



## INSTRUCTIONS FOR USE

# CH119NFC

## NFC WEEKLY PROGRAMMABLE THERMOSTAT



**FANTINI COSMI S.p.A.**

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Thank you for purchasing a **FANTINI COSMI S.p.A.** product.

Please read this instruction manual carefully and always keep it at hand should you need to consult it for any reason.

The documentation reflects the characteristics of the product. However, for regulatory or commercial developments, customers should verify the availability of updates relating to this documentation on the FANTINI COSMI S.p.A. website: [pdf.fantincosmi.it](http://pdf.fantincosmi.it)

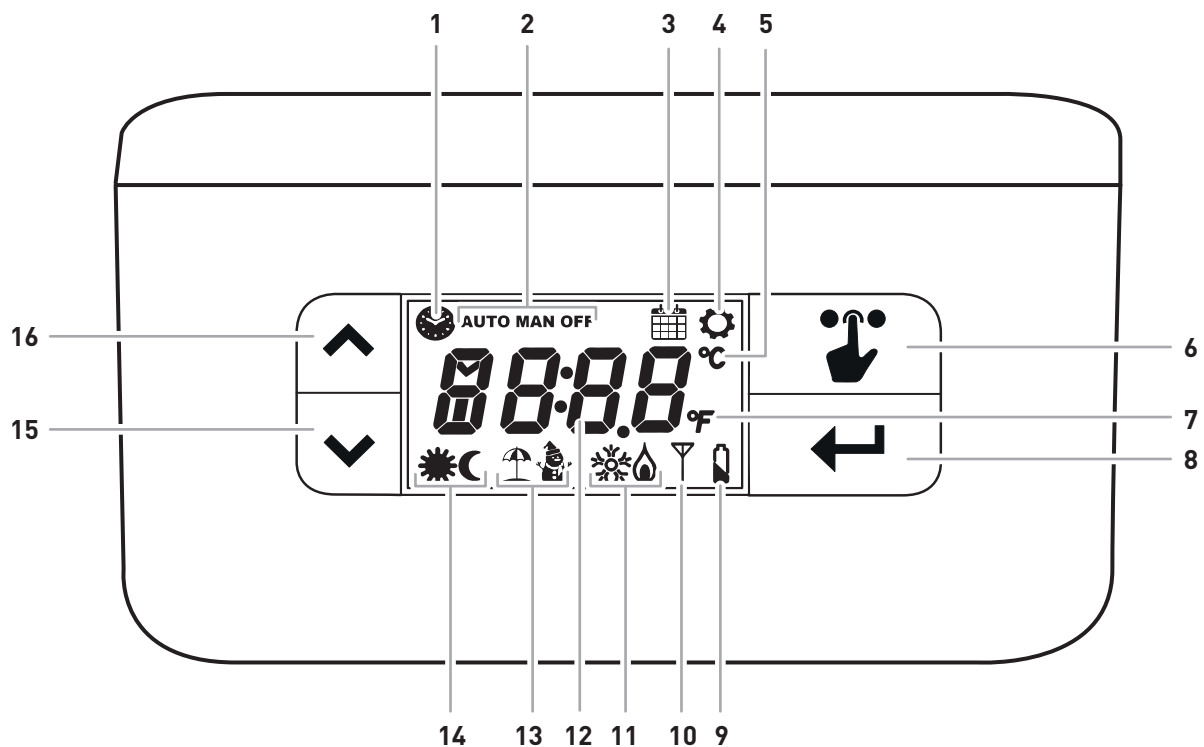
## OPERATION

The CH119NFC is a two-temperature + antifreeze temperature weekly programmable thermostat that allows you to adjust the room temperature in both heating and cooling.

## CONTENTS OF PACKAGE


- 1 programmable thermostat
- 2 6/32UNC American standard thread screws to secure onto 503 recessed box (approximately Ø 3.5mm)
- 1 quick guide

## DESCRIPTION OF DISPLAY KEYS



1	Date and time setting
2	Operating mode: AUTO - MAN - OFF
3	Hourly programming setting (profile)
4	Configurations
5	Room temperature Celsius
6	Menu selection key Press and hold: ESC (the already changed values are still assigned).
7	Room temperature Fahrenheit
8	On/ Off - Confirm
9	Flat battery
10	NFC phone connection
11	Activation status: air conditioning or heating
12	Temperature read
13	Activation status: Summer or Winter
14	Activation status: economy or comfort
15	DOWN arrow - Decreases
16	UP arrow - Increases

## TECHNICAL FEATURES

Battery power supply	2 AA 1.5V alkaline batteries
Battery life	>1 year
Temperature regulation scale	2 - 40 °C, increase 0.1°C
Measurement scale/room T display	- 50 to + 50 °C, resolution 0.1°C
Type of internal sensor	NTC
Relay output with potential-free changeover contacts	5(3)A 230 V~
Terminals	COM relay, NC relay, NO relay,
Type of action	1B (micro disconnection)
Conductor rated cross-section for flexible cables:	from 0.5 to 1mm <sup>2</sup>
Connection of cables to terminals	Type X
Minimum regulation differential	STD (from 0.1 to 0.4 K variable over time)
Reference thermal gradient	4 K/h
Maximum room temperature	45°C
Storage temperature	-10°C to +60°C
Rated pulse voltage	4000V
Software	class A
NFC	yes
Insulation class	Class II 
Protection rating	IP20
Degree of pollution	2
Number of operating cycles for manual actions	3000
Number of operating cycles for automatic actions	10000
Wall-mounting or on recessed box	
Dimensions	135 x 83 x 21 mm
Weight	0.100 kg
Compliant with	<ul style="list-style-type: none"> <li>■ EN 60730-1 and second parts</li> <li>■ Directive 2014/53/EU (RED)</li> <li>■ Directive 2014/30/EU (EMC)</li> <li>■ Directive 2014/35/EU (LVD)</li> </ul>
ErP classification according to Reg. EU 811/2013 - 813/2013	Class IV; 2%
Product not made in Italy	



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## 1 - INSTALLATION

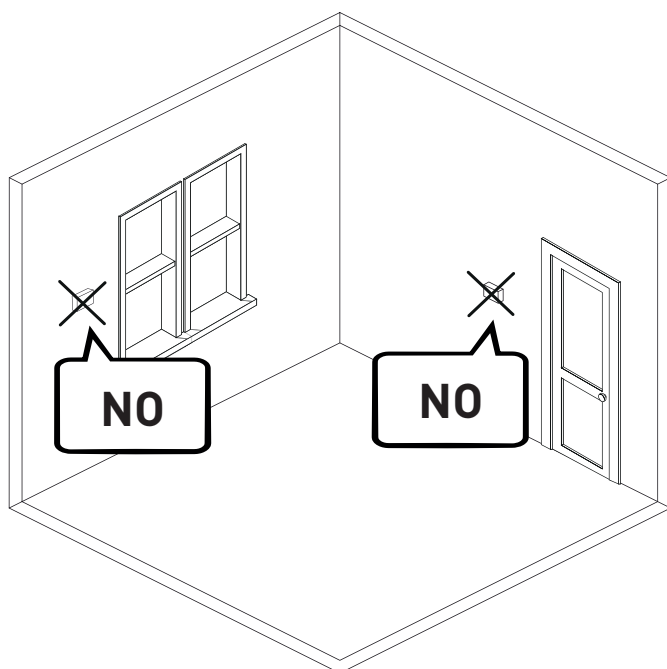
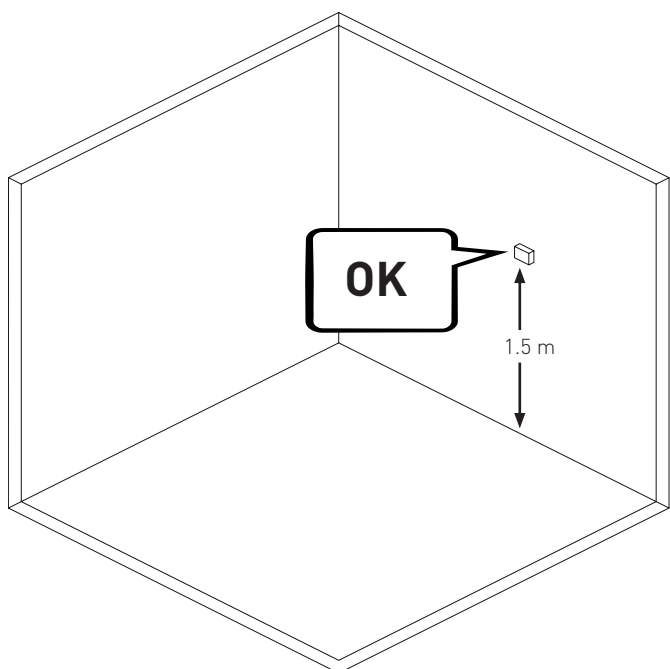
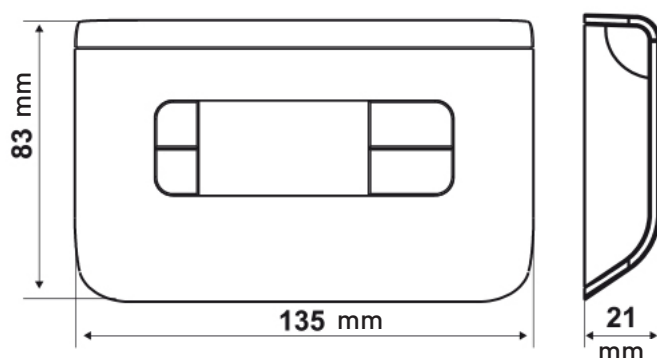
**ATTENTION!**

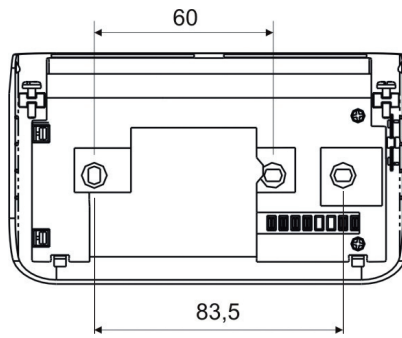
Installation must be carried out by qualified personnel in compliance with the requirements concerning the installation of electrical equipment.

**ATTENTION!**

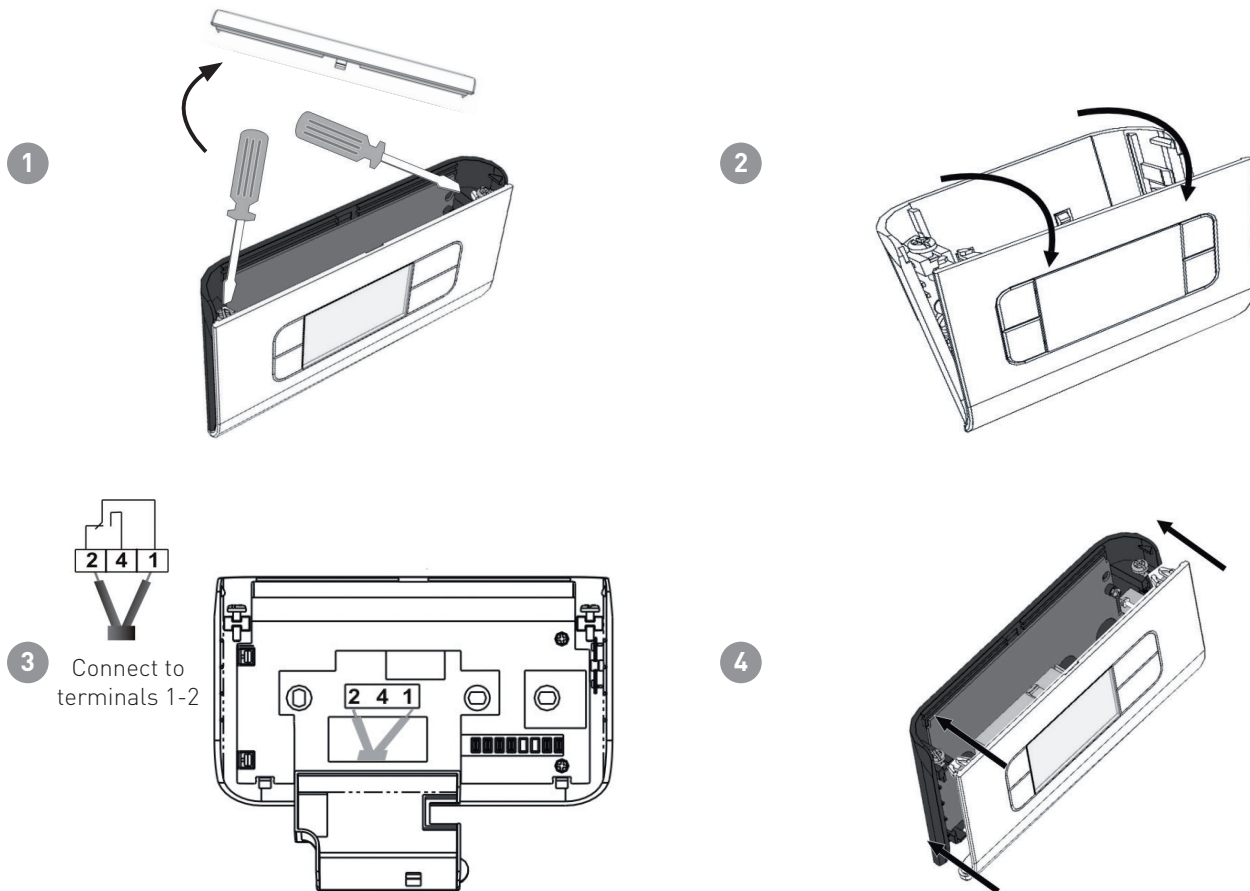
Installation operations must be performed with the system's power disconnected.

The CH119NFC programmable thermostat comes with a panel suitable for wall-mounting or on recessed boxes, with 3 modules or round. It must be installed at a height of about 1.5m from the floor, in a suitable position to detect the room temperature correctly.

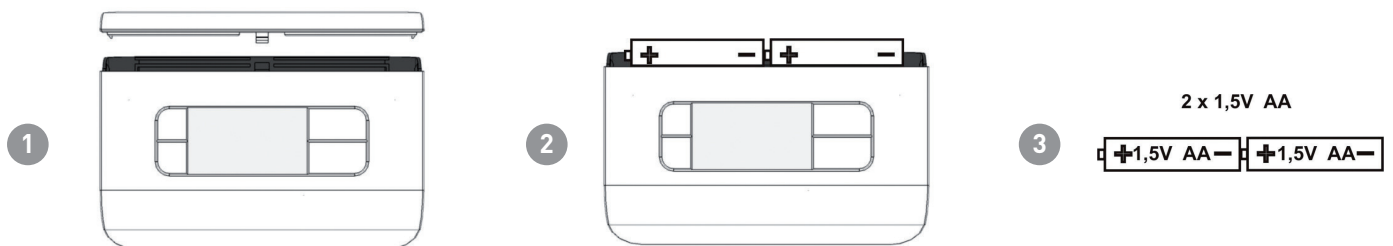




Undo the screw as shown in figure 1 and release the panel from the appliance.



### 1.1 - BATTERY REPLACEMENT



## 2 - ELECTRICAL CONNECTION

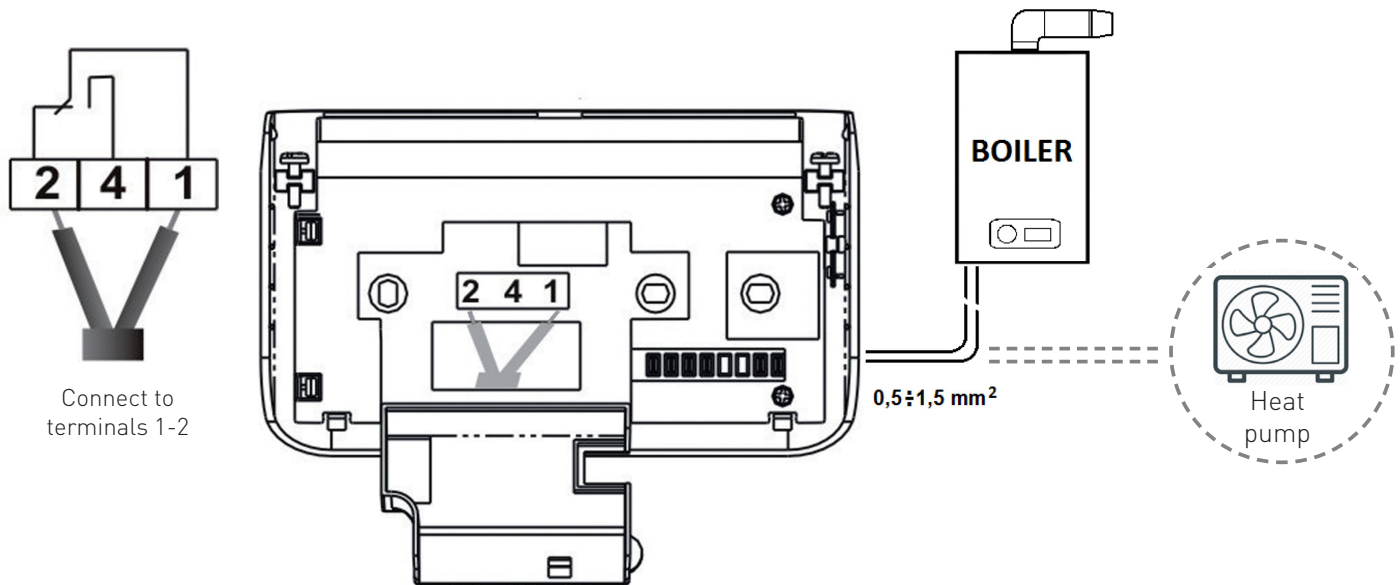
**ATTENTION!**

Electrical connections must be made by qualified personnel.

**ATTENTION!**

Electrical connection operations must be done with the system's power disconnected.

Electrical connections must be made by making reference to the following diagram.



During potential blackouts, the parameters will not be lost as the settings are stored in a non-volatile memory. Even when there are long power failures, the time/date remain stored thanks to an internal battery.

## 3 - PROGRAMMING GUIDE

The first time any key is pressed has no effect, but only activates the functions of the buttons.

After 30 seconds of no interaction, the display goes back to the main screen.

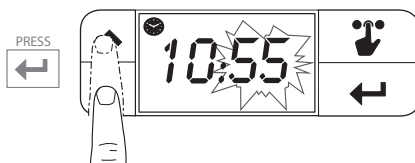
### 3.1 - DATE AND TIME SETTING



**Note:** the SELECTION key makes the icons at the top of the display flash cyclically every time it is pressed. The icon flashes for 3 seconds, after which, if nothing has been pressed, it goes back to the "initial" mode.



Use the SELECTION key to go to the CLOCK icon and press ENTER.

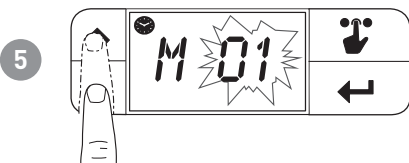


To edit the HOUR, use the  $\blacktriangledown/\blacktriangleup$  keys and press ENTER.

Repeat the same operations to edit the SECONDS.



Repeat the same operations to edit the YEAR.



Repeat the same operations to edit the MONTH.



Repeat the same operations to edit the DAY.

### 3.2 - HOURLY PROGRAMMING SETTING (PROFILE)

The profiles are set based on whether the WINTER or SUMMER mode is selected.



**Note:** the SELECTION key makes the icons at the top of the display flash cyclically every time it is pressed. The icon flashes for 3 seconds, after which, if nothing has been pressed, it goes back to the "initial" mode.

1 Press the SELECTION key 5 times, then press CONFIRM.

2 **Note:** use the  $\blacktriangledown/\blacktriangleup$  arrows to choose the desired comfort temperature. Press CONFIRM to switch to the economy temperature.

- = Comfort Temperature (tC)
  - = Economy Temperature (tE)
- In Winter <
- In Summer <

3 **Note:** by pressing the  $\blacktriangledown/\blacktriangleup$  arrows from the day display screen you can choose the day on which to make the settings directly. Press the CONFIRM key for 2 seconds to copy the programming of the previous day.

- d 01 = Monday
- d 02 = Tuesday
- d 03 = Wednesday
- d 04 = Thursday
- d 05 = Friday
- d 06 = Saturday
- d 07 = Sunday

4 **Note:** use the  $\blacktriangledown/\blacktriangleup$  arrows to change the time. Use the  $\blackleftarrow$  key to select tE or tC according to the chosen time. By scrolling through all 24 hours, the next day is displayed.

5 **Note:** press and hold for 2 seconds to go back to the main screen.

## 4 - OPERATION

The CH119NFC programmable thermostat is a device that controls cooling and heating systems.

### 4.1 - OPERATING PROGRAMS

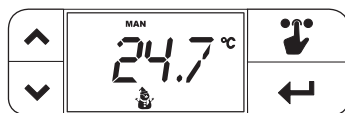
The CH119NFC programmable thermostat has different operating modes, called programs.



#### [ AUTO ]

- WEEKLY PROGRAM

The device manages the set Economy and Comfort temperatures depending on the hourly programs.



#### [ MAN ]

- MANUAL PROGRAM

The device adjusts the room temperature by using a set temperature specified each time, for an unlimited amount of time, until another program is selected.



#### [ OFF ]

- SYSTEM OFF or ANTIFREEZE PROGRAM

Press the OFF key to switch off the system. During WINTER mode, it maintains the antifreeze temperature.

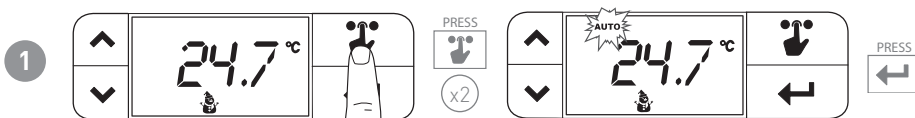
### 4.2 - SELECTING THE OPERATING PROGRAM

The programs are selected by cyclic sequence.



**Note:** the SELECTION key makes the icons at the top of the display flash cyclically every time it is pressed. The icon flashes for 3 seconds, after which, if nothing has been pressed, it goes back to the "initial" mode.

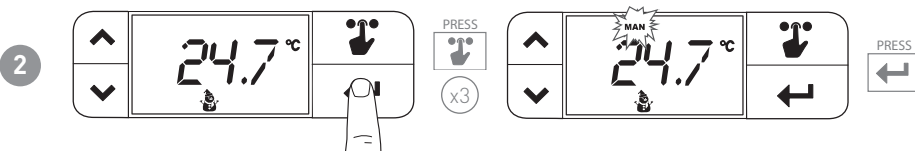
#### Program selection [AUTO]



Press the SELECTION key twice, then press CONFIRM.

**Note:** if the confirm button is not pressed, you go back to the "initial" mode.

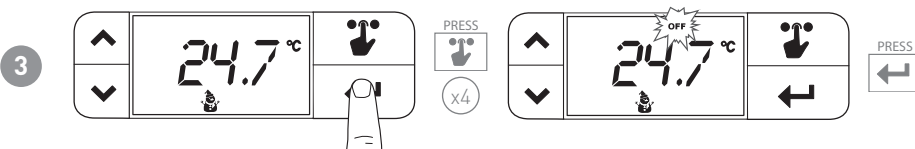
#### Program selection [MAN]



Press the SELECTION key 3 times, then press CONFIRM.

**Note:** if the confirm button is not pressed, you go back to the "initial" mode.

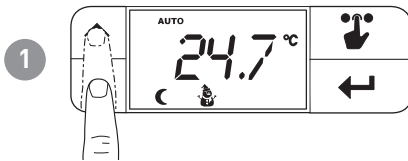
#### Program selection [OFF]




Press the SELECTION key 4 times, then press CONFIRM.

**Note:** if the confirm button is not pressed, you go back to the "initial" mode.

### 4.3 - SETTING THE "AUTO" PROGRAM tE/tC TEMPERATURE



Comfort Temperature (tC) = 

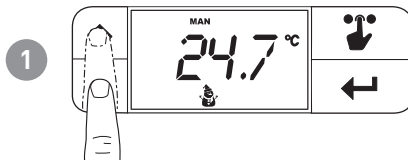
Economy Temperature (tE) = 

**Note:** use the arrows to change the temperature value tE or tC (depending on whether tE or tC is set). Pressing the key once does not change the value but displays the set point. In winter tE < tC; in summer tC < tE



**Note:** it is not necessary to press the confirm key. After 2 seconds the chosen value is set.

### 4.4 - SETTING THE "MAN" PROGRAM TEMPERATURE



**Note:** use the arrows to change the current manual temperature value. Pressing the key once does not change the value but displays the set point.



**Note:** it is not necessary to press the confirm key. After 2 seconds the chosen value is set.

### 4.5 - DISPLAYING THE TEMPERATURE WITH THE PROGRAM "OFF"



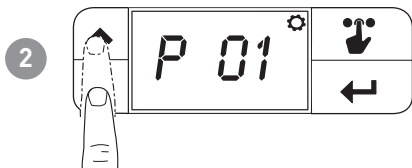
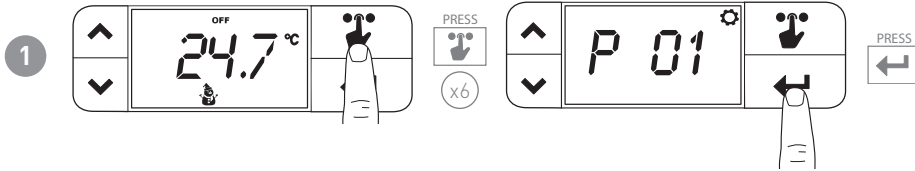
**Note:** the set tA is displayed. It is not possible to change the tA from this menu.



## 5 - CONFIGURATION MENU

From this menu, it is possible to change certain configuration parameters of CH119NFC.

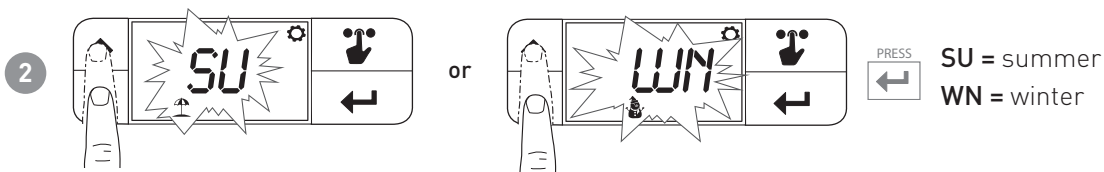
**Note:** the SELECTION key makes the icons at the top of the display flash cyclically every time it is pressed. The icon flashes for 3 seconds, after which, if nothing has been pressed, it goes back to the "initial" mode.



Use the **↕** arrow keys to select the parameter to edit.

- P 01 = summer/winter selection
- P 02 = °C/°F selection
- P 03 = daylight saving time/standard time selection
- P 04 = tA setting
- P 05 = screen lock with password setting
- P 06 = temperature offset setting
- P 07 = Max / Winter temperature limit setting
- P 08 = Min / Winter temperature limit setting
- P 09 = Max / Summer temperature limit setting
- P 10 = Min / Summer temperature limit setting
- P 11 = default parameters reset

### 5.1 - SUMMER/WINTER (default = Winter)



Select the season and press CONFIRM.

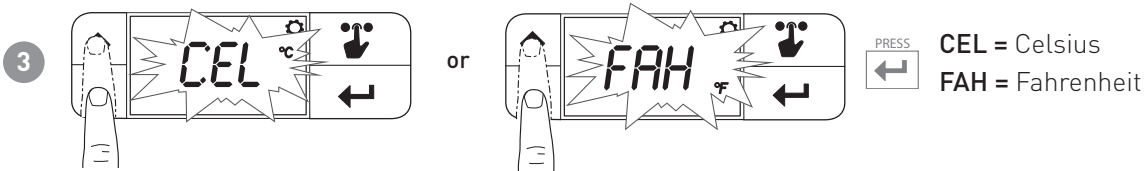
### 5.2 - CELSIUS / FAHRENHEIT (default = Celsius)

This allows you to choose the temperature display scale between Celsius and Fahrenheit degrees.



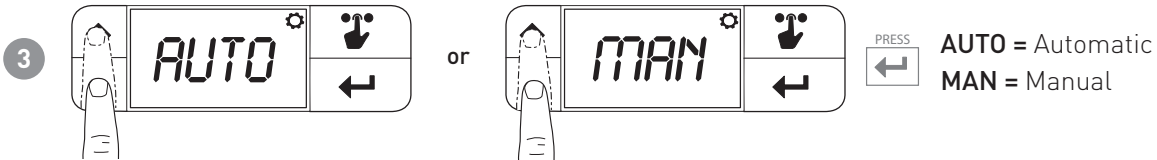
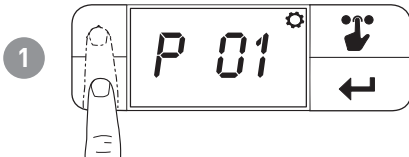
Use the **↕** arrow keys until reaching P02, then press CONFIRM.



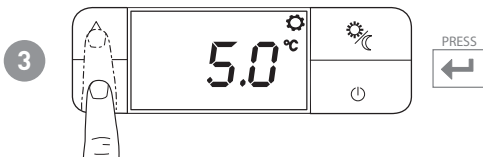
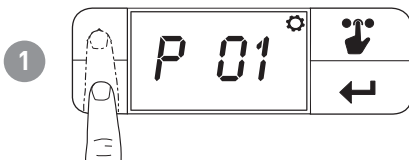


### 5.3 - DAYLIGHT SAVING / STANDARD TIME (default = Auto)

Automatically selects daylight saving time, applicable in Europe and some other countries. This set-up automatically updates the time when it changes (March and October).



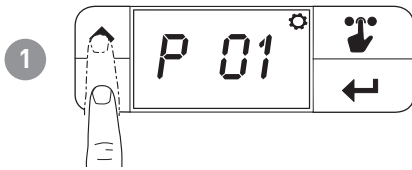
### 5.4 - ANTIFREEZE TEMPERATURE (default = 5.0°C)



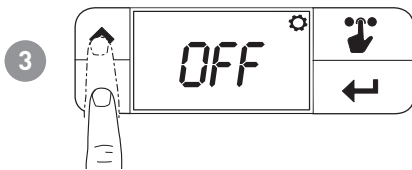
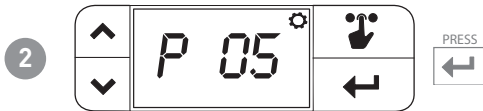
**Note:** the tA that can be set is between 2.0 and 7.0 °C or OFF = "----", and it can only be enabled in winter.

## 5.5 - SCREEN LOCK WITH PASSWORD (default = OFF)

It allows you to lock the CH119NFC keyboard with a 4-digit code. It only works once and then must be re-enabled.



Use the **↕** arrow keys until reaching P05, then press CONFIRM.



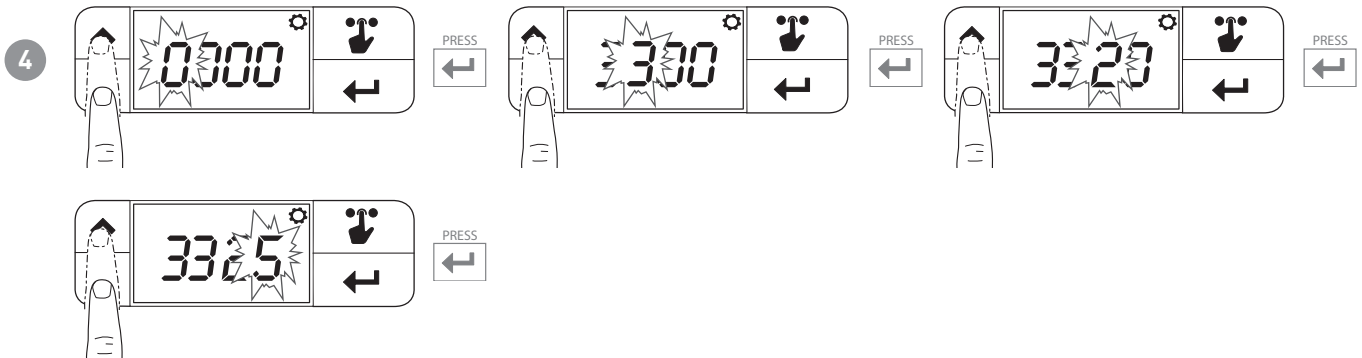
or



**ON** = Screen lock on  
**OFF** = No screen lock

**Note:** confirming ON allows you to set the password. Continue to follow this paragraph. Selecting OFF does not set the screen lock with password.

### Password Setting

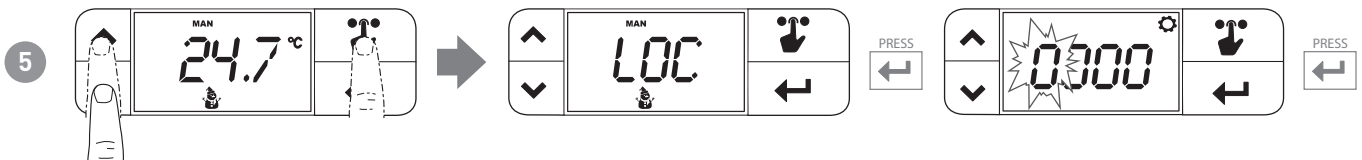


When the screen is locked, LOC will be displayed when pressing the **↕** or SELECTION keys.

### To unlock the screen

Press CONFIRM and repeat the operation from point 4.

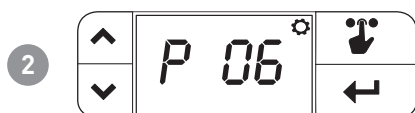
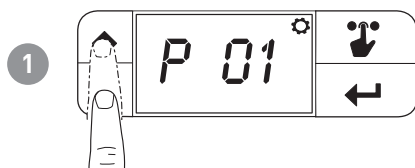
**Note:** a blackout does not reset the password.



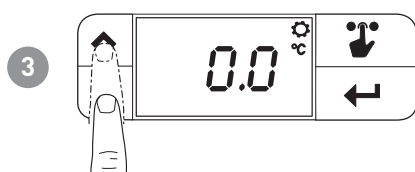
**Note:** enter the 4 digits of the password to unlock the device. In the event of an error, the message LOC appears again and the device remains locked.

## 5.6 - OFFSET TEMPERATURE (default = 0.0°C)

It allows you to edit the temperature measured from CH119NFC. Due to incorrect wall-mounting installation (behind walls, curtains or in crannies), the sensor might not indicate the correct temperature perceived by the device. This function corrects the temperature measured  $\pm 5.0$  °C.



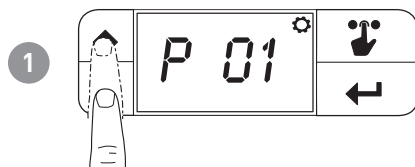
Use the  $\blacktriangledown/\blacktriangleup$  arrow keys until reaching P06, then press CONFIRM.



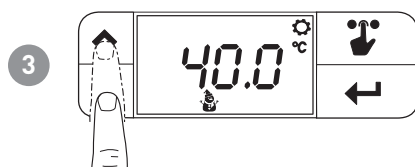
**Note:** offset value that can be set is between -5.0 and 5.0°C

## 5.7 - MAX WINTER TEMPERATURE LIMIT (default = 40°C)

It allows you to limit the maximum set point temperature that can be set in winter.



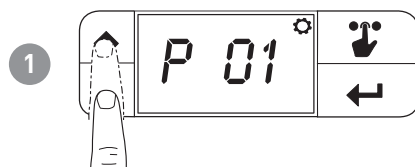
Use the  $\blacktriangledown/\blacktriangleup$  arrow keys until reaching P07, then press CONFIRM.



**Note:** default value 40.0°C, value that can be set is between 2.0 and 40.0°C

## 5.8 - MIN WINTER TEMPERATURE LIMIT (default = 2°C)

It allows you to limit the minimum set point temperature that can be set in winter.

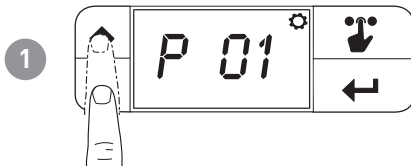




**Note:** default value 2.0°C, value that can be set is between 2.0°C and the value set in P7 minus 0.1°C (if you set P7 with a value of 25.0°C, the maximum value that can be set in P8 will be 24.9°C)

## 5.9 - MAX SUMMER TEMPERATURE LIMIT (default = 40°C)

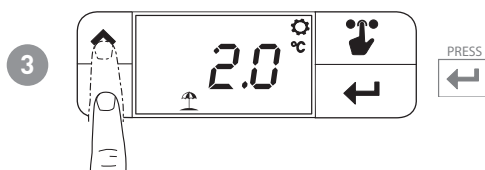
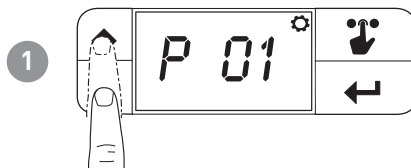
It allows you to limit the maximum set point temperature that can be set in summer.



**Note:** default value 40.0°C, value that can be set is between 2.0 and 40.0°C

## 5.10 - MIN SUMMER TEMPERATURE LIMIT (default = 2°C)

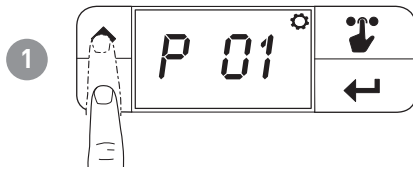
It allows you to limit the minimum set point temperature that can be set in summer.



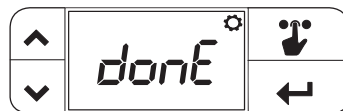
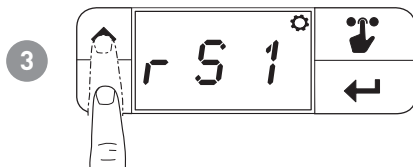
**Note:** default value 2.0°C, value that can be set is between 2.0°C and the value set in P9 minus 0.1°C (if you set P9 with a value of 20.0°C, the maximum value that can be set in P10 will be 19.9°C)

## 5.11 - RESETTING DEFAULT PARAMETERS (default = rS 0)

This allows you to reset all the parameters (except date and time) to the factory settings.



Use the   arrow keys until reaching P11, then press CONFIRM.



rS 0 = no RESET  
rS 1 = RESET

## 6 - PROGRAMMING VIA APP

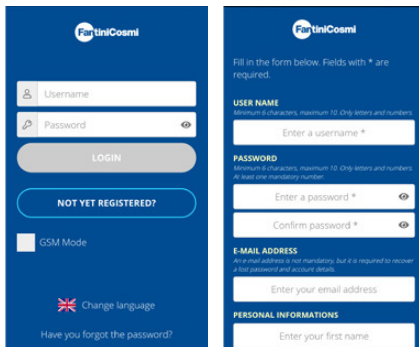
Download the **IntelliClima+** APP available free of charge on Google Play Store.

**Note:** you must have an Android smartphone with NFC technology.



### 6.1 - INSTALLATION PROCEDURE

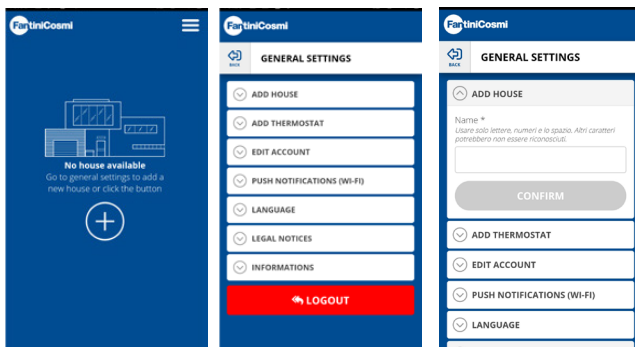
1



Install the APP and, when first activated, **create an account** by entering the user name and password (an active data connection is required for this operation).

**Note:** CH119NFC can also work without a WI-FI connection. In this case, tick GSM Mode.

2



Add a new house by pressing

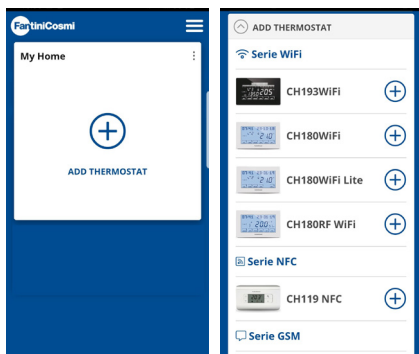


or

go to GENERAL SETTINGS and press ADD HOUSE.

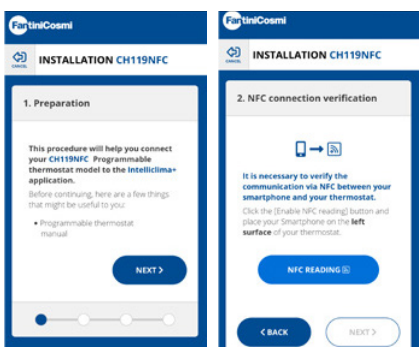
Enter the name of the HOUSE desired and press **CONFIRM**.

3



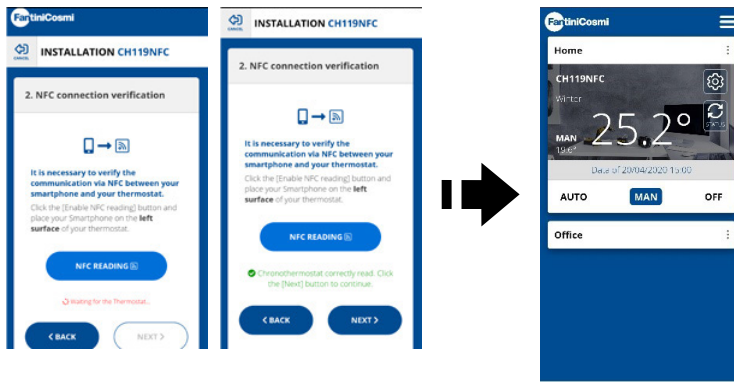
Add the programmable thermostat by pressing **+** and select CH119NFC.

4

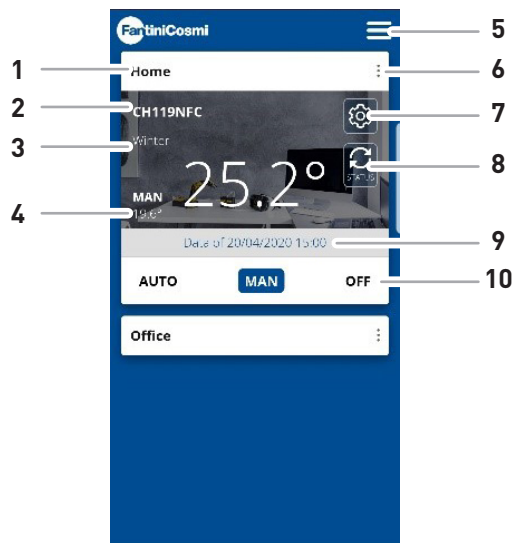


Follow the installation wizard.

5



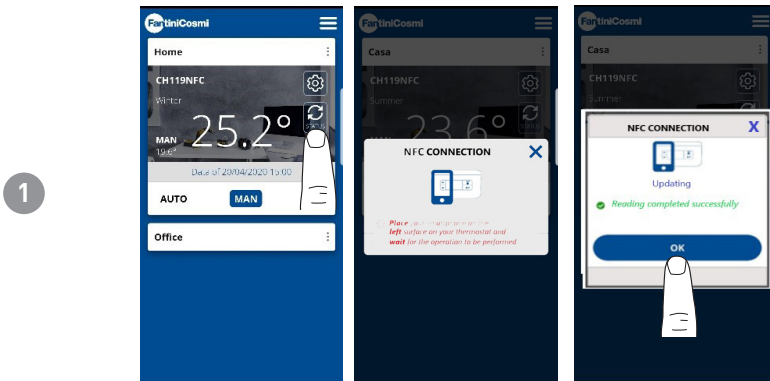
## 6.2 - PROGRAMMING CH119NFC



1	Home name
2	Room name
3	Season
4	Current set point
5	General APP settings
6	Home settings
7	General Thermostat settings
8	CH119NFC update status
9	Last CH119NFC update date
10	Operating mode

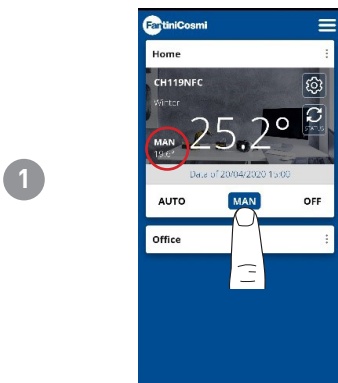


### 6.2.1 - INITIAL PHASE

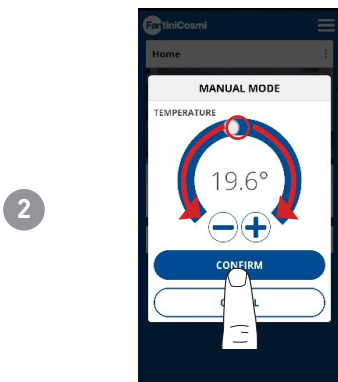


Update STATUS: sync the APP with CH119NFC.

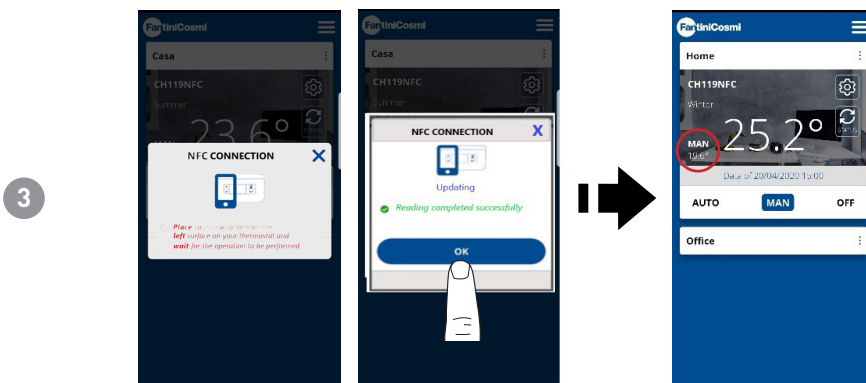
### 6.2.2 - MANUAL MODE



To edit the mode and/or set-point.

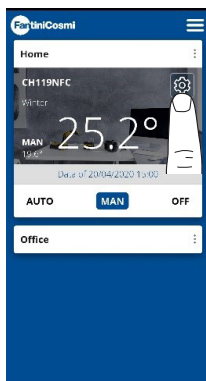


Use the Temperature cursor to increase or decrease the temperature.

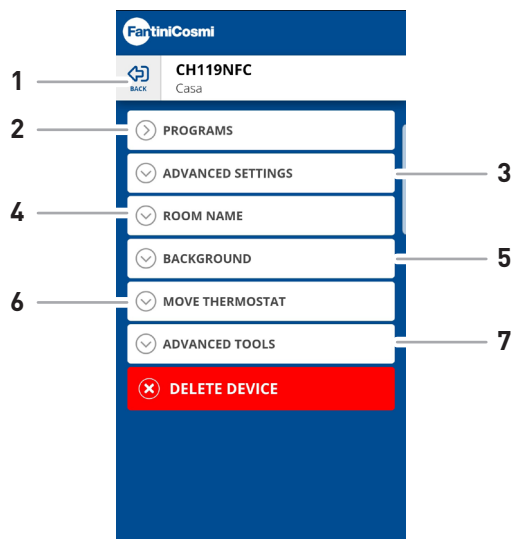


### 6.3 - GENERAL CH119NFC SETTINGS

1



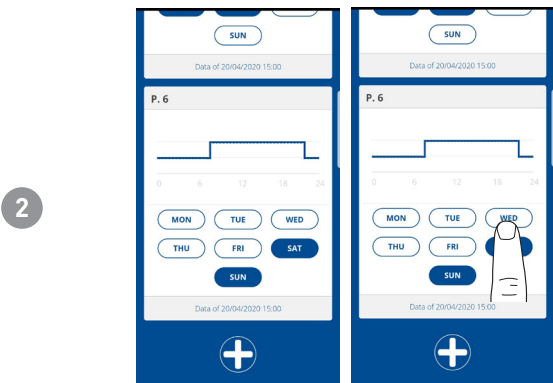
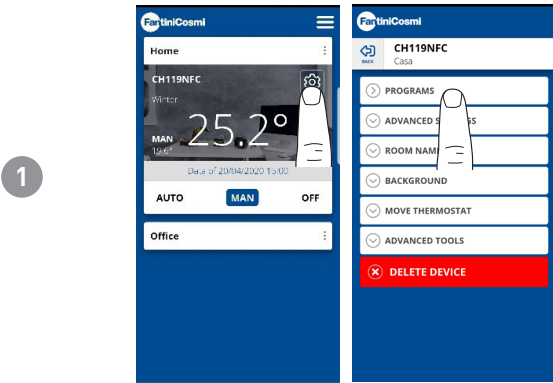
Press the icon indicated to access the list of general settings in order to manage CH119NFC.



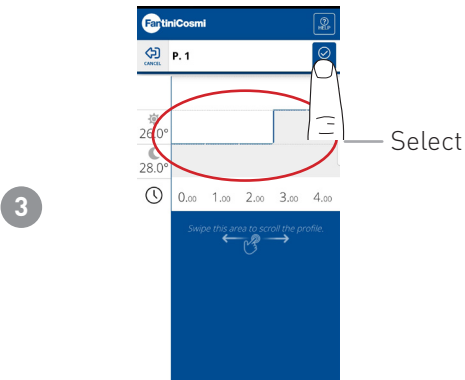
1	Go back to HOME
2	For AUTO mode
3	Various advanced settings
4	Edit ROOM name
5	Edit ROOM background
6	Move to another HOME
7	Thermostat data display

### 6.3.1 - EDIT PROGRAMS TO AUTO

Change of the weekly programs for AUTO mode (related to the season selected).

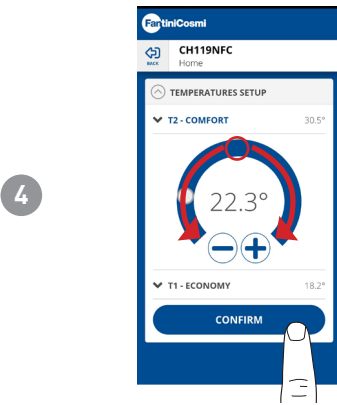
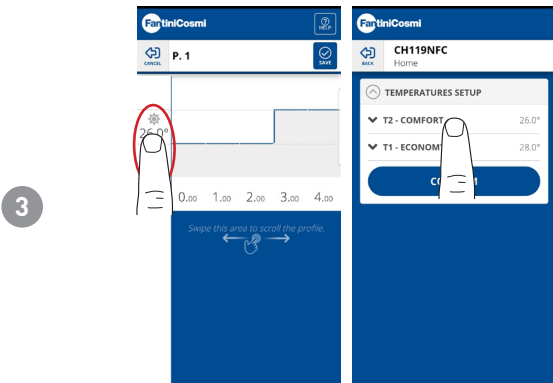
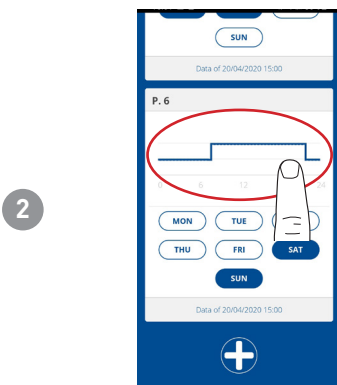
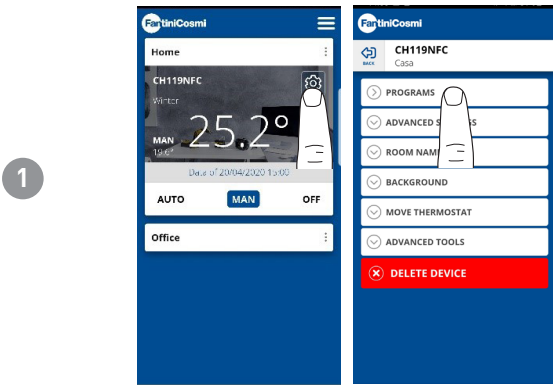


Selection of the weekdays associated with the profile.



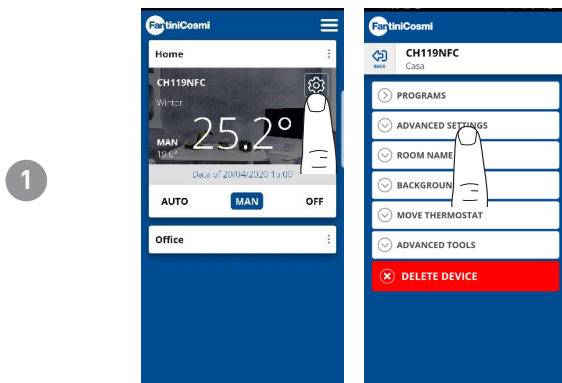
### 6.3.2 - EDIT AUTO TEMPERATURES

Edit the **Sun** and **Moon** temperatures for AUTO mode (related to the season selected).

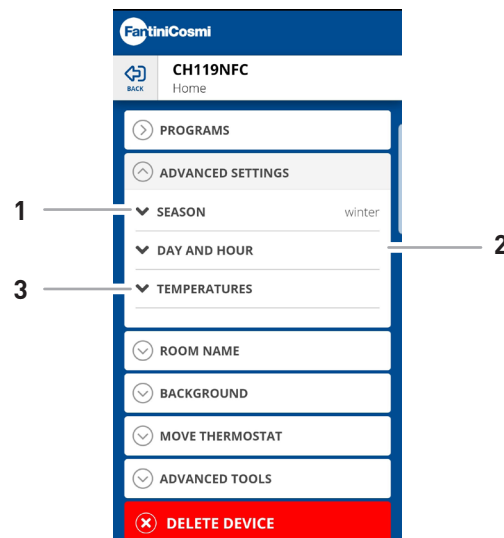


Use the Temperature cursor to increase or decrease the temperature.

## 6.3.3 - ADVANCED SETTINGS



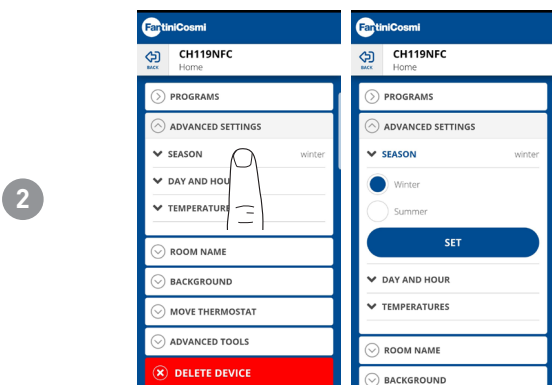
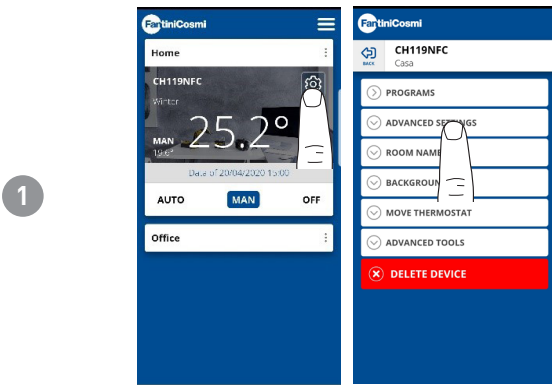
Press the icon indicated to access the list of advanced settings in order to manage CH119NFC.



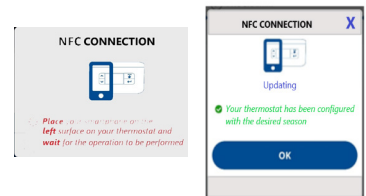
- |   |                                 |
|---|---------------------------------|
| 1 | Edit season                     |
| 2 | Edit CH119NFC date and time     |
| 3 | Edit various temperature limits |

### 6.3.3.1 - ADVANCED SETTINGS: SEASON

Edit the programmable thermostat operating Season (Summer/Winter).

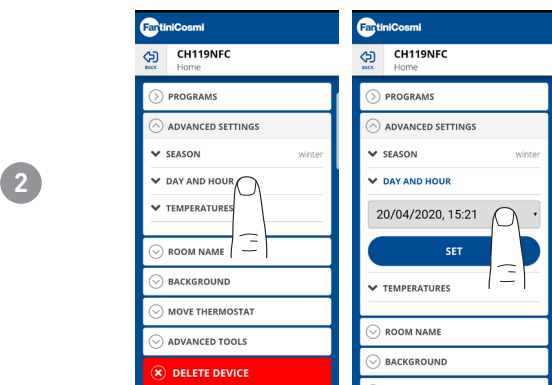
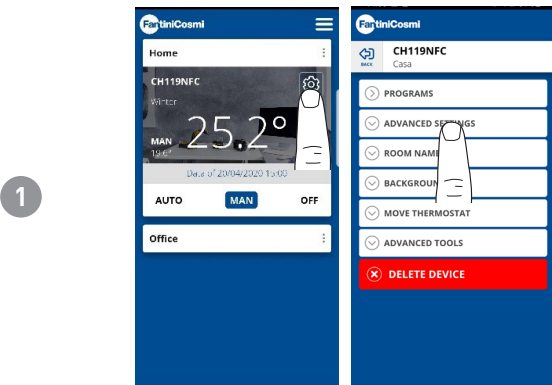


After editing the season, press **SET** and follow the instructions on the APP for the NFC connection.

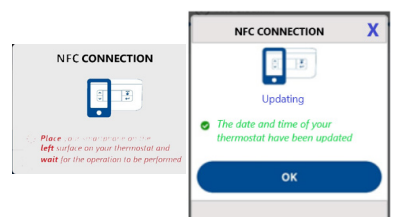


### 6.3.3.2 - ADVANCED SETTINGS: DAY AND HOUR

Edit the day and hour on the programmable thermostat.

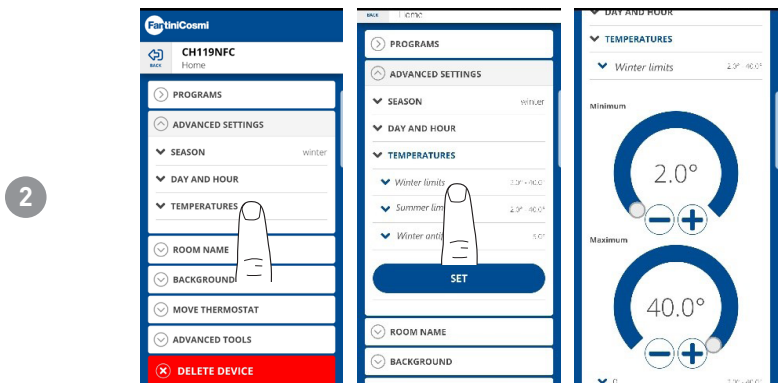
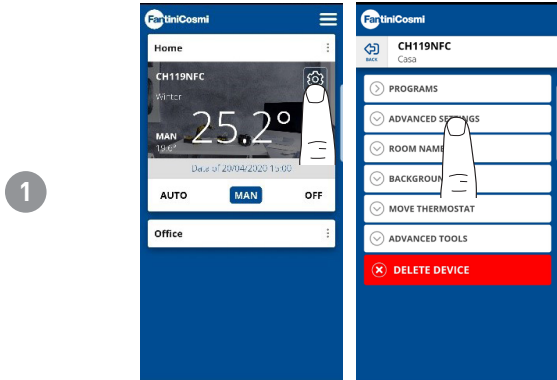


After setting the correct day and hour, press **SET** and follow the instructions on the APP for the NFC connection.

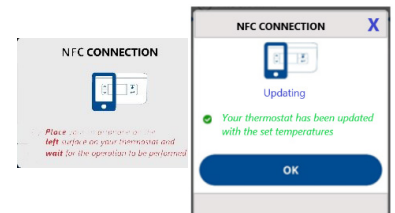


### 6.3.3.3 - ADVANCED SETTINGS: TEMPERATURES

Edit the max and min set-point limits that can be set for Winter, Summer and Antifreeze.

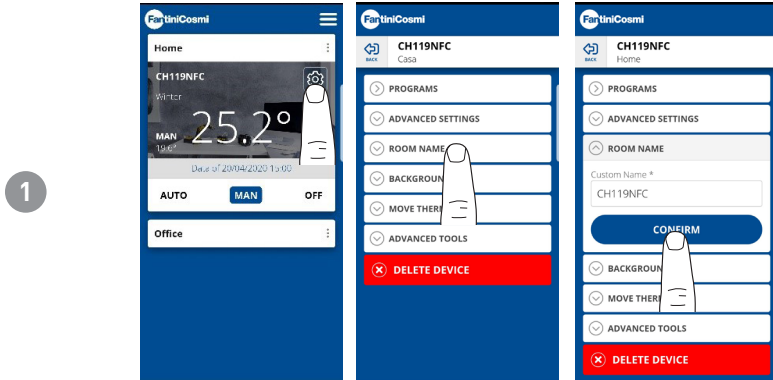


After editing the temperatures, press **SET** and follow the instructions on the APP for the NFC connection.



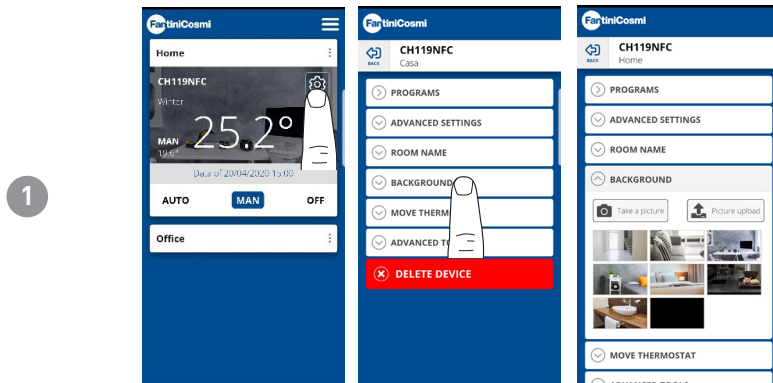
### 6.3.4 - ROOM NAME

Edit the room name where the programmable thermostat is installed.



### 6.3.5 - BACKGROUND

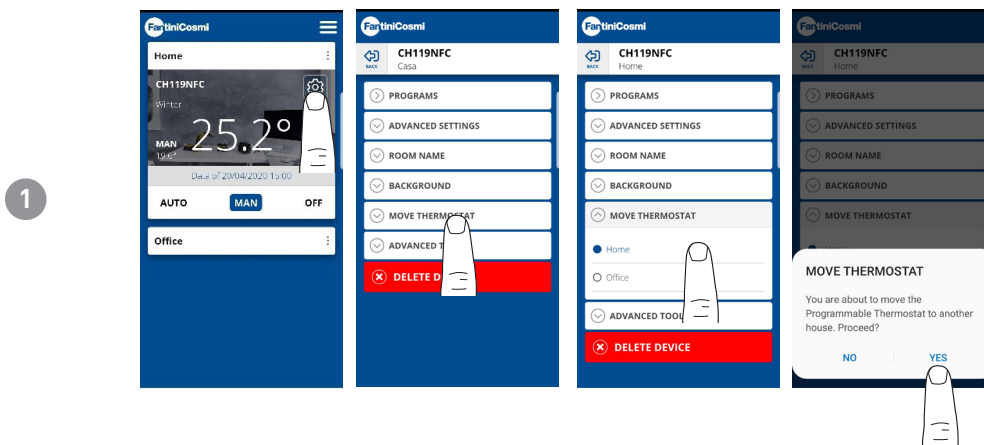
Edit the room background where the programmable thermostat is installed.



**Note:** it is possible to use default photos, or photos from your album, or take photos and add them as the background.

### 6.3.6 - MOVE THE PROGRAMMABLE THERMOSTAT

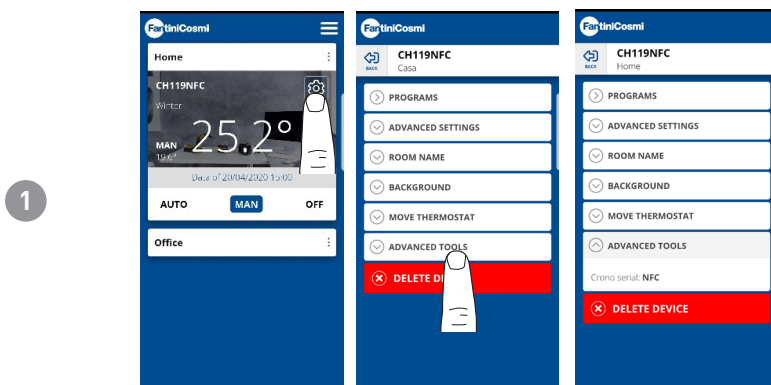
It is possible to move the programmable thermostat from one home to another.





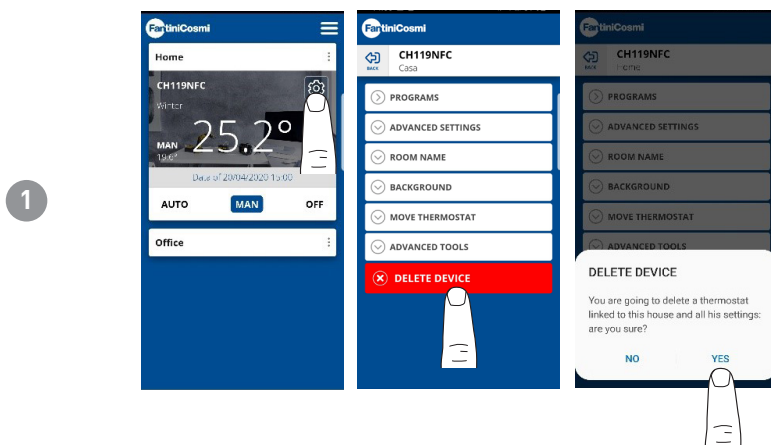
## 6.3.7 - THERMOSTAT CONTROL

General information regarding the programmable thermostat.



## 6.3.8 - DELETE THE PROGRAMMABLE THERMOSTAT

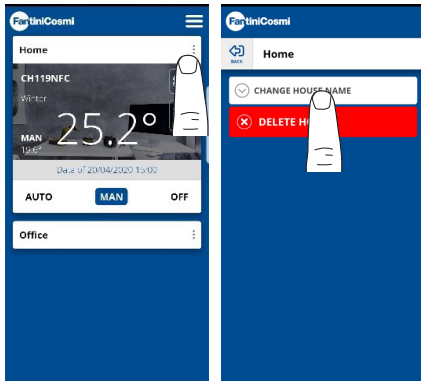
It allows you to delete the programmable thermostat from the home it is associated with.



**Note:** this operation cannot be reset with a «CLICK»! You must install the programmable thermostat once again by following all the steps.

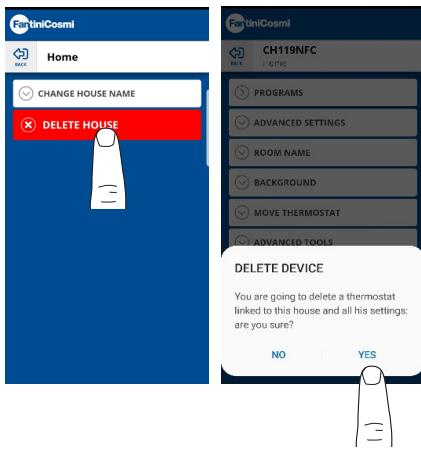
## 6.4 - HOME SETTINGS

1



It allows you to **edit the home name** selected.

2



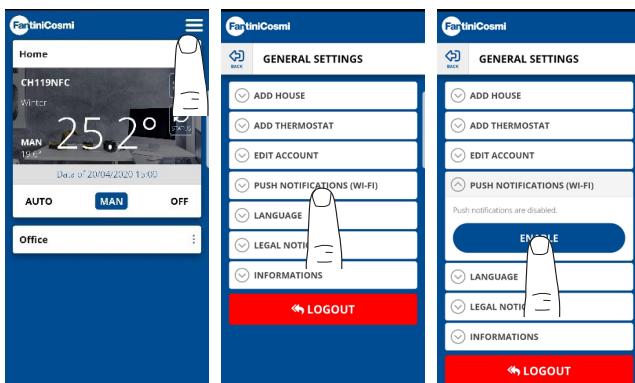
It allows you to **delete the home name** selected.

## 6.5 - APP SETTINGS: PUSH NOTIFICATIONS

PUSH notifications are alerts that are received on your smartphone if there are various operation faults regarding the **Intelliclima+** system by **FANTINI COSMI S.p.A.**

**Note:** they only work on WI-FI devices and if the data service is enabled on your smartphone. Therefore, even if the function is enabled, **no fault PUSH notifications are sent regarding CH119NFC.**

1



## 7 - DISPOSAL



The symbol of the crossed-out wheeled bin indicates that the products must be collected and disposed of separately from household waste. The batteries and integrated accumulators may be disposed of together with the product. They will be separated at the recycling facilities. A black bar indicates that the product was placed on the market after 13 August 2005. Participating in the separate collection of products and batteries contributes to the correct disposal of these materials and therefore avoids possible negative consequences for the environment and human health. For more detailed information on the collection and recycling programmes available in your country, contact the local authorities or the sales point where you purchased the product.

## 8 - GENERAL WARRANTY CONDITIONS

The conventional warranty lasts 24 months, starting from the date the equipment is installed. The warranty covers all parts of the equipment, with the exception of those subjected to normal wear.

EAC CE

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