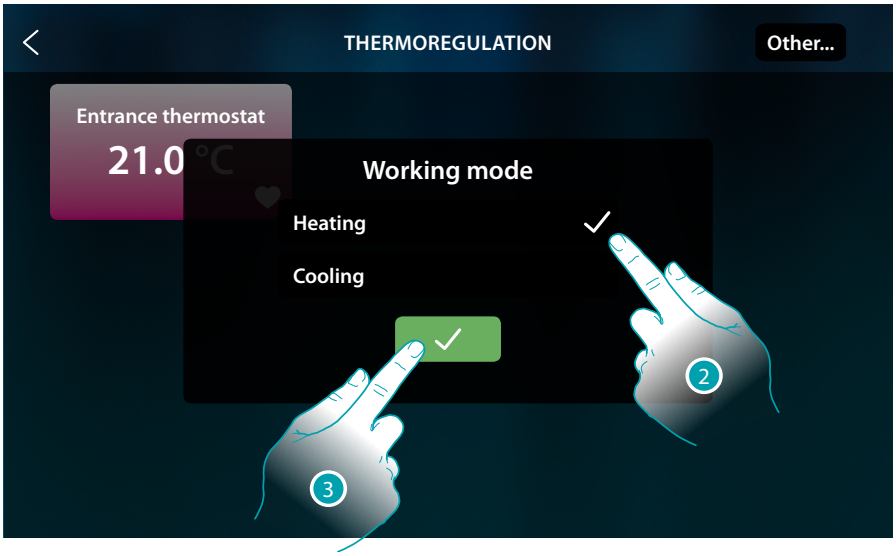
G *Display the system mode*

Heating/ Cooling mode

Using this function, it is possible to set the system to heating or cooling



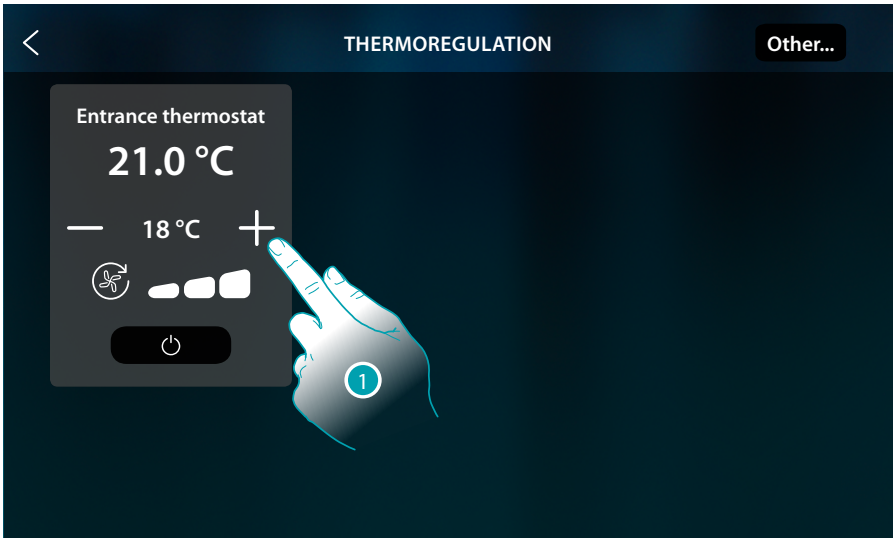
1. Touch to set the system operating mode, either heating or air conditioning



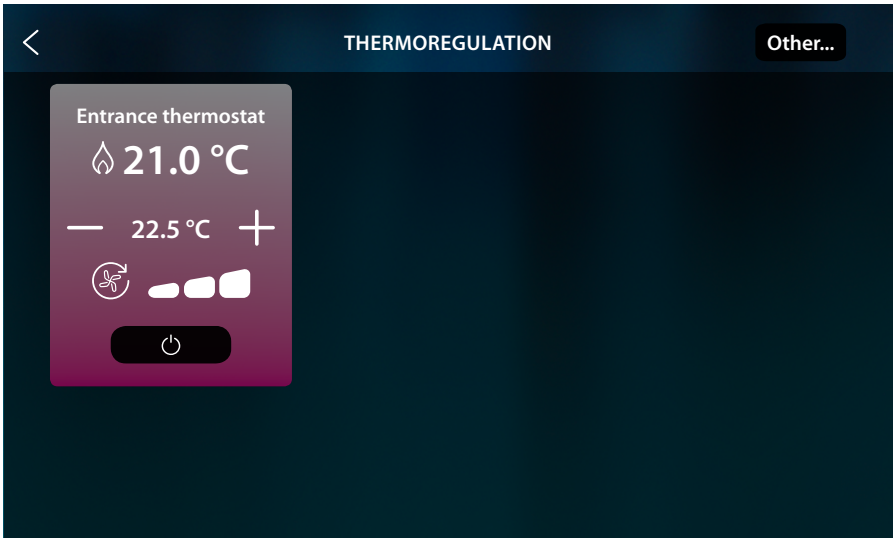
2. Select the operating mode
3. Touch to confirm

Set the programmed temperature

To set the temperature, use the +/- keys. This new adjustment will delete any previous setpoints and will be active until new setpoints are set.



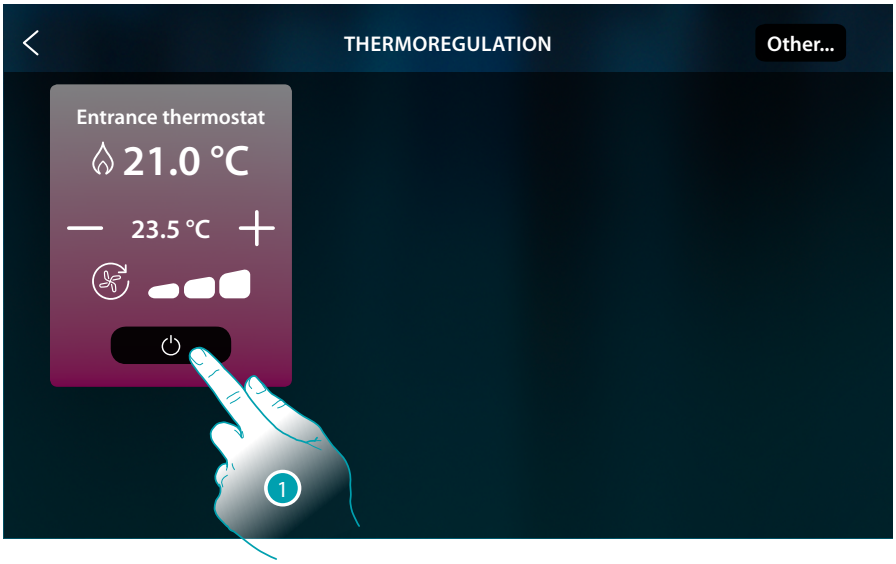
1. Touch to increase or decrease the temperature to the desired level. The system will then be switched on or off based on the measured room temperature



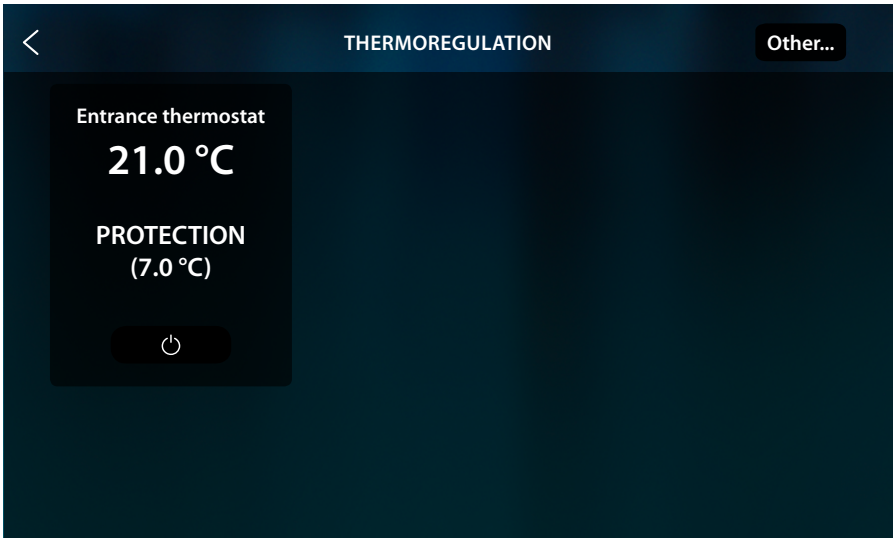
This example shows a set temperature higher than the measured temperature; the background turns red and the symbol appears, confirming that the heating system is in operation.

Protection Mode

Using this function, it is possible to set the minimum safety temperature of 7°C (Antifreeze) for the heating system, and the maximum safety temperature of 35°C (Thermal Protection) for the cooling system



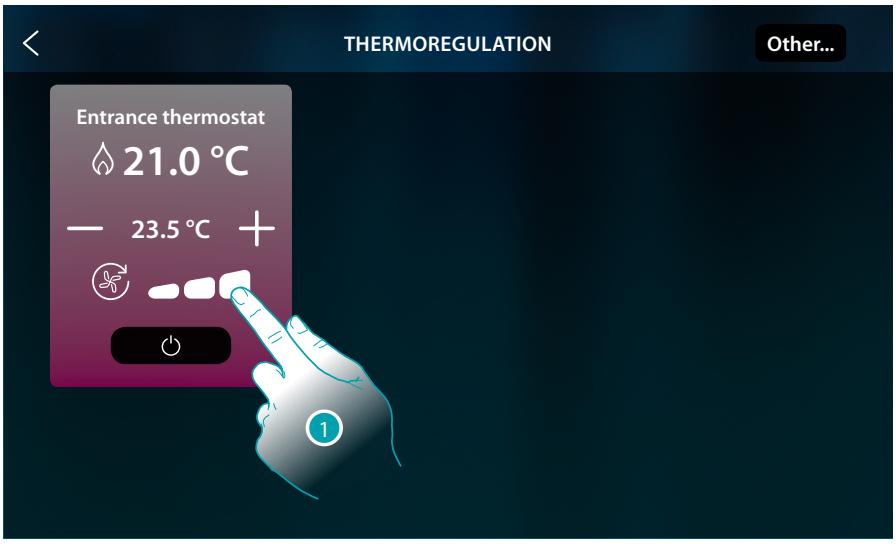
1. Touch to select the protection mode



After a few seconds, the value is saved, the background becomes dark, and a message indicates that protection mode is active.

Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted



1. Touch to set the fan speed at the desired level

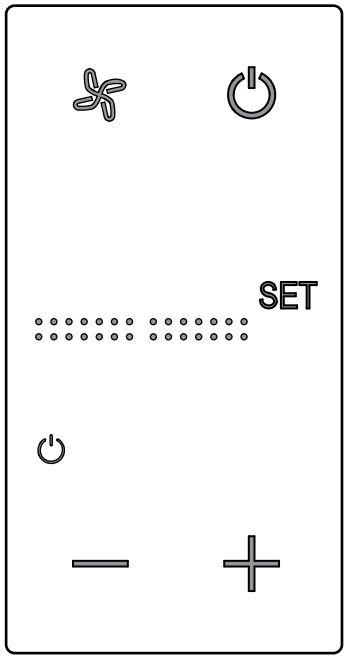
	Speed 1
	Speed 2
	Speed 3
AUTO	Automatic operation

Messages and errors

Messages

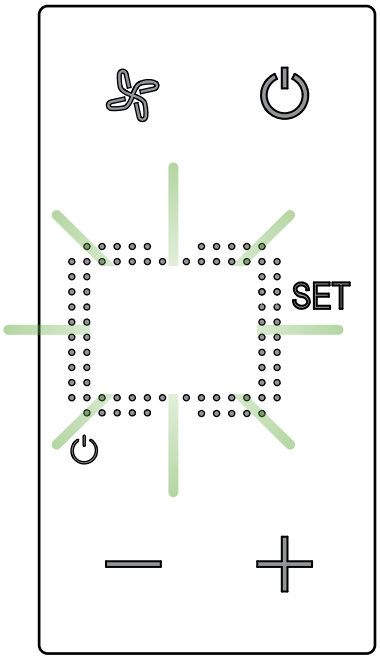
In some cases, the thermostat display will show some symbols to indicate that the current mode of operation is different from the standard mode.

"Thermostat OFF" indicator



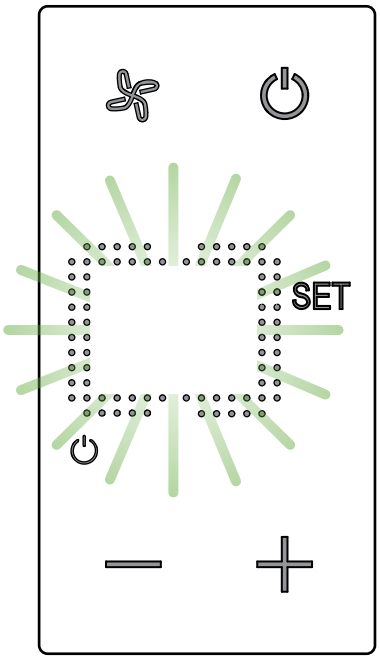
When the thermostat is OFF, this symbol appears. The OFF command can only be sent using the Hotelsupervision software, or the local window contact.
In this status, press i to set normal mode (temperature set based on the set point), or press — + to directly change (0.5°) the set point temperature.

"Thermostat configuration being completed" indicator



This symbol flashing slowly indicates that a configuration is being performed using MyHOME_Suite, MyHOME_Up or Hotelsupervision

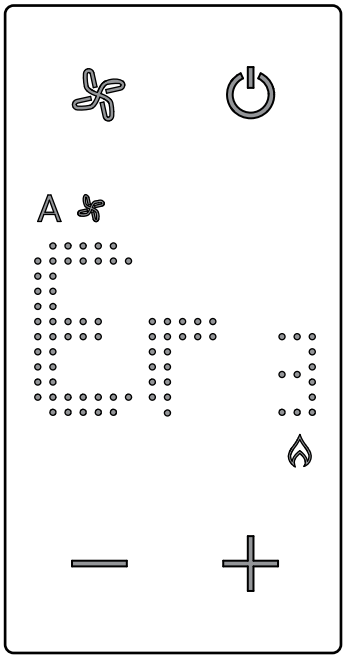
“Thermostat not configured” indicator



This symbol flashing quickly indicates that the thermostat has not yet been configured

Errors

If the display shows "Er" followed by a number, the thermostat is indicating the existence of a condition of error.
In this case refer to the installer manual or contact your trusted technician.
Below is an example of the error screen.



**Note: : if ER4 or a temperature significantly different from the one perceived are displayed, or after the first installation, wait at least 5 hours before checking the operation again.*
If the problem continues, contact your trusted technician.

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