

Wireless digital programmable room thermostat

Installation and operational manual

EN Installation and Operation Manual



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General information

Safety warnings and operating instructions

- This product should be installed preferably by a qualified professional. Subject to observation of the above terms, the manufacturer shall assume the liability for the equipment as provided by legal stipulations.
- All instructions in this Installation & Operation manual should be observed when working with the thermostat. Failures due to improper installation, improper use or poor maintenance are voiding manufacturer liability.



- Any attempt to repair voids the responsibility and the obligation to guarantee and replacement from the manufacturer.
- Do not cover the thermostat for accurate measurement of ambient temperature. Therefore the sensor must never be hidden behind thick curtains, furniture, etc... Alternatively, a remote sensor should be used.
- Batteries may explode or leak, and cause burn injury, if recharger, disposed of fire, mixed with a different battery type, inserted backwards or disassembled. Replace all used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not remove the battery label. Keep batteries away from children. If swallowed, consult a physician at once.

- 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info
- 2006/66/EC (battery directive): This products contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info



Application

- The thermostat have been designed for use in residential rooms, office spaces and industrial facilities. Verify that the installation complies with existing regulations before operation to ensure proper use of the installation.

Symbols using on this manual:

	Press key (on rotary button)		Home key
	Minus rotation button		Menu key
	Plus rotation button		



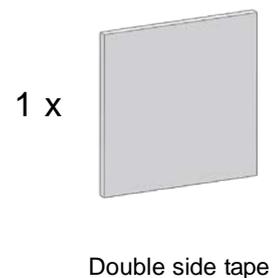
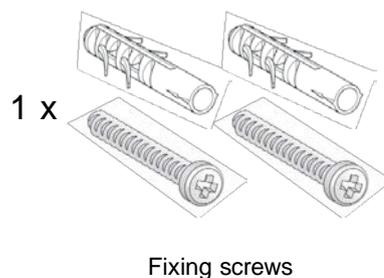
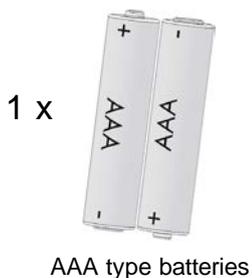
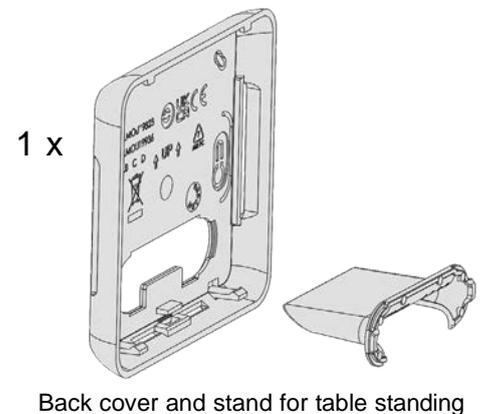
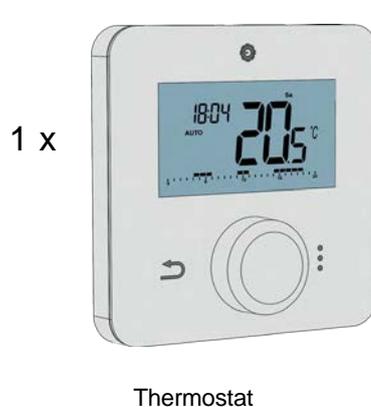
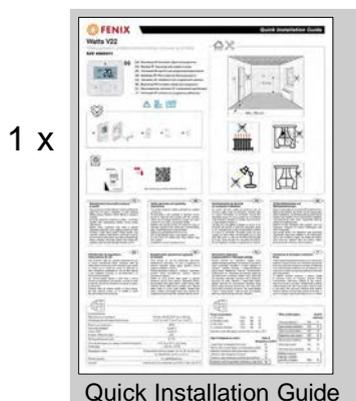
1. Presentation

- Connected programmable thermostat compatible with a Central Unit system
- Smartphone App control capability when associated to Central Unit.
- 2 sensitive touch buttons + 1 rotary push-button
- Wireless bidirectional communication 868,3 MHz
- Different temperature program' settings
- Open window detection
- Anti freeze function
- PIN code for public area
- EEPROM non volatile memory
- Wall or desk mounting with a stand (included)
- 2 parameter menus: User and Installer

In option

External sensor with several possibilities of regulation (floor, remote, combined...).

2. Box contents



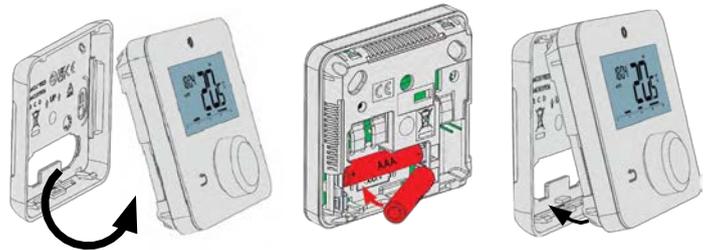
3. First Installation

See Quick Installation Guide for installation.

3.1 Batteries installation

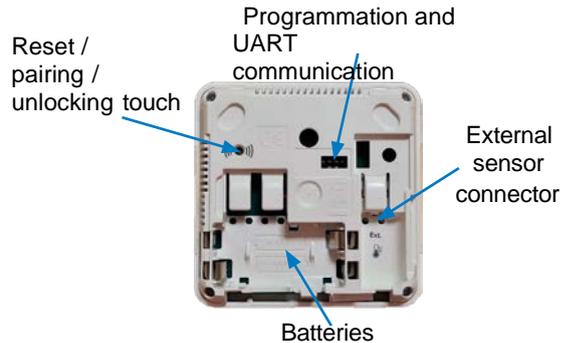
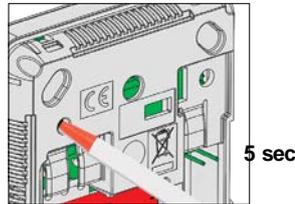
- Open the cover and insert the 2 AAA supplied batteries.
- Close the cover.

CAUTION: risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.

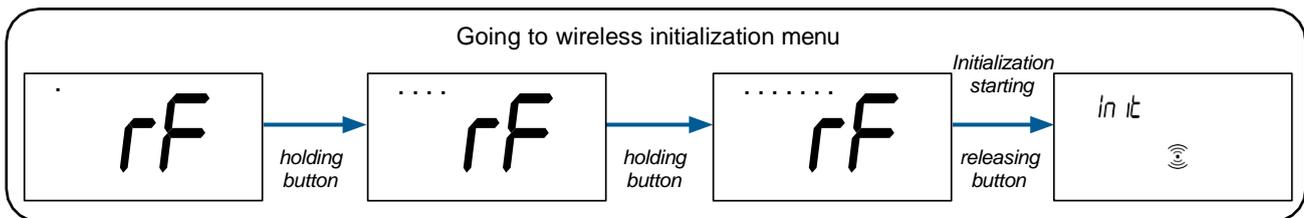


3.2 Radio pairing

RF wireless communication initialization:
 You must put your receiver or central unit in radio pairing mode (refer to the device leaflet).
 On the back, push 5 sec the button for direct access to initialization menu.



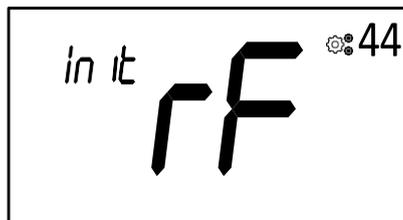
Following screens are displaying:



Other method from parameter menu:

To enter in RF communication initialization mode, user or professional has to:

- ⊙ Enter in “parameter menu” and select parameter rF (see paragraphs “Selection of configuration menu” and “Professional parameter selection menu”);



- ⊙ Press home key . Following screen is displaying:



When thermostat is in radio pairing step, it sends bidirectional pairing frames without discontinuity. During pairing step, there are two cases:

- ⊙ Pairing with receiver: once paired, thermostat automatically exit from initialization phase.
- ⊙ Pairing not finished or not realized (or keyboard inactivity): digital thermostat remains 10 seconds in pairing then automatically stops.

To reset all wireless parameter (receiver's ID and type), the only method is to clear remote memory. Resetting the remote is done in “User parameter description” with the parameter EEP (see paragraph “User parameter description”).

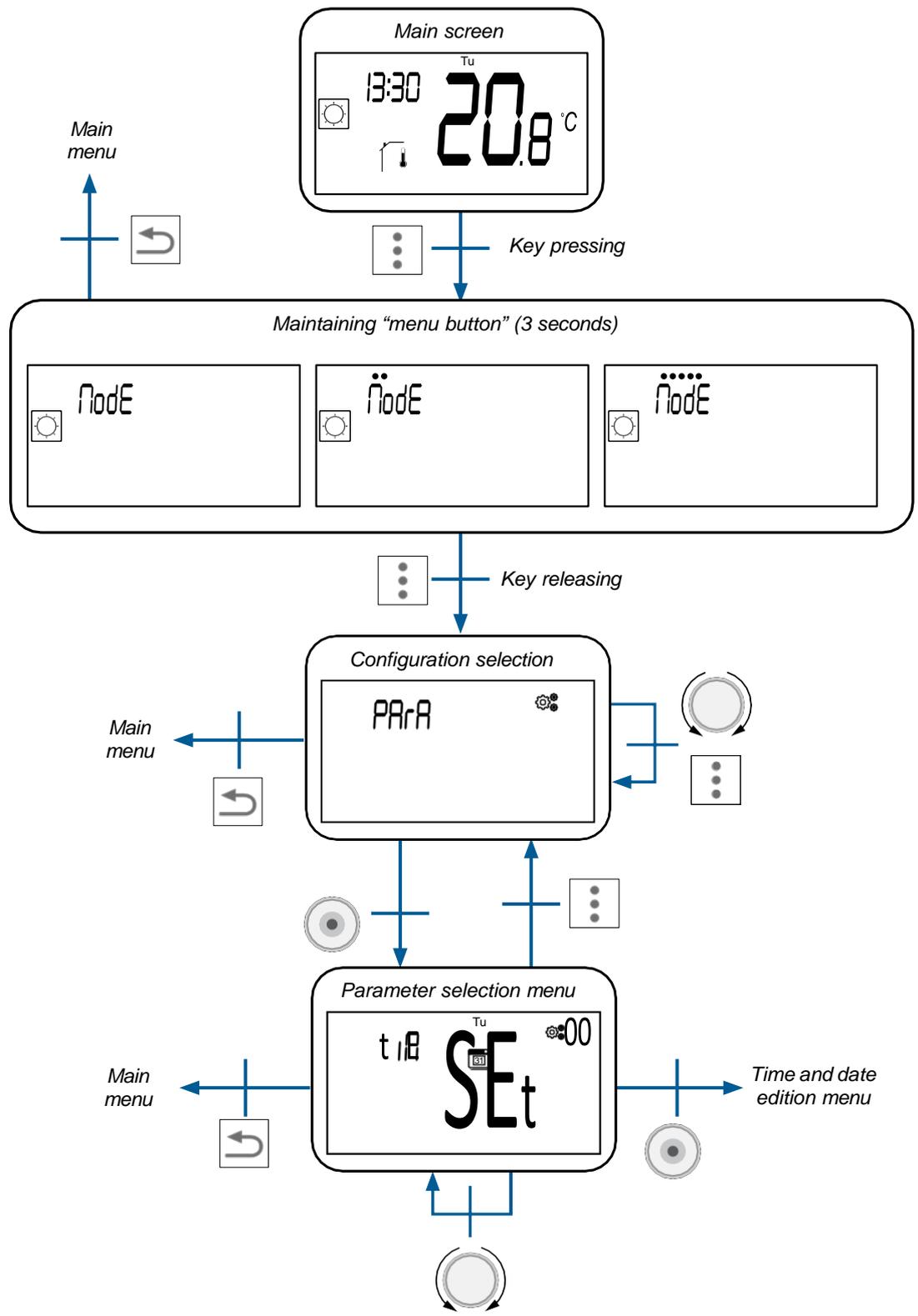
IMPORTANT NOTES:

- When radio pairing is done, almost all parameters are reset to their factory value with respect of receiver type;
- If any pairing wasn't realized, remote doesn't transmit any RF frame;
- Installer can observe signal power with professional parameter menu (see paragraph “Professional parameter description”).

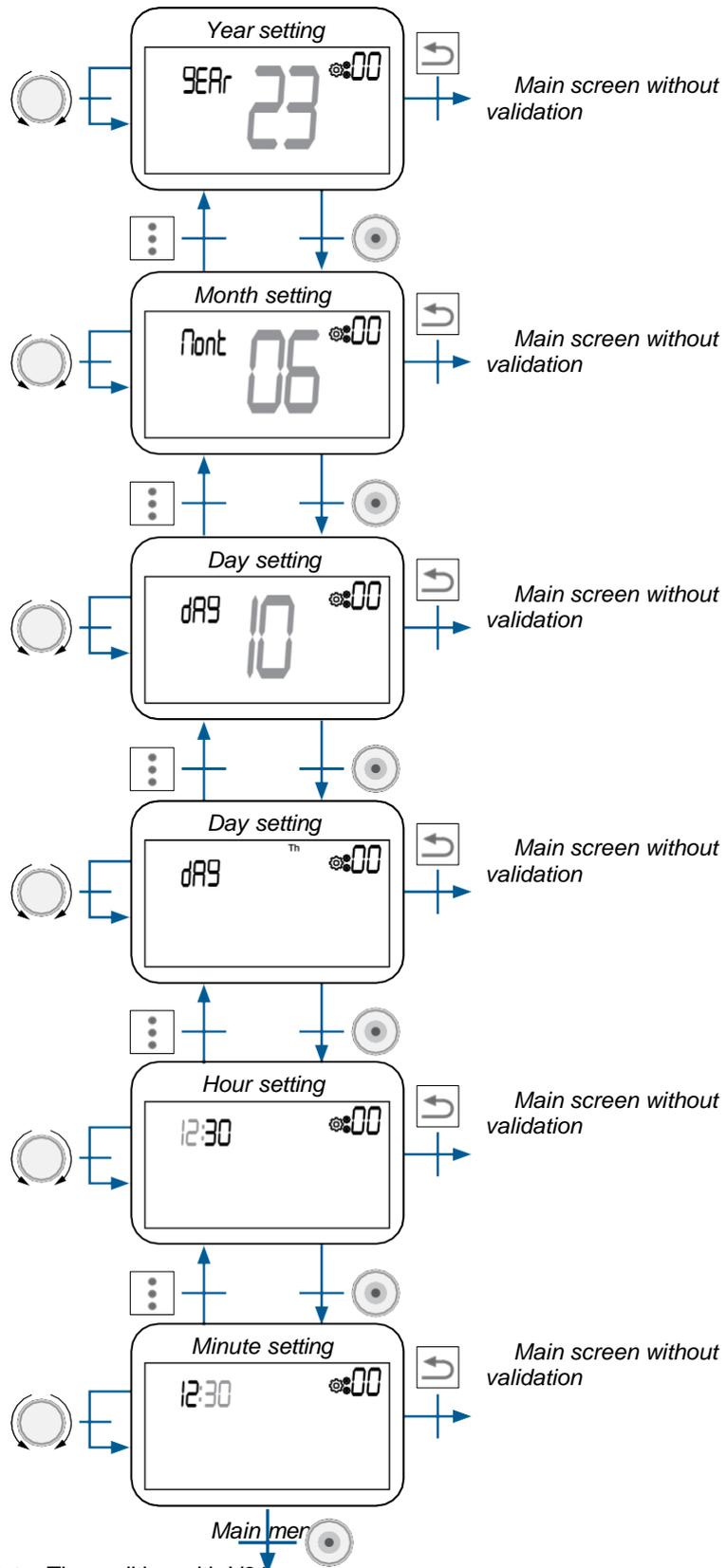
3.3 Time and date edition menu

a. How to access to time and date edition menu

- There are two possibilities to access the menu:
- directly when the product is first lit.
 - via the user settings menu as presented below:



b. Description of time and date edition menu



Note: Time edition with V24
 When the system includes a V24 type product, the time is automatically synchronized between the two products.

4. Product description

4.1 Keyboard on front face: 2 keys and one rotator button

The keyboard is composed by 3 buttons (one rotator button and 2 capacitive touches) as shown in the figure below:



Rotary/push button description:

-  product wake-up / minus rotation or down/left navigation
-  product wake-up / validation of parameter setting / displaying measured temperature or temperature set point / saving of auto derogation setpoint
-  product wake-up / plus rotation or up / right button for menu navigation

Description of 2 capacitive keys:

-  home key to return to main screen
-  menu key to access mode selection menu or to parameter menu or to edit time menu

IMPORTANT NOTES:

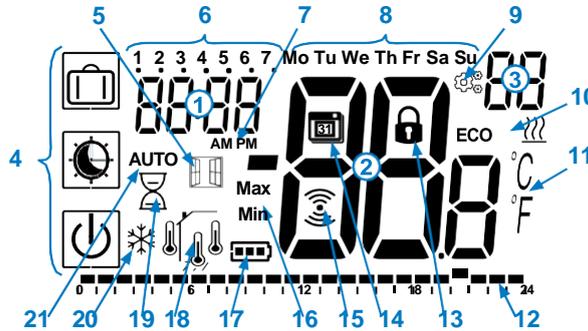
- ⊙ When the backlight is switched off for several seconds, pressing a key allows transmitting an RF communication frame (see chapter "Wireless communication functioning"). This communication allows the thermostat to be updated according to the changes made on the central unit.
- ⊙ When thermostat is in standby mode, pressing or turning rotator button ;
- ⊙ Reset key on back face.

By holding this key, user can access to specific functions:

- ⊙ Unlocking the device;
- ⊙ Pairing the device;
- ⊙ Reset user parameters with factory values.

Paragraph "Reset" describes this functionality with more information.

4.2 LCD logo description



1. Clock / remaining time for boost mode

2. Measured temperature/ temperature set point

3. Parameter menu number

4. Icon showing current operating mode of thermostat with left to right:
 Off mode , Frost protection mode ,
 Reduced mode , Comfort mode ,
 Auto mode , Holiday mode .

5. Open window function

6. **1 2 . 4 5 . 7** Day number
3 6 number

7. AM PM Time format

8. Mo Tu We Th Fr Sa Su Day name in English

9. Parameter menu

10. **ECO** : heating is running
ECO system is in "Eco/Reduced mode"

11. **CF** : Temperature units: **C** : Celcius
F : Fahrenheit

12. Bar graph

13. Locked keyboard

14. Edit date

15. RF communication

16. **Max**
Min Max/min setpoint

17. Battery level

18. Type of measured data & sensor used for system regulation:

- Internal temperature sensor

- Ambient temperature sensor

- Floor temperature sensor

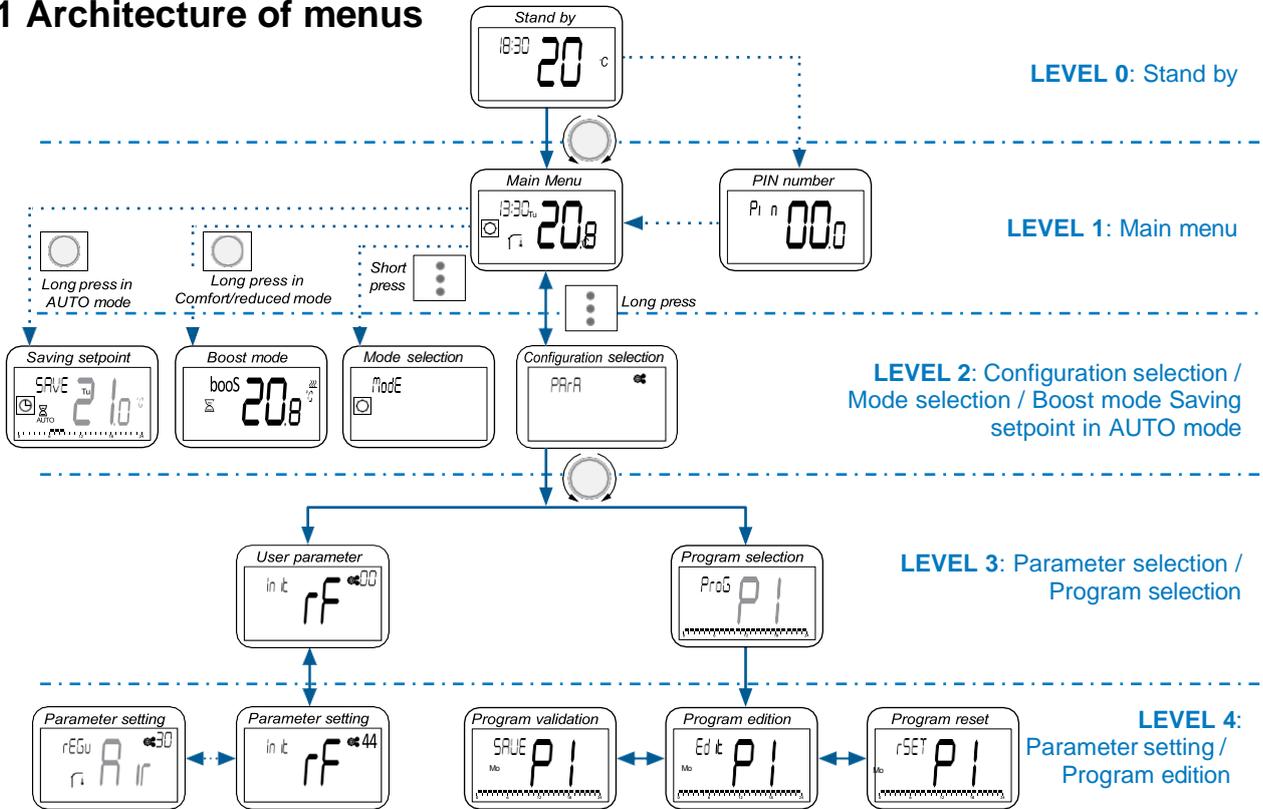
19. Derogation or boost activation/running

20. With stop logo , it means antifreeze mode
 21. **AUTO** Auto mode is activated.

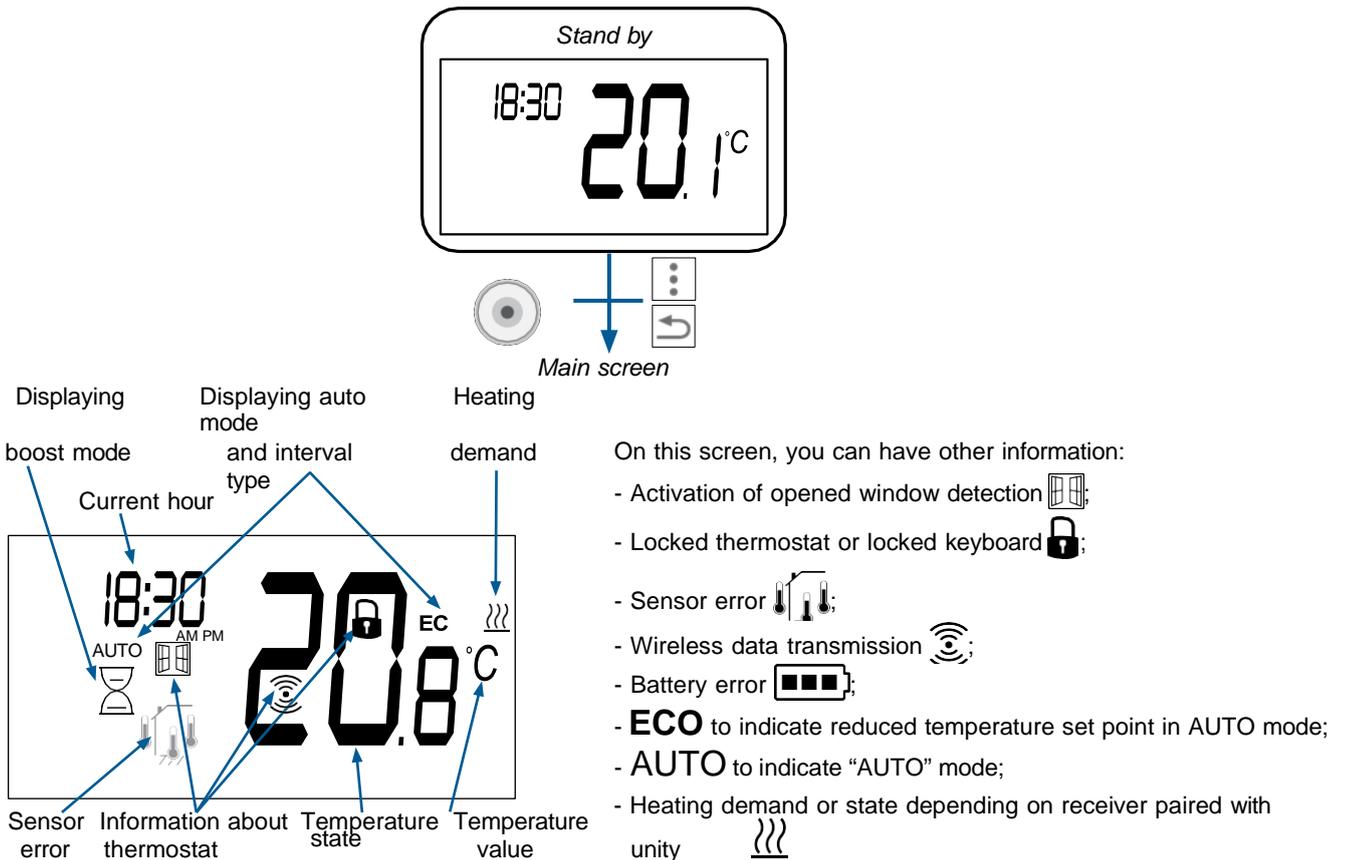
With reduced/ECO logo **ECO** , it means reduced set point temperature in auto mode.
 In other configuration, set point temperature defined by user is applied in auto mode

5. Mode selection

5.1 Architecture of menus

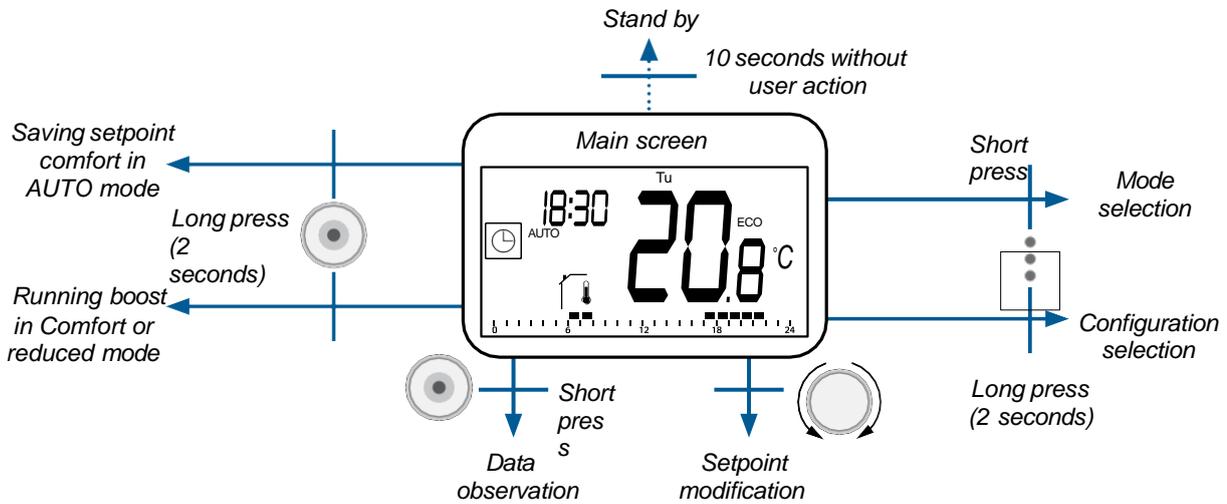


5.2 Standby screen description

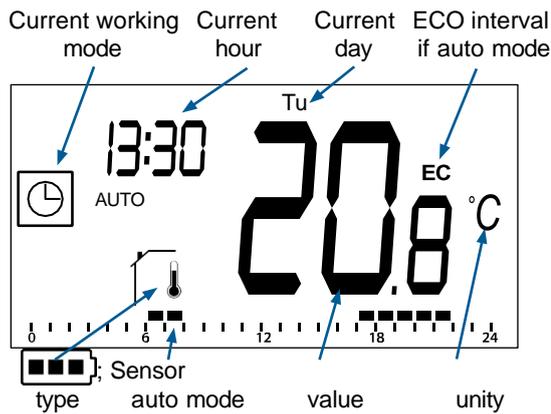


5.3 Main menu description

This setting depends on selected working mode by user (see paragraph "Working mode description").



Displayed data are presented on the figure below:

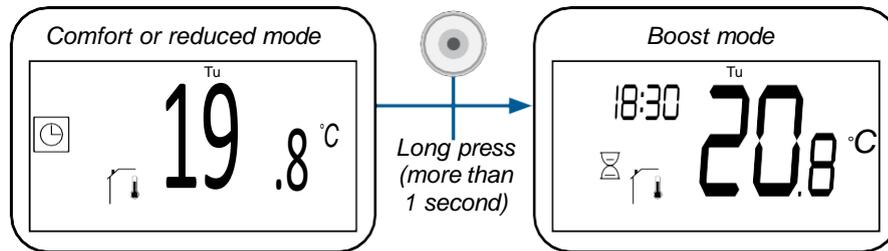


On this screen, you can have other information:

- Activation of opened window detection
- Bar graph when working mode is Auto mode **AUTO** and
- If user press home button , battery level will be displayed Bar graph if Temperature Temperature - Heating demand .

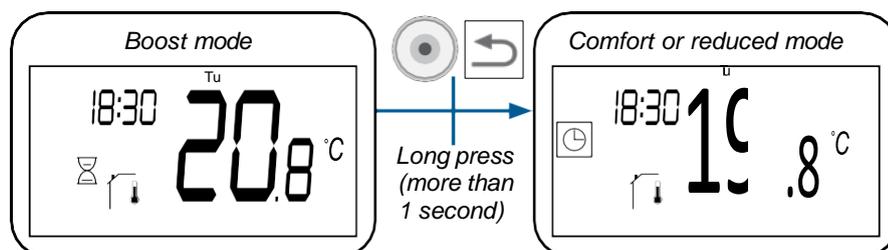
5.4 Launching & disable boost

Launching boost



Launching a boost is only possible in reduced and comfort mode (☀️ & 🌙). Before to be launched, user has to configure timer value as presented in paragraph "Working mode description".

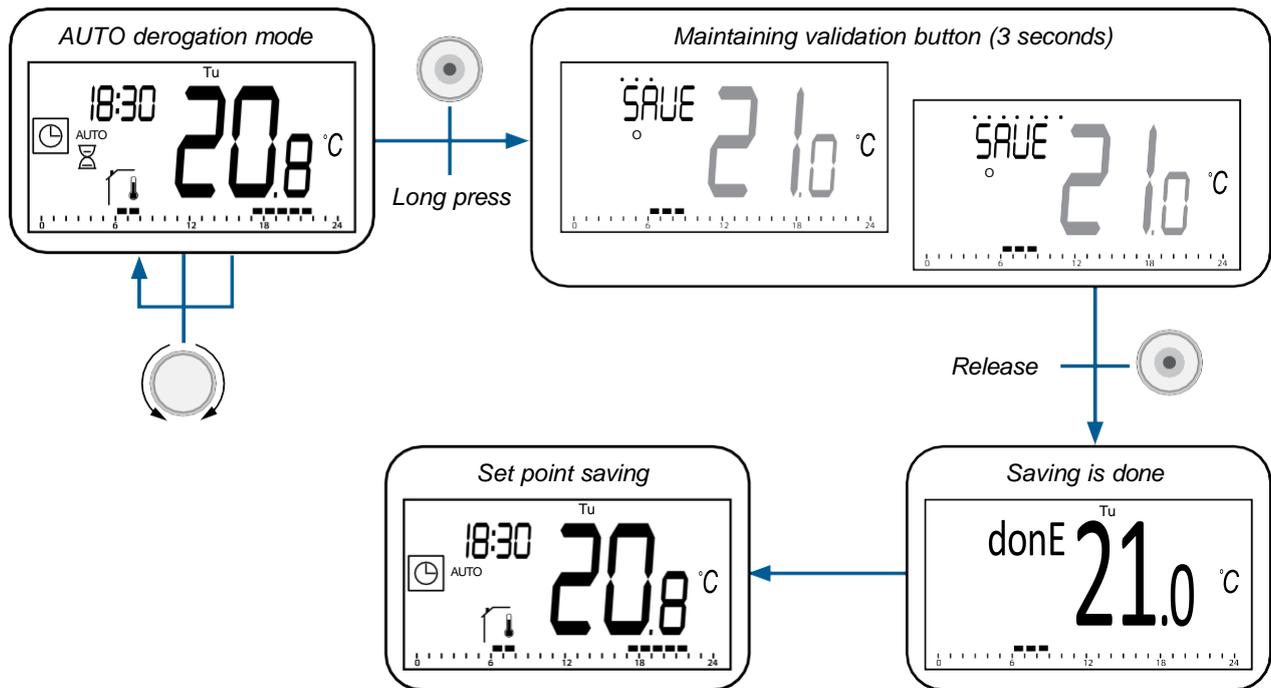
Disable the boost mode



The user can stop the boost by pressing or for more than a second, the previous mode is applied (comfort or reduced).

5.5 Saving temperature set point in AUTO mode

The thermostat is configured in AUTO mode ( & AUTO) and a derogation of temperature set point is launched. To save this new set point value (temperature of derogation auto mode), user must start a derogation of AUTO mode and after holds validation key  during few seconds (see figure below). After set point saving, thermostat will return to AUTO mode without derogation.



Important notes:

- ⊙ To modify temperature setpoint of a comfort step with this method, user must launch a derogation. If a setpoint derogation isn't launched, user can't modify setpoint in this functioning mode.
- ⊙ If user has launched a setpoint derogation during an "ECO step", he won't be able to modify ECO setpoint with this method. It is forbidden by the thermostat:

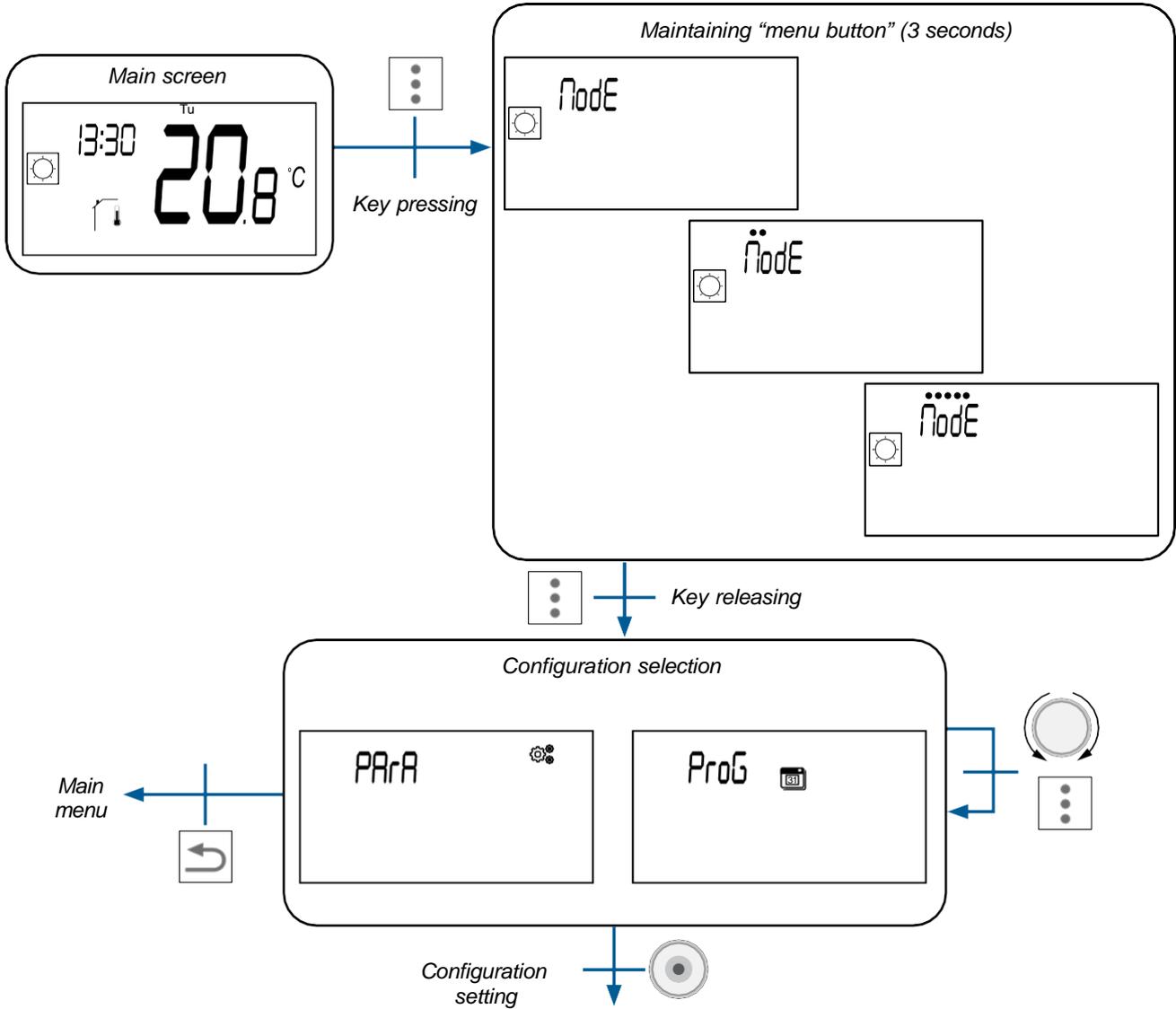


- ⊙ If user has done a modification of setpoint, this information is directly saved in product memory.

After setpoint saving, derogation mode is deleted. New setpoint is applied for the current comfort step. AUTO derogation mode is stopped.

5.6 Selection of configuration menu

User accesses to selection of configuration menu by pressing  during 3 seconds:

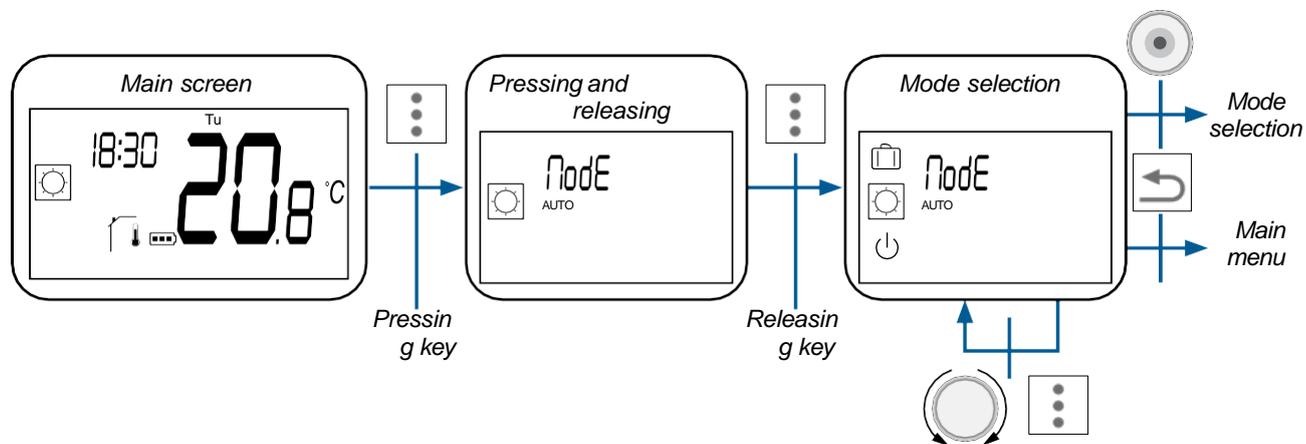


There are two different configuration menus:

LCD displaying	Menu selection name	Description
	Program selection & program edition	User will choose a program to apply in Auto mode  AUTO User will edit user program or select built-in programs or edit built-in programs (see paragraphs "Program selection menu" and "Program edition menu"). <u>Important point:</u> This configuration isn't available when thermostat is paired with a central unit.
	User parameter selection	User will go to menu to select thermostat parameter to set (see paragraph "How to access to user parameter selection menu".)

With respect of receiver types and thermostat configuration, different navigation menus can be used.

a. How to access to mode selection menu



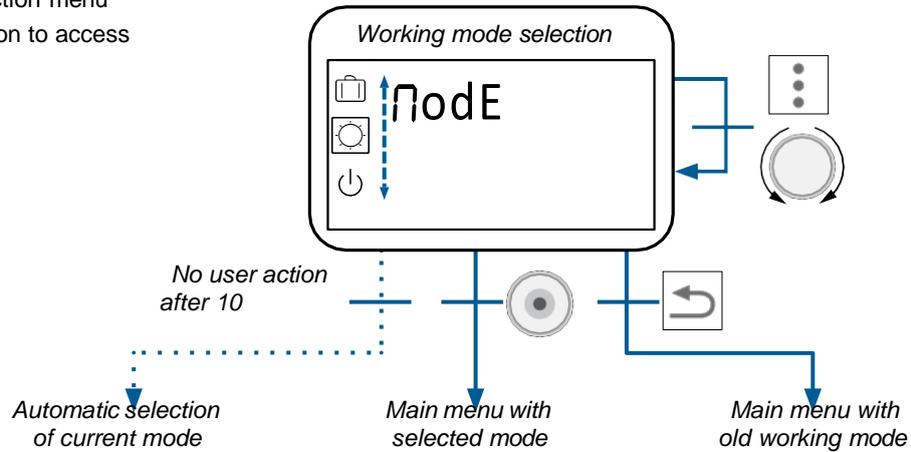
b. Working mode list

Table below introduces all working modes of thermostat (see paragraph "Working mode description").

Logo	Working mode
	Holiday mode
 and AUTO	Auto mode
	Comfort mode if heating configuration are selected (see paragraph "User parameter description")
	Eco/Reduced mode
	Boost mode
	Anti-freeze mode
	Off mode

c. Description of mode selection menu

Figure below shows navigation to access to different modes:



Depending system configuration, number of selectable working modes is different as presented in the table below:

System configuration	Working mode list
Classical	      
with "basic navigation"	 

In details, the automatic mode selection after 10 seconds of user inactivity is specific:

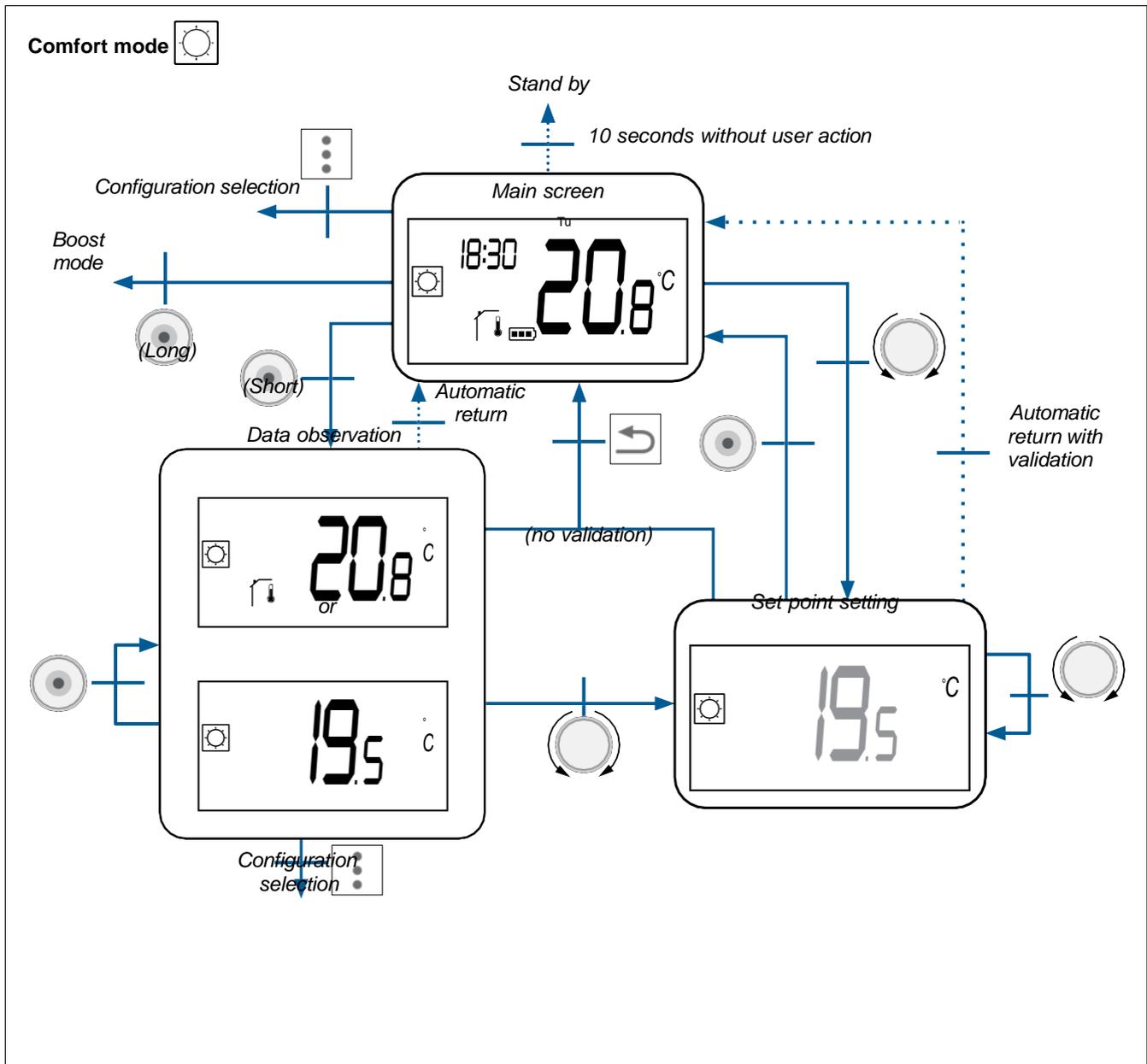
- ⊙ If current selected mode is  or  or   or , automatic selection keeps current selected mode ;
- ⊙ If current selected mode is holiday mode  or timer/derogation , the remote returns automatically to the old mode  or  or   or .

d. Working mode description

Pressing key has an action with respect of the key:

- ⊙ Reset (key on the back of the device): permits to unlock the device, enter directly in pairing mode and to reset the device with factory configuration;
- ⊙  permits to change set point temperature;
- ⊙  permits to validate parameter modification or to change displayed temperature (set point or measure) and to save comfort temperature setpoint during derogation in AUTO mode to access to boost mode.;
- ⊙  permits to access:  to menu of mode selection with a short press;
 to configuration selection menu with a long press (see § "Selection of configuration menu").
- ⊙  permits to return directly to main menu without setting validation.

Note: the reset key situated on the back of the device permits to access to specific menus.

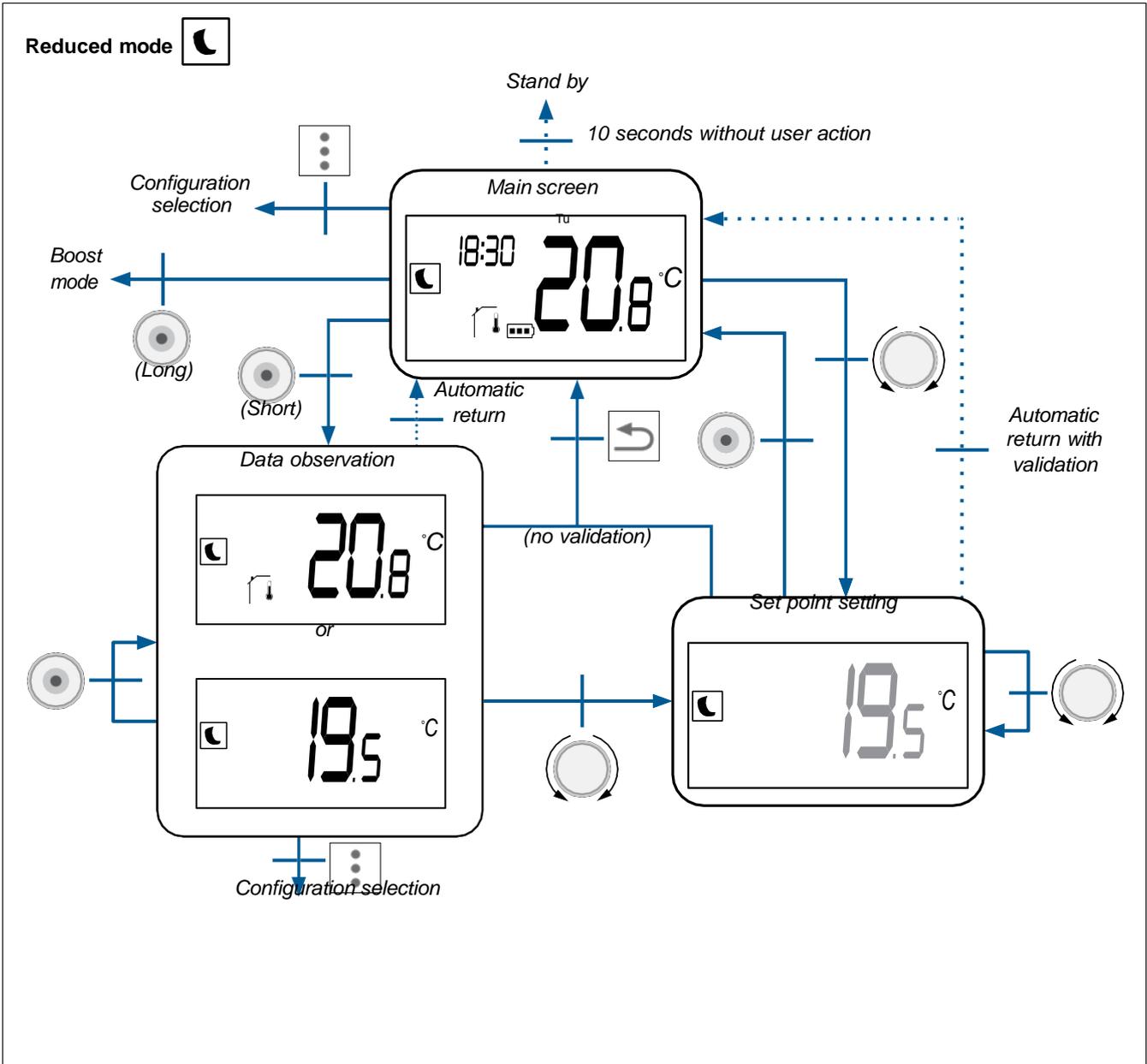


From the main menu (lighted backlight), by turning button temperature set point starts to blink.
 By turning button more, the comfort setting temperature can be modified. Temperature set point value is automatically validated.

From the main screen, by pressing key, mode selection menu or configuration selection menu is displayed.

From the main screen, by pressing key, measure temperature and set point temperature are displayed alternatively. From any screen, by pressing key, main menu is displayed without any setting validation.

	Default value	Range
Comfort mode	19°C	10.0°C to maximum set point temperature (see paragraph "professional parameter description")
Reduced mode	17°C	5.0°C to 19°C (or comfort setpoint if it's lower than 19°C)
Anti-freeze mode	7°C	0.5°C to 10°C
Boost mode	30°C	5°C to 30°C

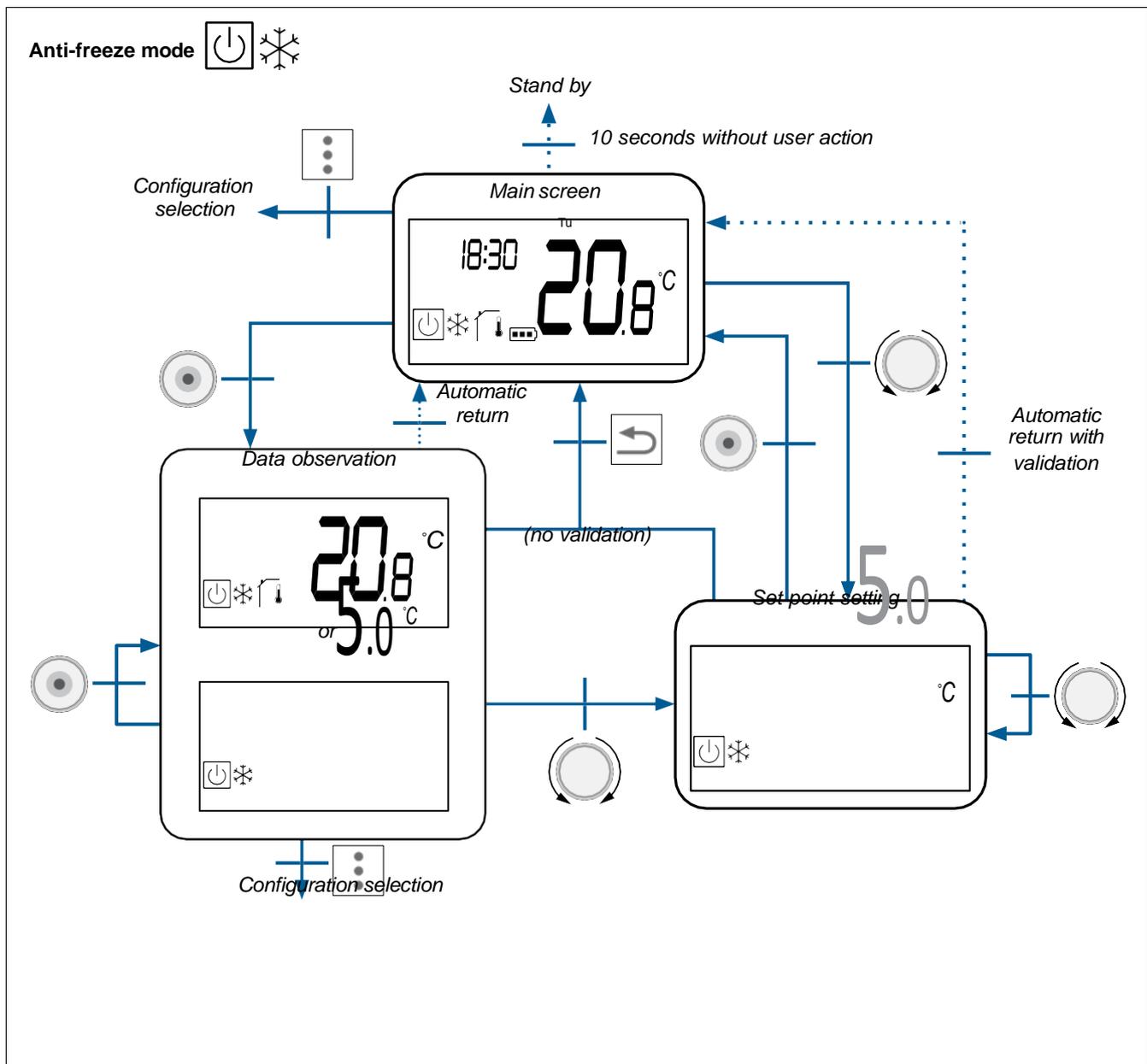


From the main menu (lighted backlight), by turning (right) button temperature set point starts to blink. By turning (left) button more, the reduced setting temperature can be modified. Temperature set point value is automatically validated.

From the main screen, by pressing (top) key, mode selection menu or configuration selection menu is displayed.

From the main screen, by pressing (right) key, measure temperature and set point temperature are displayed alternatively. From any screen, by pressing (left) key, main menu is displayed without any setting validation.

	Default value	Range
Comfort mode	19°C	10.0°C to maximum set point temperature (see paragraph “professional parameter description”)
Reduced mode	17°C	5.0°C to 19°C (or comfort setpoint if it's lower than 19°C)
Anti-freeze mode	7°C	0.5°C to 10°C
Boost mode	30°C	5°C to 30°C

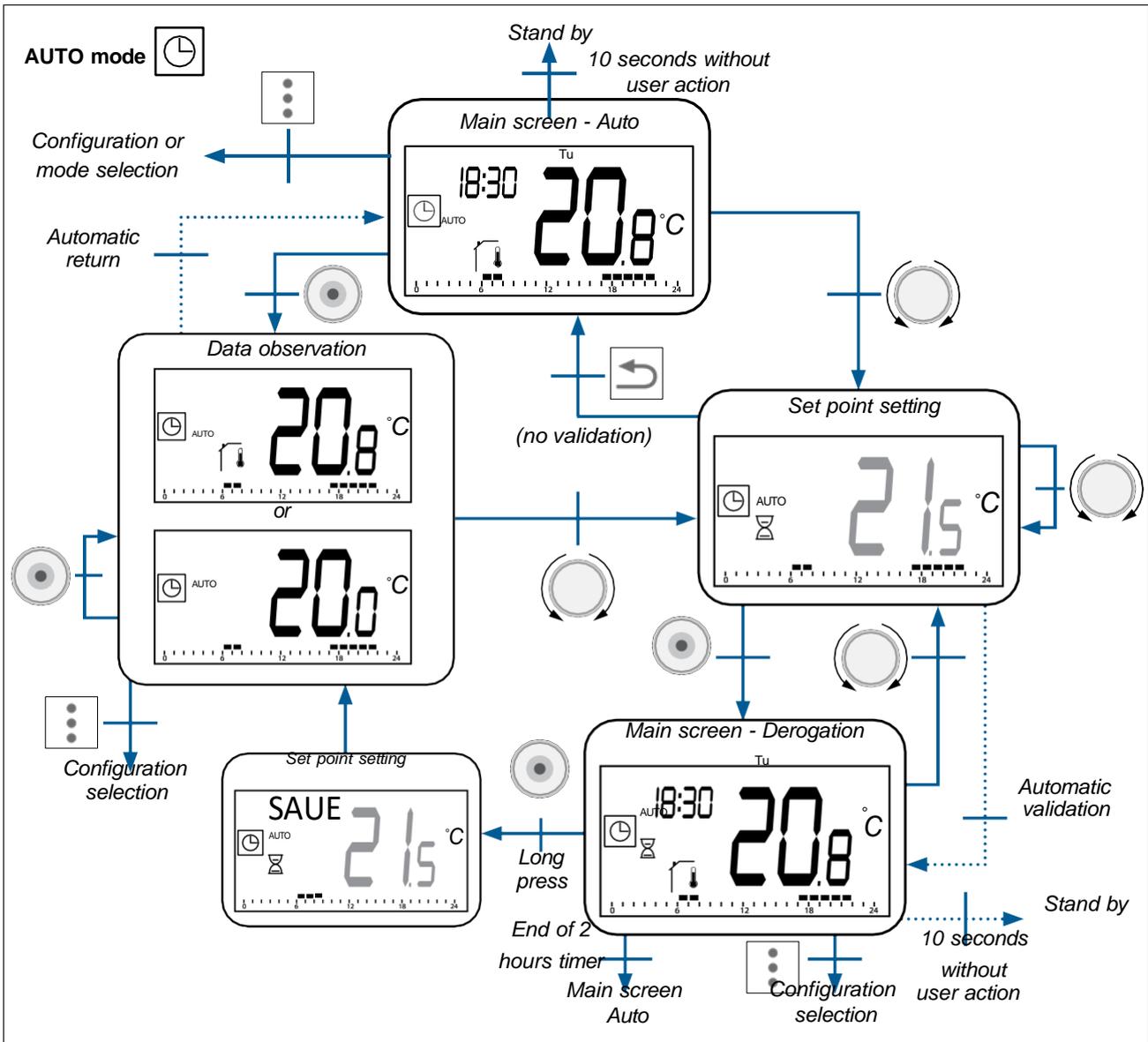


From the main menu (lighted backlight), by turning button temperature set point starts to blink. By turning button more, the anti-freeze setting temperature can be modified. Temperature set point value is automatically validated.

From the main screen, by pressing key, mode selection menu or configuration selection menu is displayed.

From the main screen, by pressing key, measure temperature and set point temperature are displayed alternatively. From any screen, by pressing key, main menu is displayed without any setting validation.

	Default value	Range
Comfort mode	19°C	10.0°C to maximum set point temperature (see paragraph “professional parameter description”)
Reduced mode	17°C	5.0°C to 19°C (or comfort setpoint if it’s lower than 19°C)
Anti-freeze mode	7°C	0.5°C to 10°C
Boost mode	30°C	5°C to 30°C



In Auto mode, the heating system will follow program according to the actual time and the Comfort and Reduced setting temperatures.

By turning button , derogation mode is selected (cf. paragraph "Derogation in Auto mode").

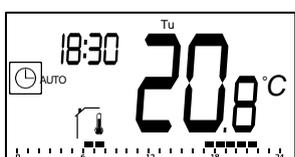
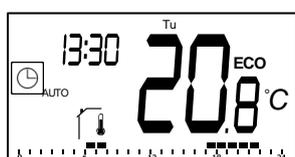
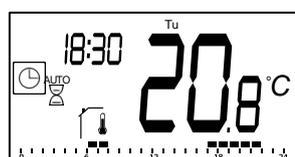
From the main screen, by pressing  key, mode selection menu or configuration selection menu is displayed.

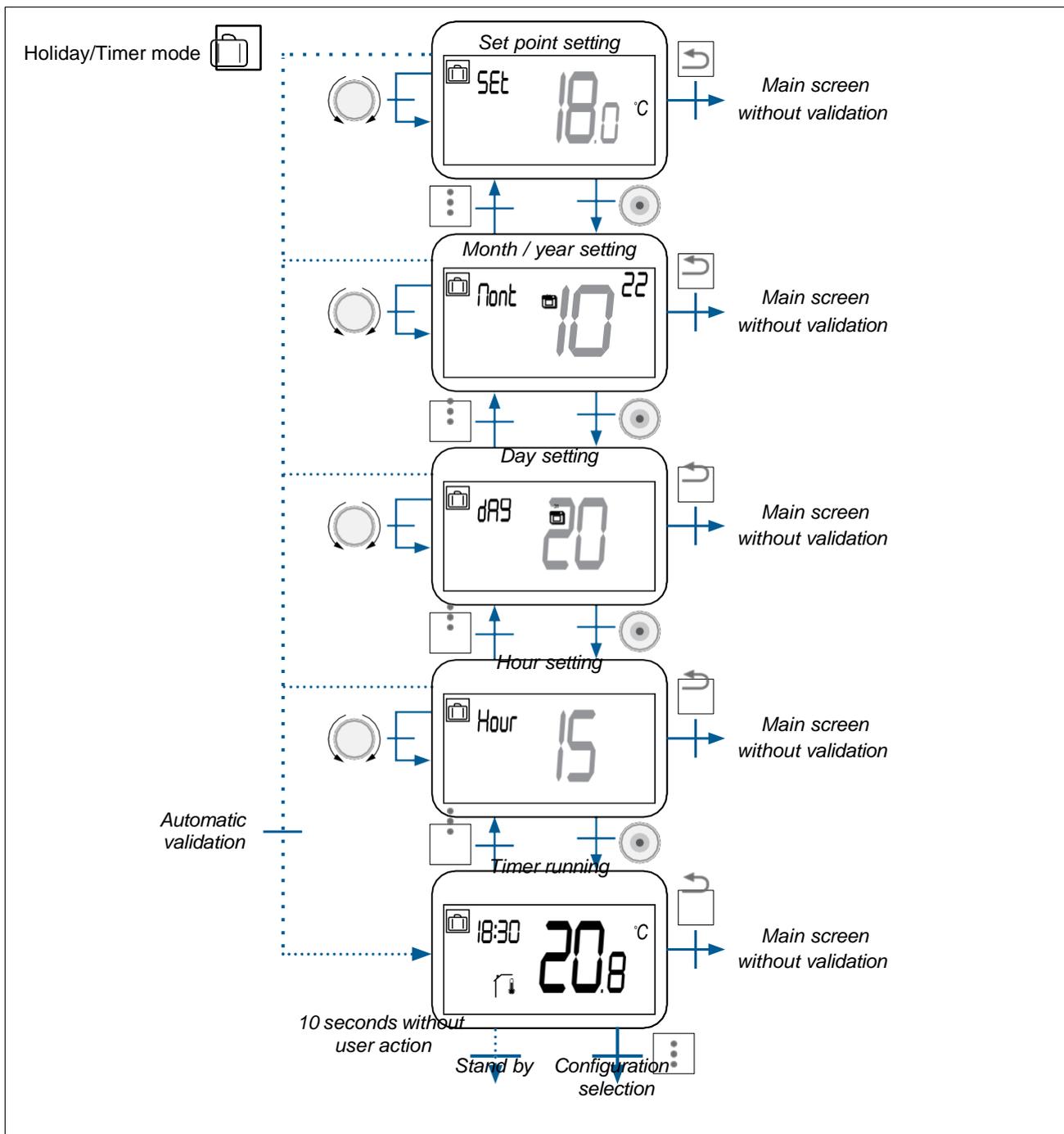
From AUTO derogation menu, holding  permits to save derogation set point as new comfort set point of program step (see paragraph "Saving of temperature set point in AUTO mode").

From the main screen, by pressing button , measure temperature and set point temperature are displayed alternatively.

From any screen, by pressing  key, main menu is displayed without setting validation or without derogation.

Particular cases: When thermostat is paired with a central unit, set point temperature could be comfort or reduced temperature set point. User can't change program. He can only override temperature set point with derogation mode.

Auto comfort mode	Auto reduced / ECO mode	Auto overridden mode
		



In Holiday/timer, set point temperature is applied during a selected time.

a) **Temperature set point setting:** this value is set by turning button . By pressing button the value is validated.
Default value: 24°C - **Value range:** 5°C to 35°C

b) **Return date setting:** the next 3 steps permit to set month, day and hour of holiday ending.

- bottom change parameter value / button validates parameter setting / returns to previous parameter.

c) **Timer running:** Menu logo starts to blink. Time and temperature values are displayed.

d) **Timer end:** When the counter is finished, thermostat returns to previous current

mode. From the main screen, by pressing key, configuration selection menu is displayed.

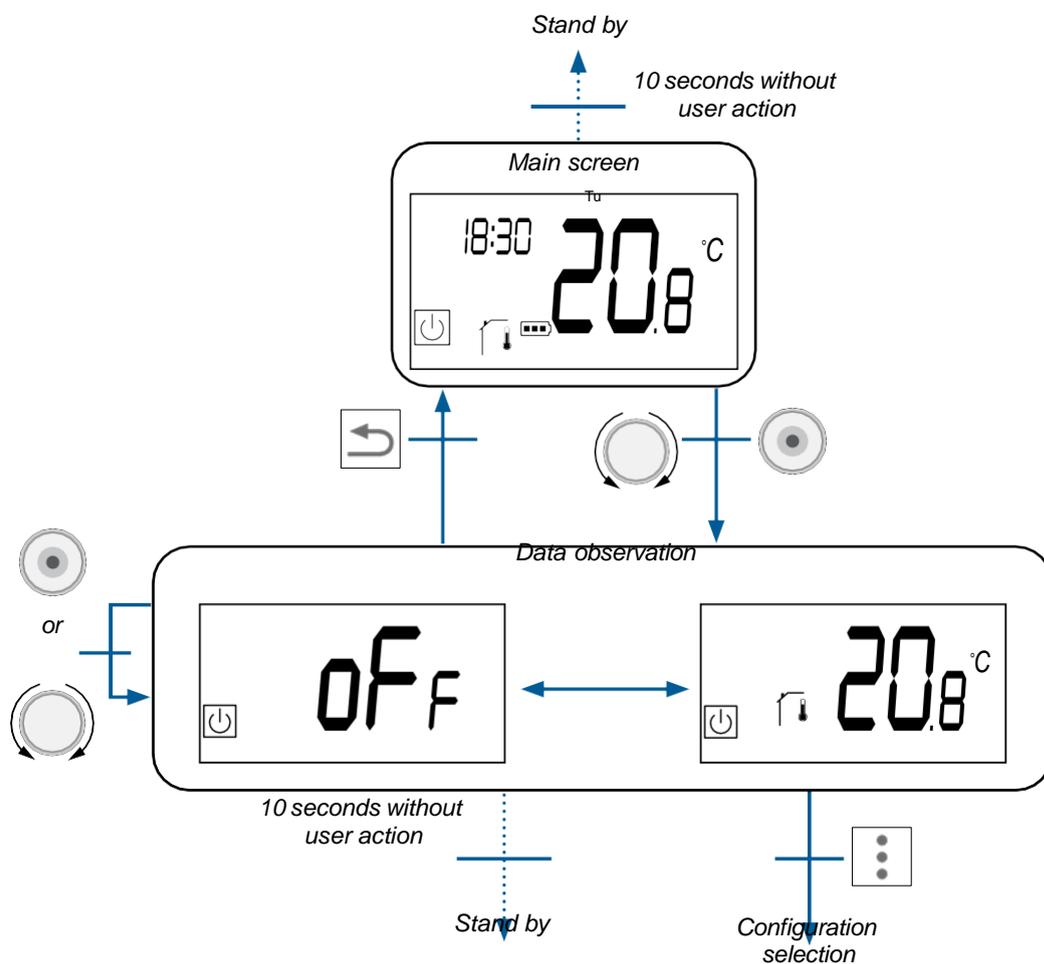
From the main screen, by pressing button, measure temperature and set point temperature are displayed alternatively.

From any screen, by pressing key, main menu is displayed without setting

Default value	Range
---------------	-------

validation.	7°C	5°C to 30°C
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Off mode

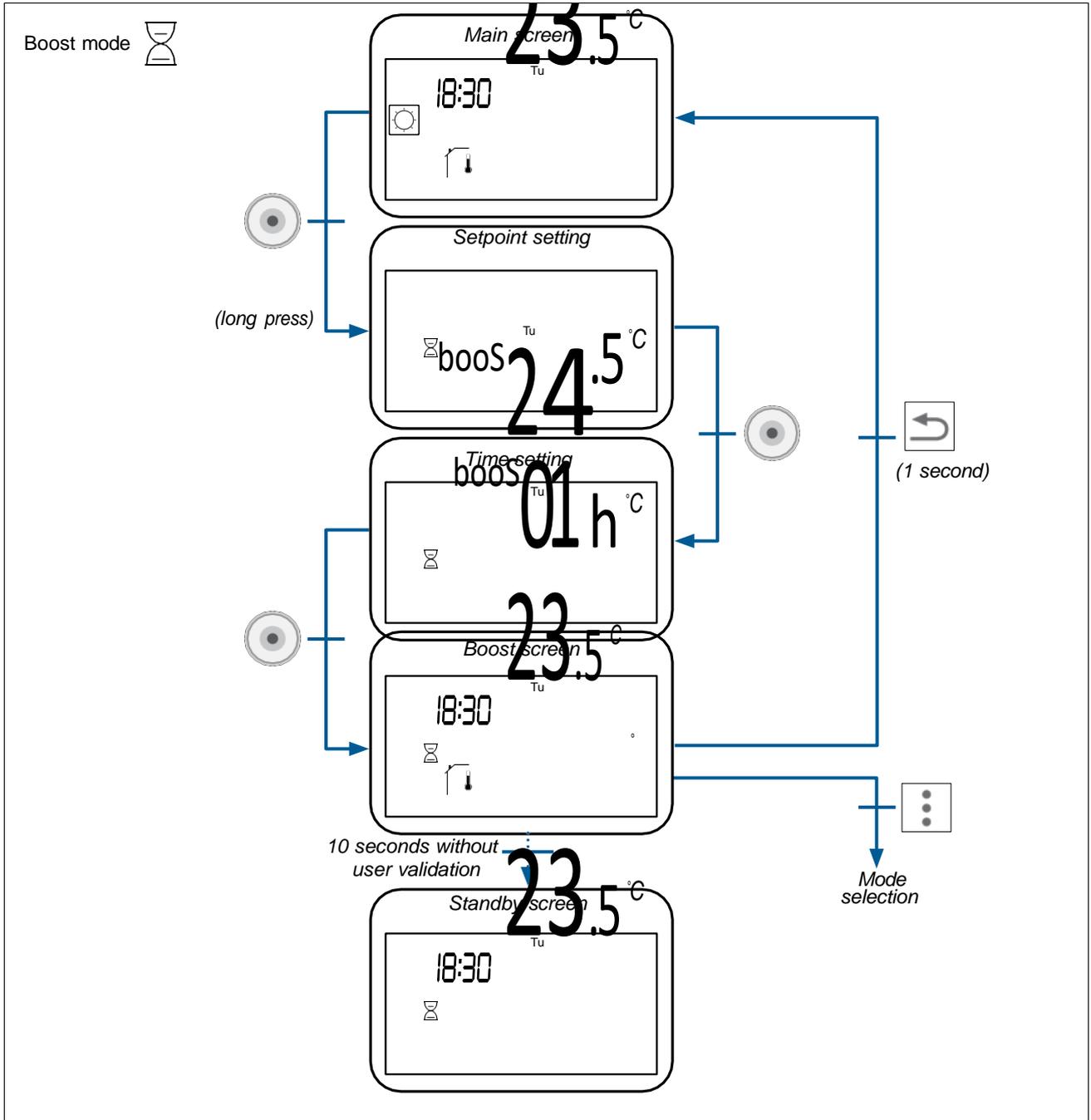


In standby mode, only « Off logo » mode is displayed.

From the main screen, by pressing or turning rotator button  or , temperature and humidity measurements and "off" (heating installation could freeze in this mode) are displayed.

From the main screen, by pressing  key, mode selection menu or configuration selection menu is displayed.

From the main screen, by pressing  button, measure temperature and set point temperature are displayed alternatively. From any screen, by pressing  key, main menu is displayed without any setting validation.



This mode allows the users to boost the heating with a different set point temperature during chosen duration.

User can access to this mode by pressing long when thermostat is one of these modes (comfort or reduced). It's impossible to activate a boost mode in other menus.

Temperature set point setting: The setting of the temperature value is done with button . Key permits to validate the setpoint.

Time setting: the setting of the time value is done with button . Key permits to validate time value and to tart boost period.

Timer is running: the boost logo is flashing. Remaining time and measured temperature are displaying. Turning permits to change settings.

From the main screen, by pressing button, measure temperature and set point temperature are displayed alternatively.

Pressing during 1s stops timer. The thermostat returns to the old selected mode.

Default value	Range
24°C	5°C to 30°C

Pressing	stops boost and goes to another menu.
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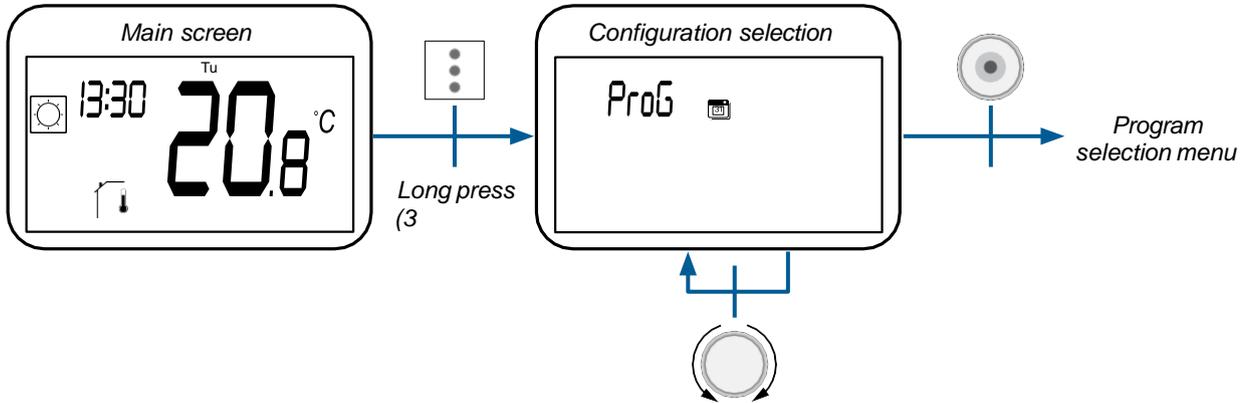
no

0h to 44d

6. Program selection menu

This menu isn't available when thermostat is paired with a central unit.

6.1 How to access to program selection menu

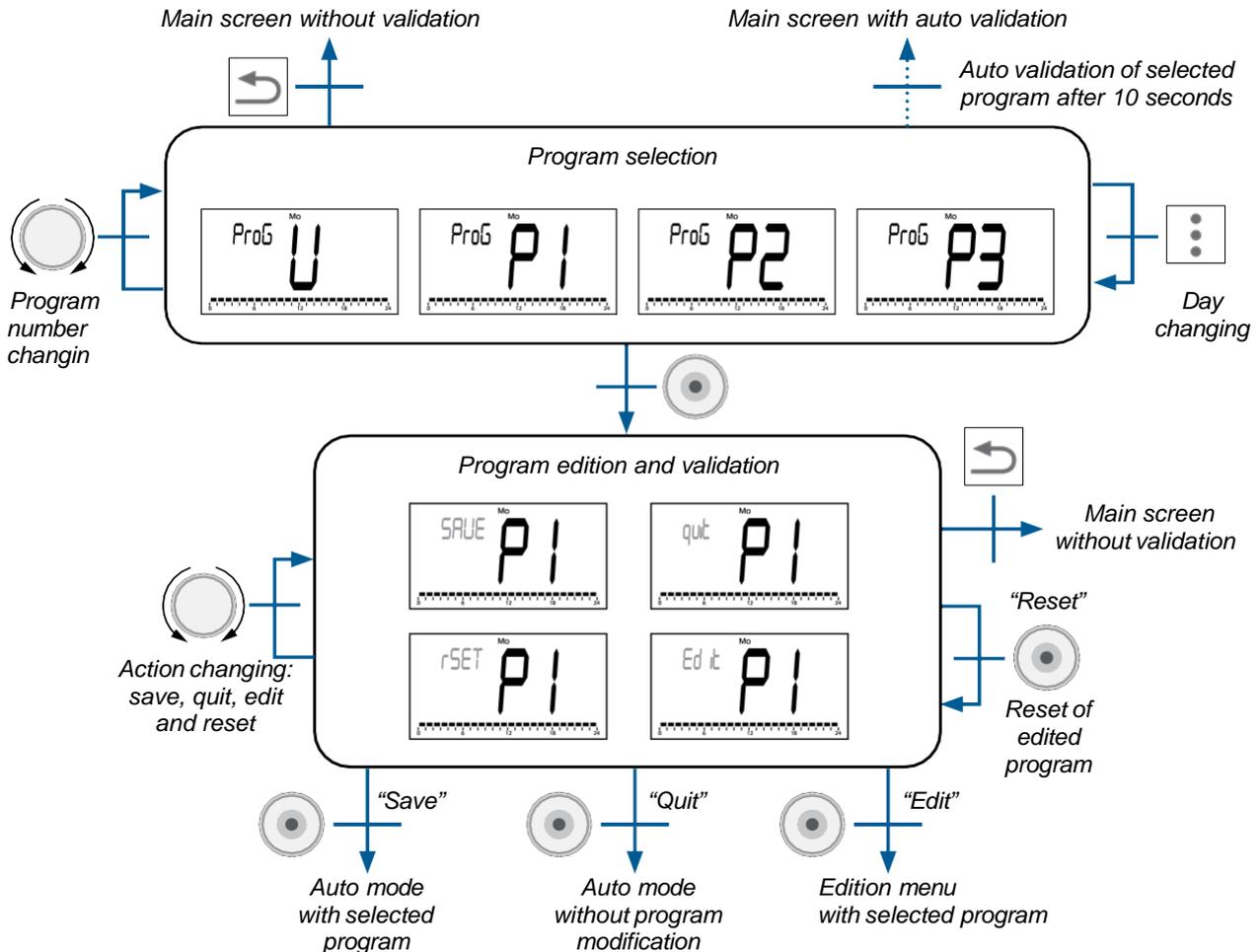


6.2 Description of embedded and user programs

User can choose a program between four:

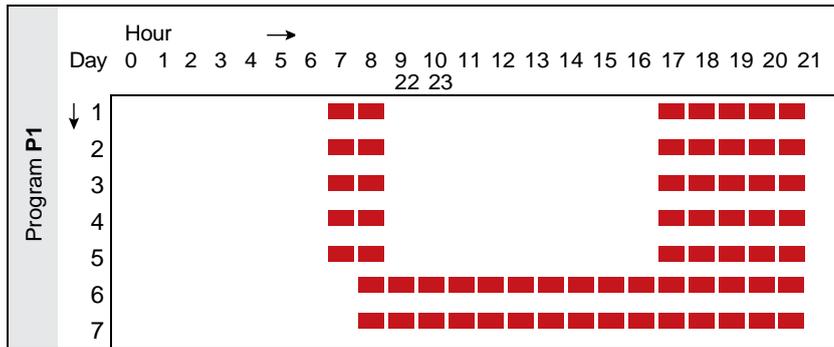
- P1 to P3: Built-in program (see paragraph "Built-in program description");
- U: User program which can be modified by final user (see paragraph "Program edition menu").

6.3 Description of program selection menu

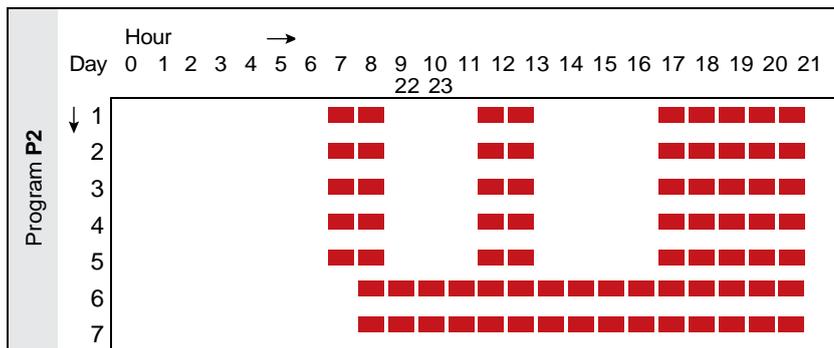


6.4 Built-in program description

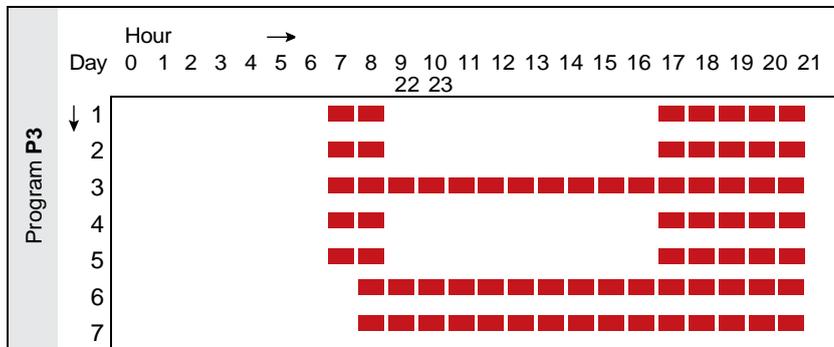
P1 (Default program): Morning (7h-9h), Evening (18h-23h) & Week-end (8h-23h)



P2: Morning (7h-9h), noon (12h-14h), Evening (18h-23h) & Week-end (8h-23h)



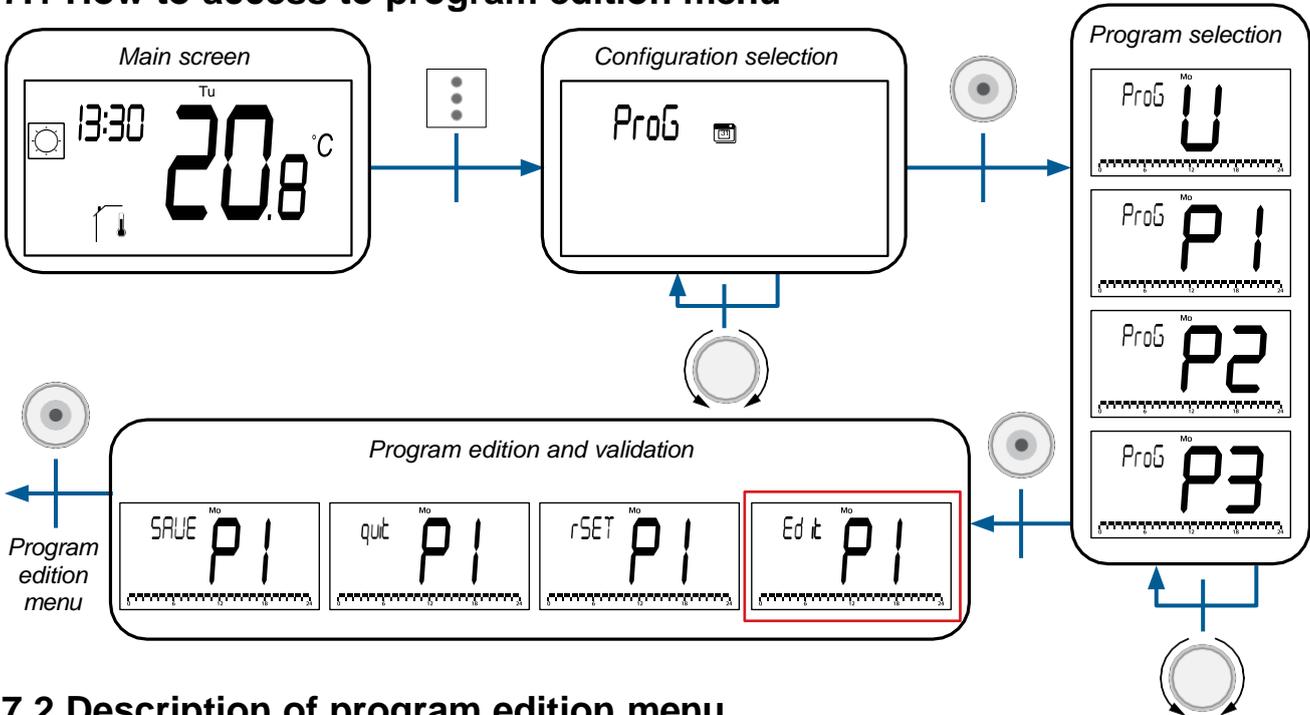
P3: Morning (7h-9h), Evening (18h-23h) & Wednesday (7h-23h) & Week-end (8h-23h)



7. Program edition menu

This menu permits to modify user program "U". It isn't available when thermostat is paired with a central unit.

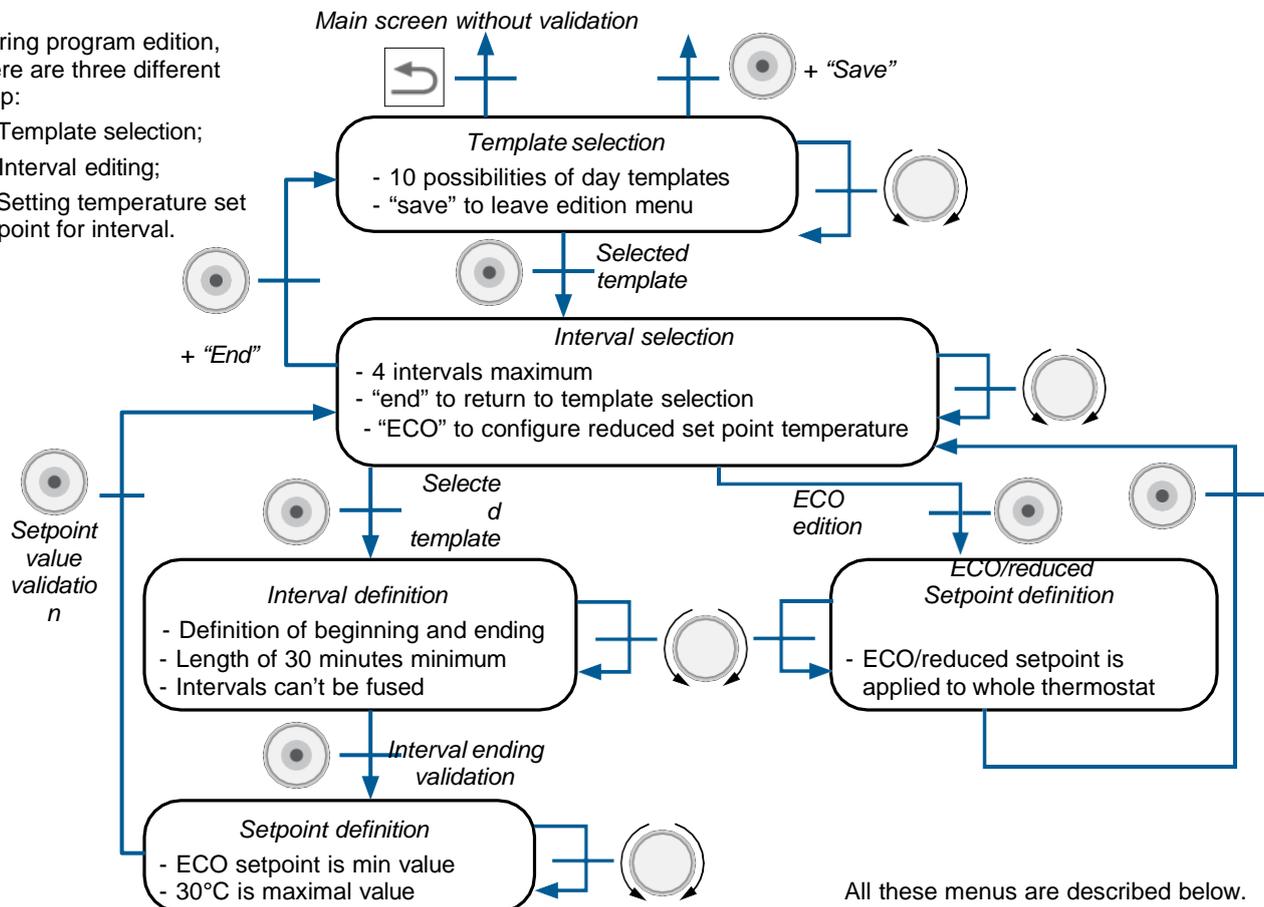
7.1 How to access to program edition menu



7.2 Description of program edition menu

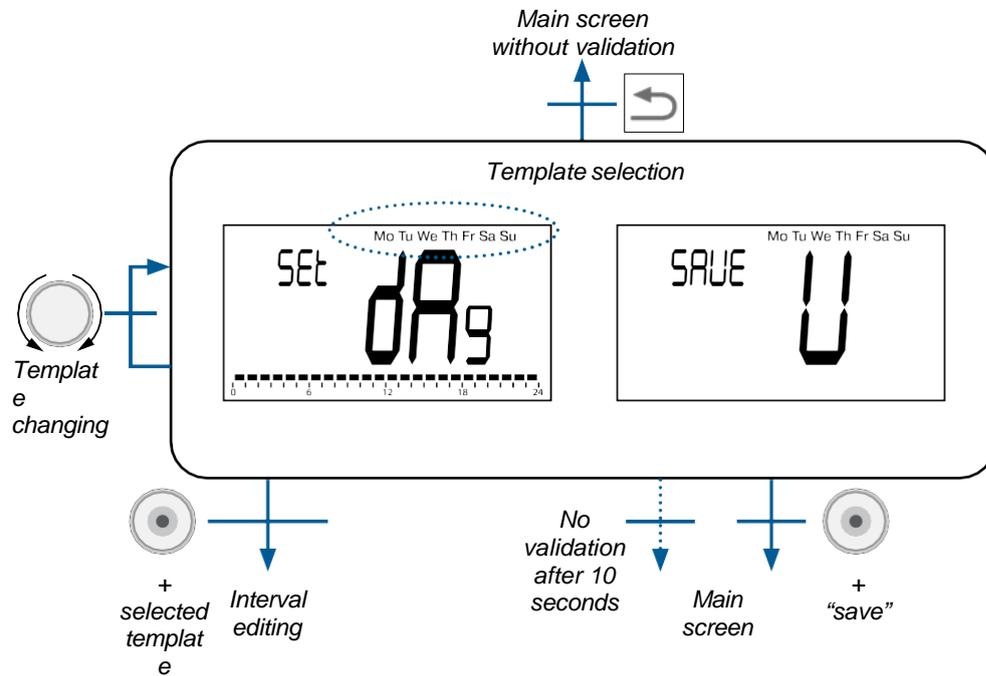
During program edition, there are three different step:

- ⊙ Template selection;
- ⊙ Interval editing;
- ⊙ Setting temperature set point for interval.



All these menus are described below.

Template selection



There are 3 different templates predefined in the device (see below) or a “day by day” programming and a “save” menu:

Type	LCD displaying	Description
Template	Mo Tu We Th Fr Sa Su	All days of the week will have the same configuration
	Mo Tu We Th Fr	All days between Monday and Friday will have the same configuration
	Sa Su	Saturday and Sunday will have the same configuration
Day	Mo	Each day has its own configuration. User will edit selected day
	Tu	
	We	
	Th	
	Fr	
	Sa	
	Su	
“Save”		Save edited user program and return to main menu

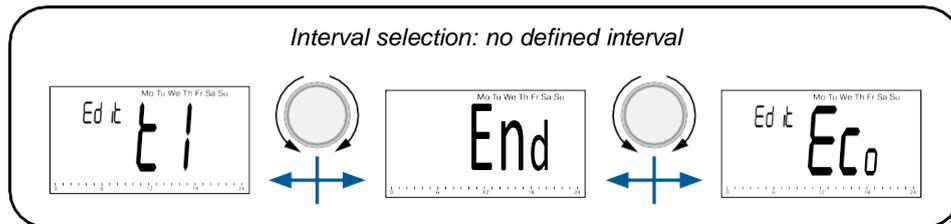
7.3 Interval selection

User will be able to define four intervals per day. "t1" to "t4" corresponds to "time 1" to "time 4".

Each interval will have its own temperature set point.

Set point value is higher than ECO temperature set point and its maximal value corresponds to 30°C.

When user starts program edition, he can select interval "t1" (time 1), "ECO" to define reduced set point or select "SAVE" to finish configuration without any interval.



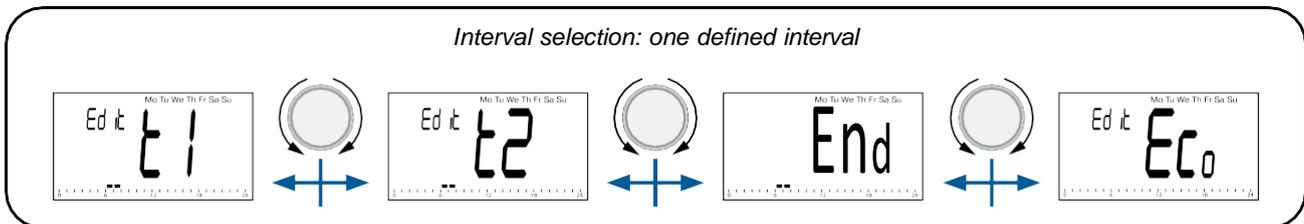
After edition of the first interval "t1", user can select :

interval "t1" for modification,

interval "t2" for edition of a new interval,

"ECO" to define reduced set point or

"SAVE" to save program with only one interval.

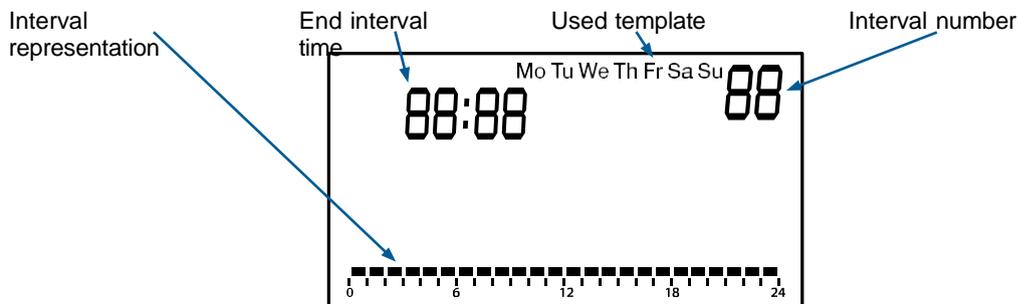


Important points:

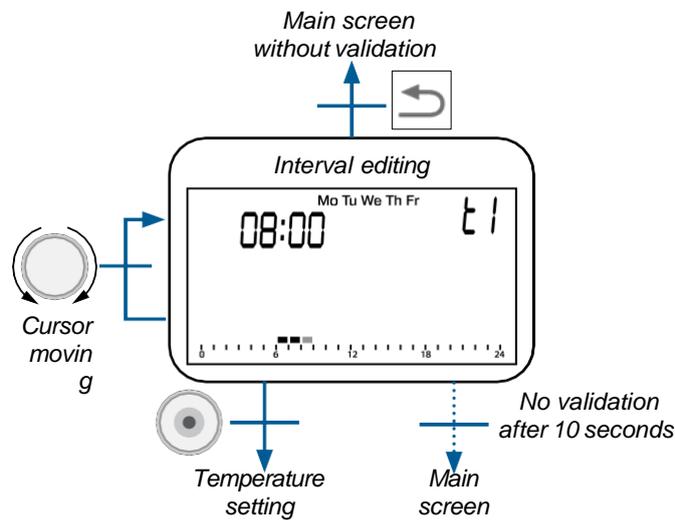
- ⊙ Without any edited "comfort" interval, thermostat will apply during all day ECO temperature set point.
- ⊙ ECO/reduced set point value can be modified in "program edition menu". But, user will be able to modify this value by going to "reduced/ECO mode" (see paragraph "Working mode description/Reduced mode"). If user changes reduced/ECO set point, program temperature set point will be updated with this new value.

7.4 Edit program: interval editing

Description of information displayed on LCD:



Description of HMI:



Important points:

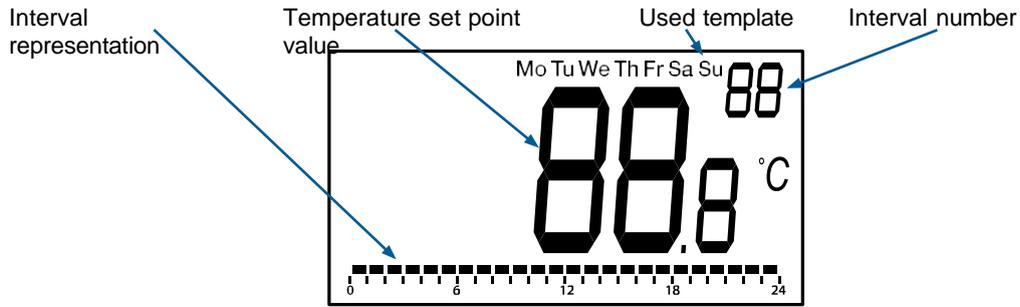
- ⊙ If user press validation key  at the beginning of interval, user will return to the selection of interval number.
- ⊙ User can't rewrite an existing interval with a new one. He has to modify existing interval and, after, to add new interval.
- ⊙ Minimum size of an interval corresponds to one hour.
- ⊙ If user wants to add new interval, a "free" area of 1H00 is needed (see examples in the next table).
- ⊙ Minimal size of interval is automatically managed.

Study cases	Examples
Impossible to add new interval	
Allowed to add new interval	

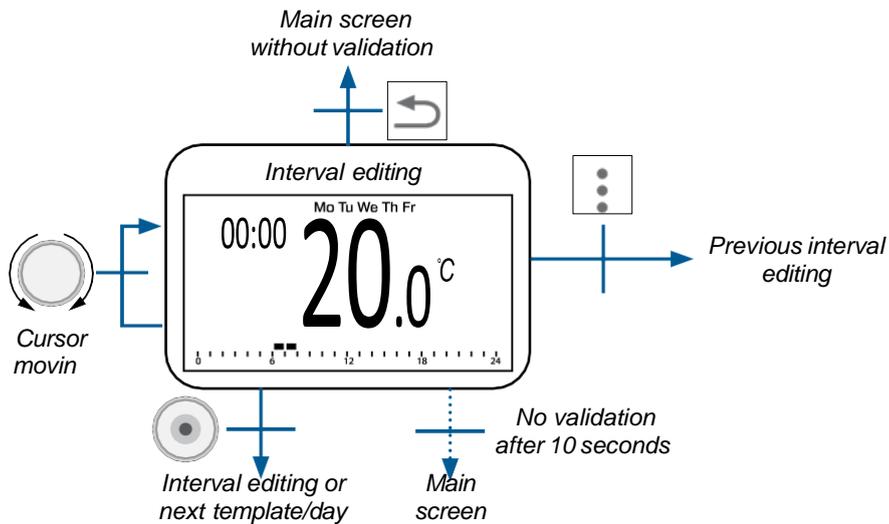
7.5 Set point definition

Set point values are strictly higher than ECO set point value (+0.5°C) and the maximum value defined with user parameters (see paragraph "User parameter description").

Description of information displayed on LCD:

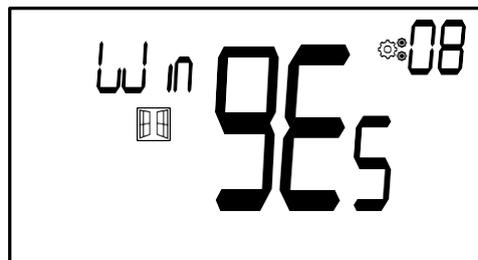


Description of HMI :



9. Opened windows detection

Enter user parameter #08.



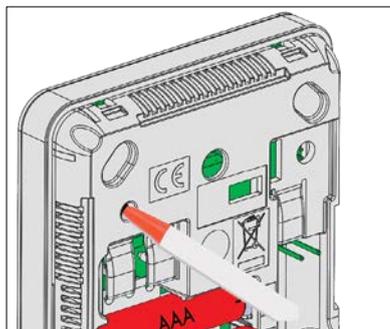
When activated and a detection is running, the icon will appear and blink on the screen!; This function is done by measuring and recording the temperature evolution.

When an opened window is detected, the thermostat applies to heating system antifreeze temperature set point. User can restart heating system, and stops window detection by pressing on a key.

10. Reset

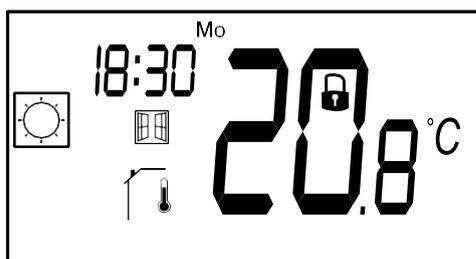
By holding the button on the back of thermostat, user can: - Unlock pin code - Go directly to pairing menu (5 seconds)
- Reset thermostat with user parameter value equal to factory setting (10 seconds).

5/10 seconds



11. Keyboard locking

Wake-up the thermostat (lighted backlight), Press and hold  and  keys simultaneously. Once locking is activated, logo appears on the LCD screen:



12. PIN code

To activate this function enter user parameter 10 then define the PIN code in parameter 11.

The PIN code protect the thermostat from any change of the setting as temperature or mode. When user pushes a key, "PIN" will be displayed.

If user press another time a touch, he has to enter PIN number.

13. Other informations

13.1 Heating indication Logo

Heating is  (comfort mode).

13.2 Wireless communication functioning

When digital thermostat sends an RF frame, LCD logo  blinks during transmission. RF frame is sent:

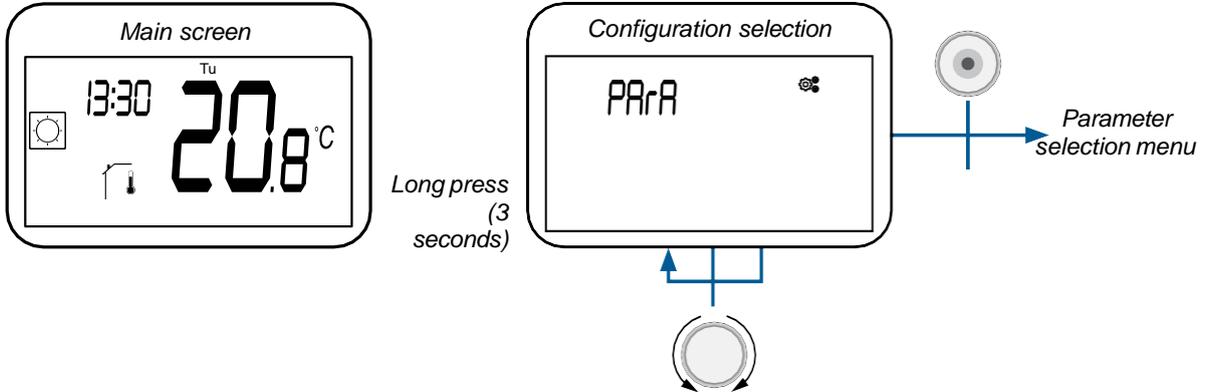
- When user press any key of the thermostat
- When user press key in Central Touch screen to update the thermostat
- Automatically every 3-4 minutes

13.3 Battery level indication

The icon will blink  on LCD screen. After battery replacing,  won't be displayed. User has to push home button  in main menu to display battery value.

14. Parameter selection menu

14.1 How to access to user parameter selection menu

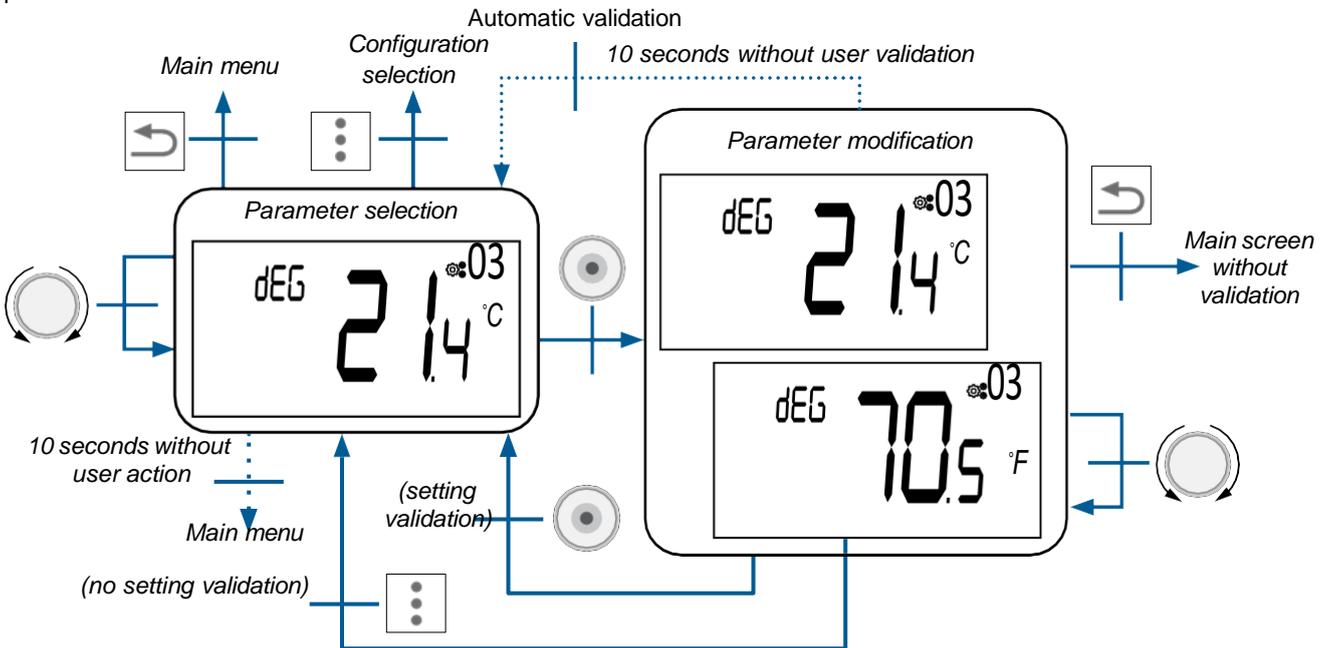


14.2 Description of user parameter setting

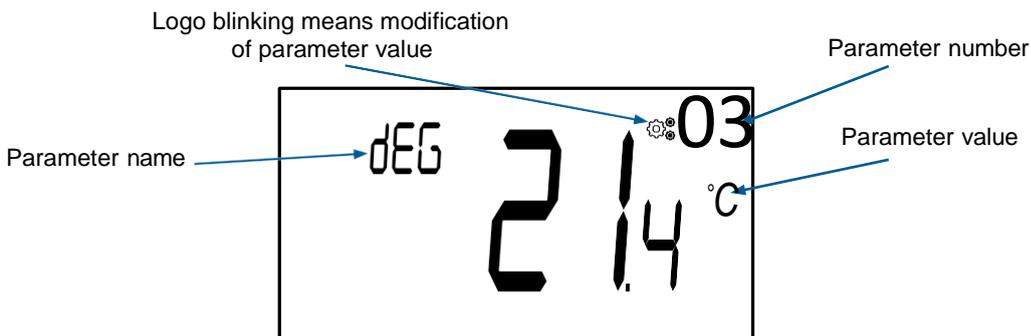
Except for setting time and date (see paragraph "Time and date edition menu"), other parameters are set following the same method.

The menu scroll is done with rotator button (⌚). Menu is selected by pressing key (⊙).

Once in the menu, the parameter value is changed by turning rotator button (⌚). Pressing again key (⊙) sets the parameter value.



Information displaying on LCD screen:



15. User parameter description



Setting of time and date

If user selects this menu, he will configure time and date as presented in paragraph "Time and date edition menu".



Default value: 24H

Values: 24H /12H

Selecting the clock display format "time"

"24H": 24:00 format



"12H" AM/PM: 12:00 AM/PM format

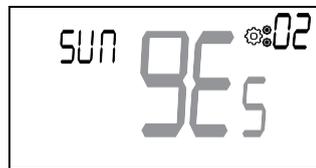


Default value: Yes

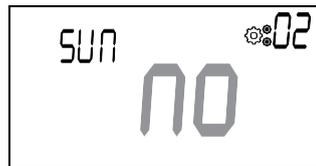
Values: Yes / no

SUM – Daylight summer time

"Yes": thermostat changes automatically time (summer/winter) according to date.



"no": thermostat doesn't change automatically time



Default value: °C

Values: °C / °F

Degree unity for displaying

"°C": Celsius



"°F": Fahrenheit



“basic navigation” configuration

⊙ “Yes”: activation of function, restrict to comfort and off mode



Default value: no

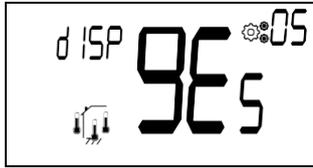
Values: Yes /no



⊙ “no”: no activation



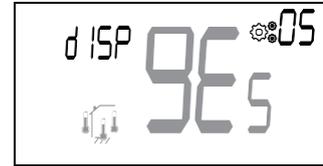
Room temperature display



Default value: no

Values: Yes /no

⊙ “Yes”: remote displays measured temperature



⊙ “no”: thermostat displays set point temperature



Calibration of internal room sensor

This menu is only displayed if parameter rEG (#20) is set with “Air” or “Fil”. Calibration must be done after a given order has been operating for a day. Place the thermometer in the middle of the room at about 1.5 m above the floor. Record the temperature shown after 1 hour.

Enter the reading on your thermometer turning button  (step of 0.1°C).



Default value:
0°C of offset

Values:
between -5.0°C and 5.0°C



The setting is validated with key .
Displaying of logos means than a calibration has been performed.

Important note:

⊙ A large temperature deviation may indicate an inappropriate installation of the thermostat. If the temperature difference is too big, this could mean your thermostat was not installed properly e.g. in the right place.

⊙ If user press keys  and  simultaneously, current offset value is displayed on LCD:



⊙ Open window function should not be triggered in any cases if user changes offset value. This function will be restarted after user validation.

Calibration of external room sensor

This menu is only displayed if parameter rEG (#20) is set with "Air" or "Fil". Calibration must be done after a given order has been operating for a day. Place the thermometer in the middle of the room at about 1.5 m above the floor. Record the temperature shown after 1 hour.

Enter the reading on your thermometer turning button  (step of 0.1°C).



Default value:
offset of 0°C

Values:
between -5.0°C and 5.0°C



The setting is validated with key . Displaying of logos means than a calibration has been performed.

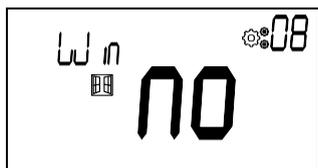
Important note:

- ⊙ A large temperature deviation may indicate an inappropriate installation of the thermostat. If the temperature difference is too big, this could mean your thermostat was not installed properly e.g. in the right place.
- ⊙ If user press keys  and  simultaneously, current offset value is displayed on LCD:



- ⊙ Open window function should not be triggered in any cases if user changes offset value. This function will be restarted after user validation.

WIN - Open window detection



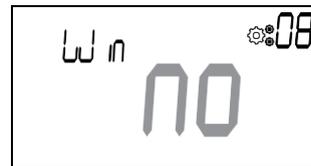
Default value: no

Values: Yes /no

- ⊙ "Yes": activation of function



- ⊙ "no": no activation



More information is in paragraph "Opened window detection"

SMAR – Smart scheduled temperature (adaptive start heating in AUTO mode)



Default value: Yes

Values: Yes / no

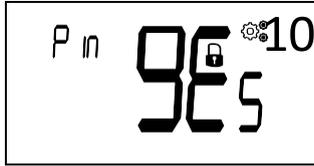
- ⊙ "Yes": activation of function



- ⊙ "no": no activation



PIN code activation



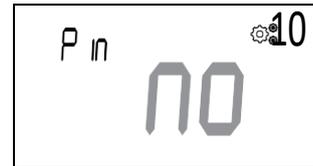
Default value: Yes

Values: Yes / no

⊙ “Yes”: activation of function

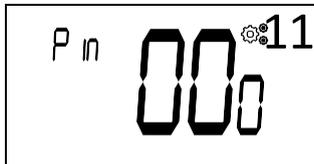


⊙ “no”: no activation



More information is in paragraph “PIN code”

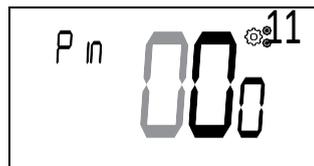
Setting value for PIN code



Default value: 000

Values: 000 to 999

User must configure values of the three digits with rotator button  and validate its choice with  key.



Reset user settings

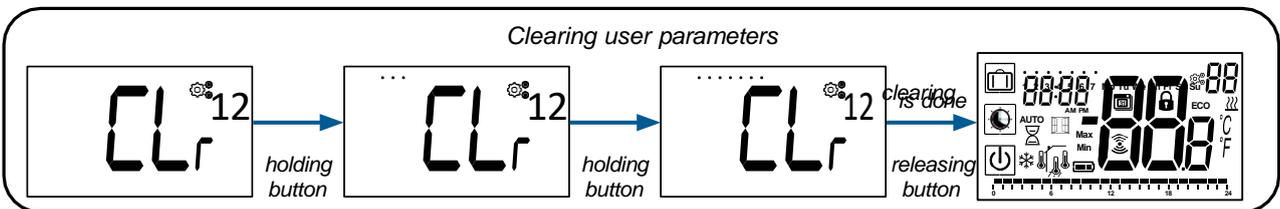


Press and hold  for 5 seconds to reset, all segments light up, showing that the thermostat has been reset with the factory default setting:

⊙ Set point temperatures in       modes,

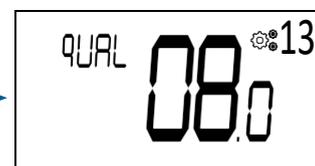
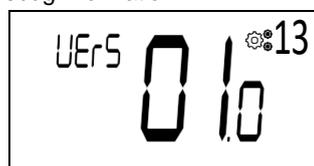
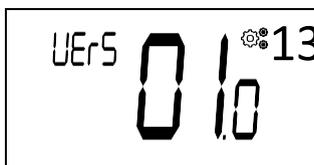
⊙ All user parameters with their factory values.

When button is hold:

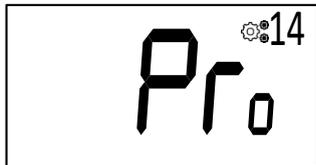


Displaying client software version

Pressing and maintaining key  displays software qualification version and debug information.

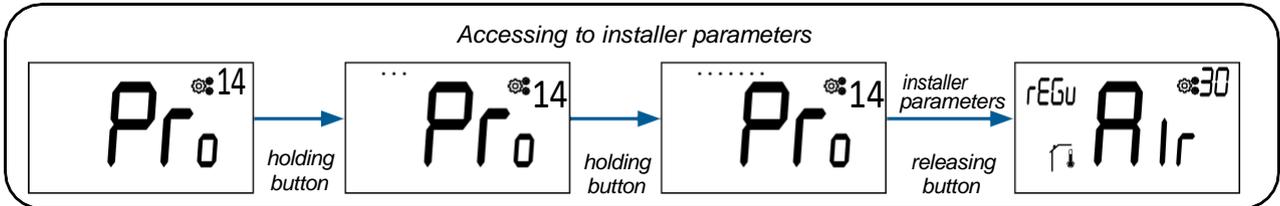


Reminder: software version is written: Vxx.xx.



Professional/installer menu

This menu permits to access to installer parameter menus. Pressing and maintaining key  displays first parameter of installer menus. When button is hold:

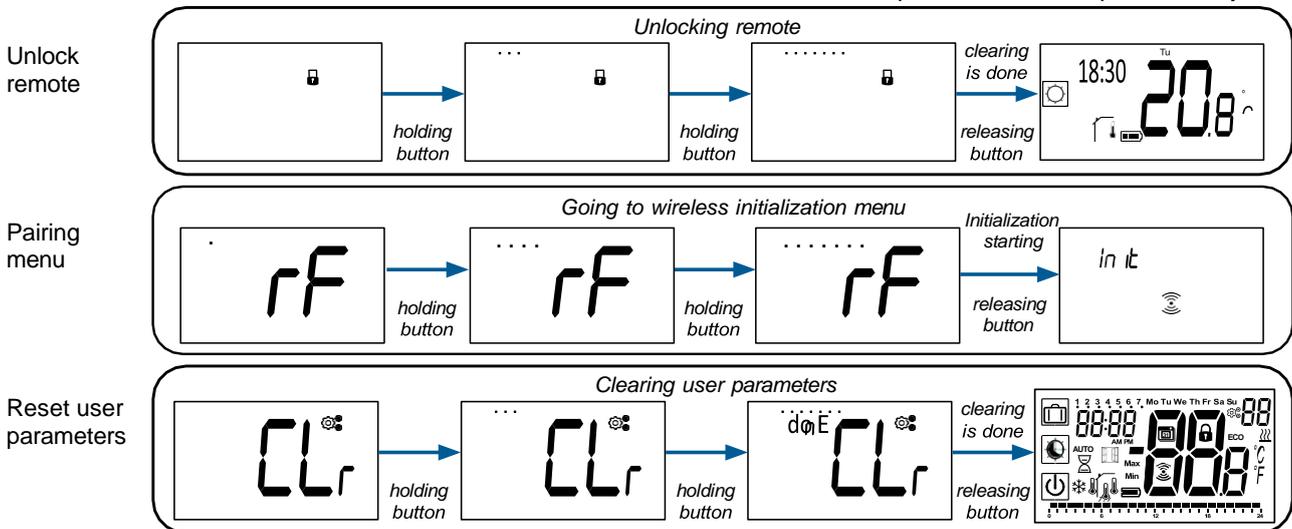


User menu exit

Press key  to exit user menu and return to the main screen.

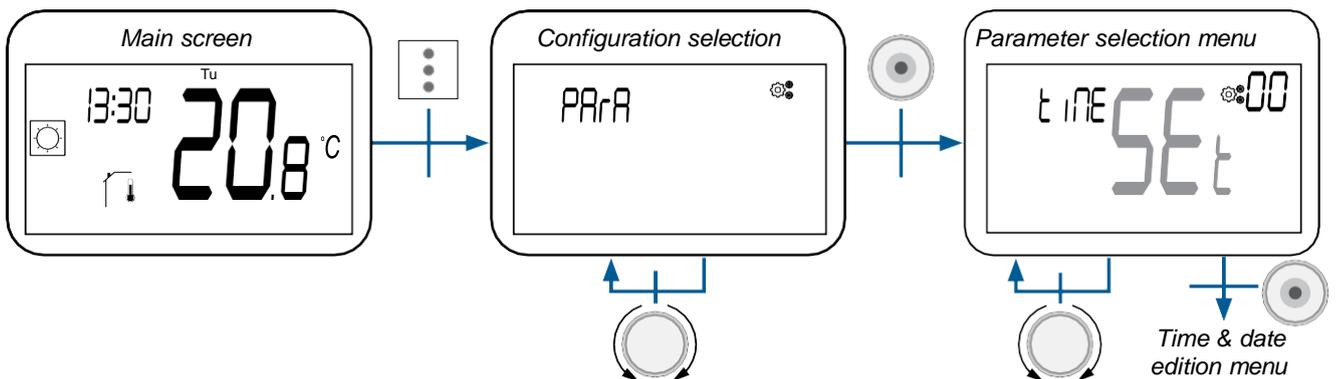
16. Reset key menus

By holding the button on the back of remote, user can:
 Ⓞ Unlock remote,
 Ⓞ Go directly to pairing menu,
 Ⓞ Rest thermostat with user parameter value equal to factory setting.



17. Time and date edition menu

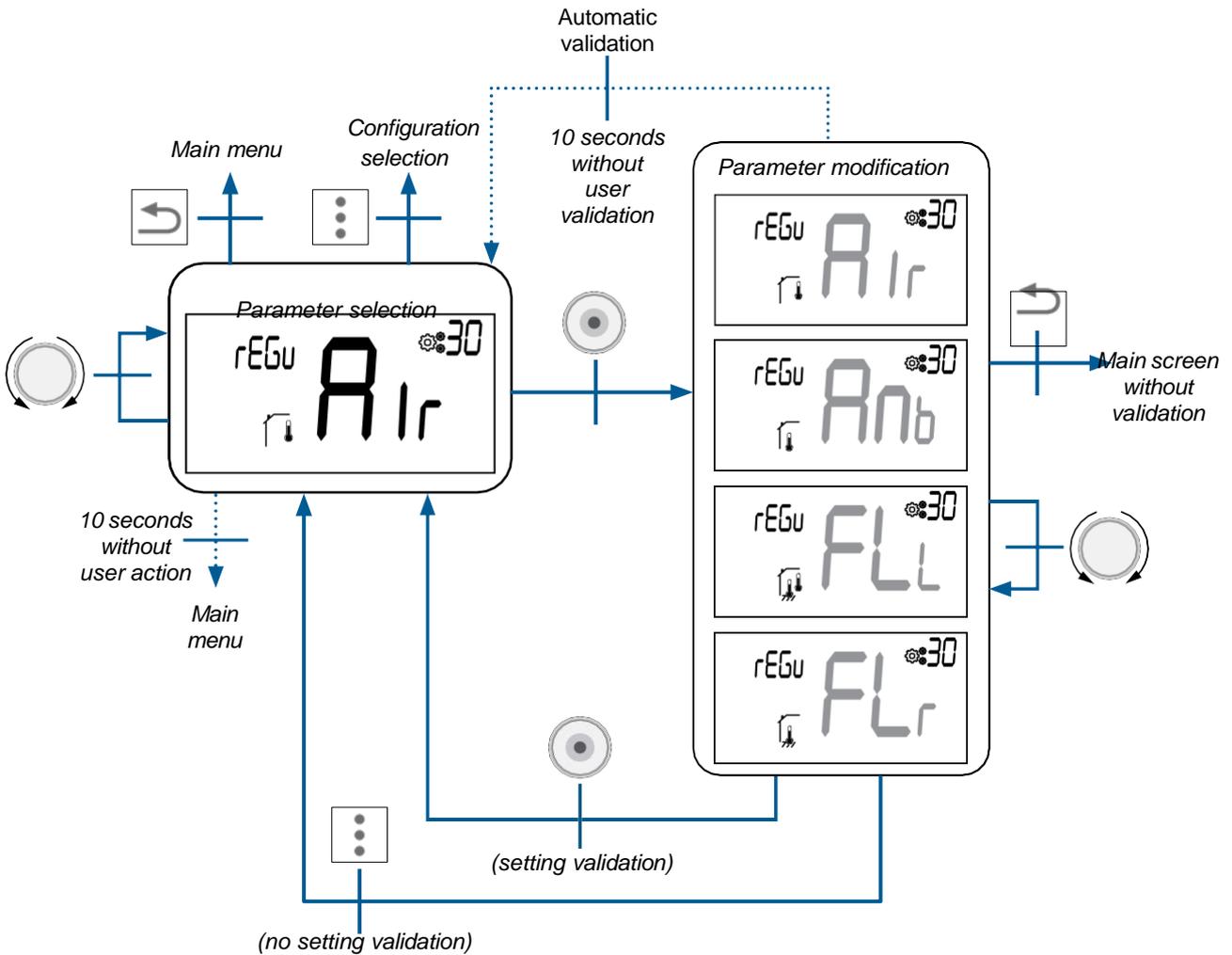
How to access to time and date edition menu



18. Installer parameter description

18.1 Professional parameter selection menu

The menu scroll is done with rotator button . Menu is selected by pressing key . Once in the menu, the parameter value is changed by turning rotator button . Pressing again key  sets the parameter value.

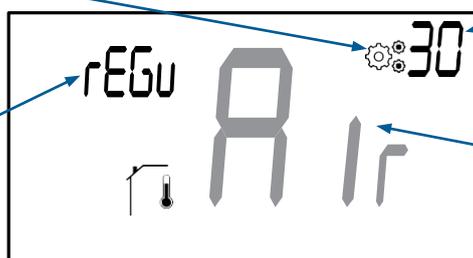


18.2 Information displaying on LCD screen

Logo blinking means modification of parameter value

Parameter number

Parameter name



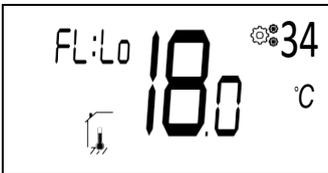
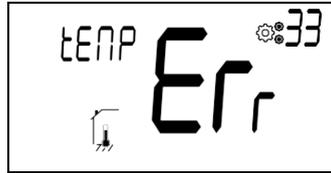
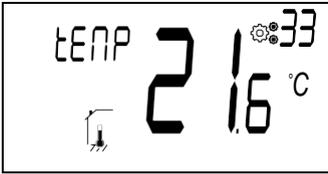
Parameter value (blinking)

18.3 Professional parameter description

	<p>Selecting temperature sensor used for the regulation</p>
<p>Default value: Air</p> <p>Values: Air / Amb / FLL / FLR EMB</p>	<p>“AIR”: Regulation with internal sensor</p>
	<p>“Amb”: Regulation with external sensor</p>
	<p>“FLR/EMB”: Regulation on floor sensor (external sensor of remote, only when remote is connected to master) or embedded sensor on receiver</p>
	<p>“FLL”: Regulation with floor sensor and air sensor</p>
	<p>Displaying of measured temperature by internal sensor</p>
	<p>If “Err” is displayed, internal sensor is damaged:</p>
	<p>Displaying of measured temperature by external sensor</p>
	<ul style="list-style-type: none"> ⊙ FLOOR temperature if remote is paired to a connecting box; ⊙ FLOOR temperature if parameter 30 is set to “floor” or “floor limit”; ⊙ AMBIENT temperature if parameter 30 is set to “ambient”.
	<p>If “Err” is displayed, external/ambient sensor isn’t connected or damaged:</p>

Displaying of **measured temperature by floor sensor connected to receiver**
(only with central unit product)

If "Err" is displayed, thermostat isn't associated to a received with floor sensor or this sensor is damaged:

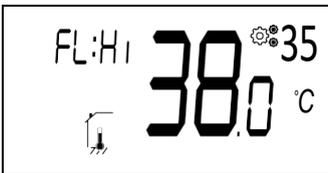
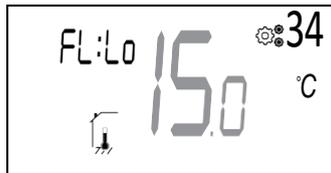


Lower limit of floor temperature (FL:Lo)

This value is displayed and set only if parameter #30 is FLL.

Default value:
"no": not activated

Values:
5°C to ("FL.H"-0.5°C)

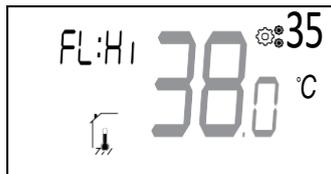


High limitation of floor temperature (FL:Hi)

This value is displayed and set when parameter #30 is set on FLL.

Default value:
"no": not activated

Values:
("FL.Lo"+0.5°C) to 40°C



Regulation type

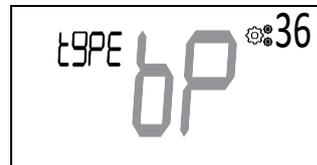


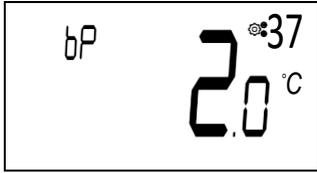
Default value: HYS

Values: HYS / bP

⊙ "HYS": regulation of hysteresis

⊙ "bP": regulation of proportional type





Default value: 2°C

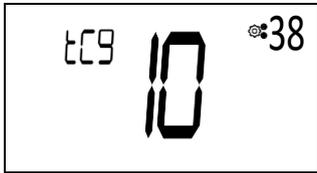
Values:
between 2°C and 5°C

Proportional Band

This menu is displayed only if parameter "Typ" is equal to "bP".

Use turning button  to set proportional band value (see paragraph "Proportional band method" for explanations).

The setting is validated with  key.



Default value: 10 minutes

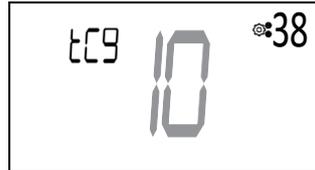
Values: [10 15 30 45 60]

Cycle time setting

This menu is displayed only if parameter "tYPE" #38 is equal to "bP".

Use turning button  to set cycle time value.

The setting is validated with  key.



Default value: 0.5°C

Values:
between 0.2°C and 3°C

Hysteresis value

This menu is displayed only if parameter "tYPE" #38 is equal to "hys".

Use turning button , installer sets hysteresis value. The setting is validated with  key.



Default value: no

Values: no / Yes

Function of pilot wire

This option is used to enable the pilot wire functionality if it's used on your installation.

"Yes": activation of function

"no": no activation





Default value: 5.0°C

Values:
between 5.0°C and 15.0°C

Minimum value of setting range of the set point temperature

Use turning button  to set temperature value. The setting is validated with  key.



Default value: 30°C

Values:
between 20°C and 35°C

Room temperature limitation

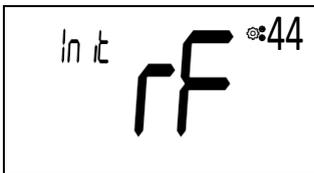
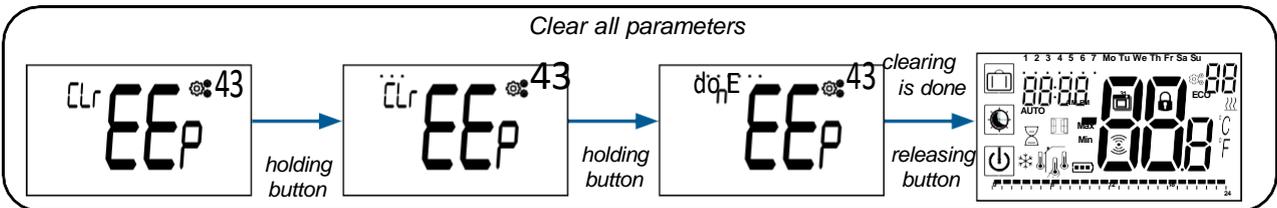
Limitation of the maximum room temperature that will be possible to set with remote.

Use turning button  to set temperature value. The setting is validated with  key.



EEPROM clearing

All thermostat parameters will be loaded with factory settings. RF wireless communication will be reset too. Pressing and maintaining key  displays :



RF pairing activation

Pressing the key  starts communication initialization:



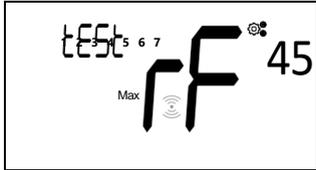
Another press of key  will exit this mode.

RF power signal observation

Screen description:

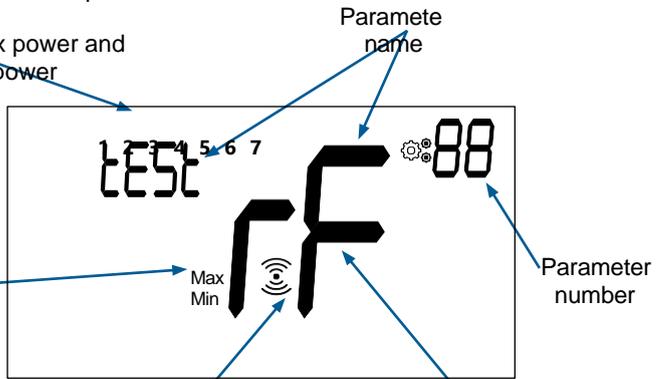
Signal power description with number:

r “7” for max power and
“1” for min power



Default value: 30°C

Values:
between 20°C to 35°C



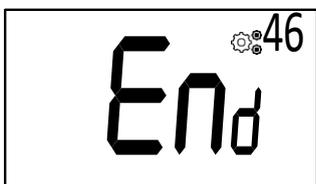
Blinking of RF logo means that product done communicates

If parameter name is blinking, it means that transmission isn't (no received signal)

Measurement description:

IMPORTANT NOTE: This menu appears if a pairing has been done.

RF signal strength	LCD screen
Max	
“Normal”	
“Weak”	
Min	
No signal	



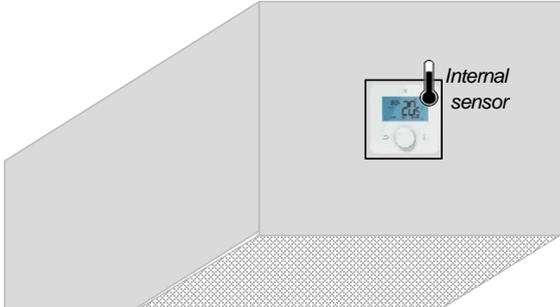
User menu exit

Press key to exit installer menu and to return to the main screen.

19. Sensor installation for each regulation configuration

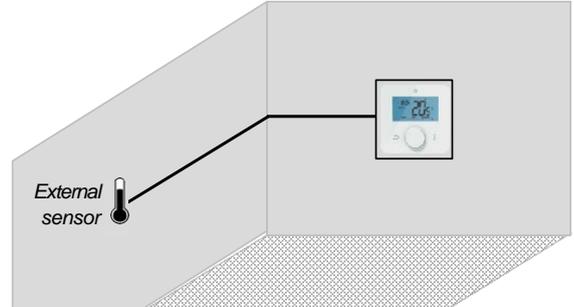
a. Air regulation

Internal sensor embedded in thermostat



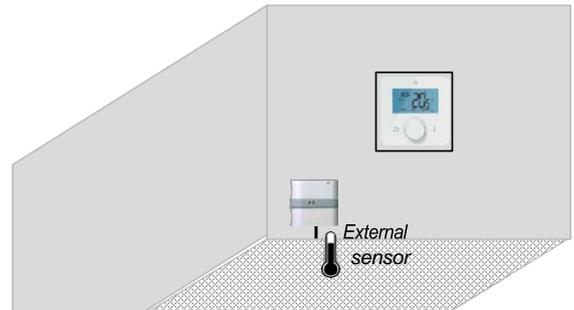
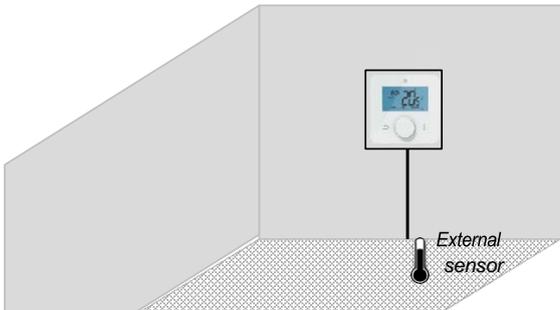
b. Ambient regulation

External sensor connected to thermostat back



c. Floor regulation

External sensor connected to thermostat back



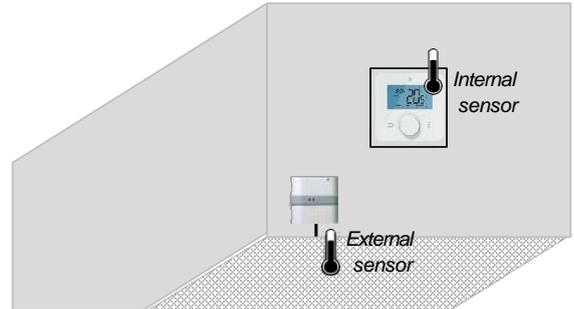
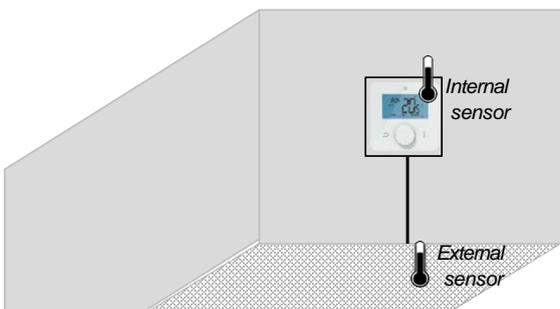
Note: With the V23 receiver, the floor sensor must be connected to the receiver. The sensor connected to the back of the thermostat cannot be used as a floor sensor with this product.

With the V24 product, the sensor must also be embedded on the V23 receiver.

The external sensor of the thermostat can be used as a floor sensor with the V26 and the V25.

d. Floor limit regulation and air regulation

Internal sensor embedded in thermostat
External sensor connected to thermostat back



Note: With the V23 receiver, the floor sensor must be connected to the receiver. The sensor connected to the back of the thermostat cannot be used as a floor sensor with this product.

With the V24 product, the sensor must also be embedded on the V23 receiver.

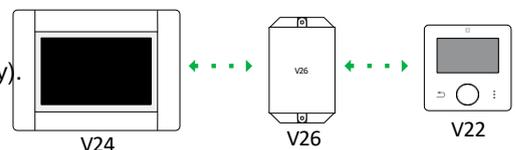
The external sensor of the thermostat can be used as a floor sensor with the V26 and the V25.

20. V24 (Smart home) compatibility

A V22 can't be paired with a V24 directly. A V22 must be paired with a V26/V25/V23 then the V26/V25/V23 can be paired with V24 (see picture below).

Like the old V22, when operating with V24 the V22 have some limitations:

- mode selection on V22 no longer possible (change of mode on V24 only).
- in manual mode the setpoint can be set by the V22.

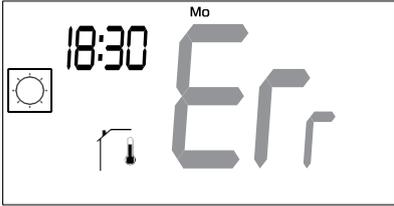
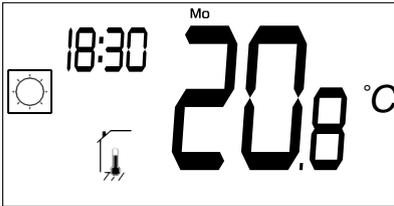
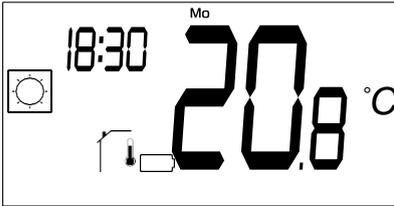
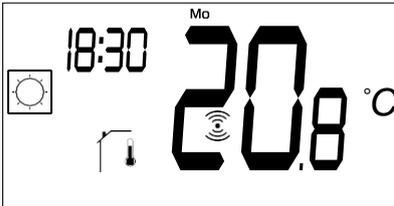


21. Troubleshooting & solutions

Description of thermostat errors displaying

Thermostat errors are:

- ⊙ Error of temperature measurement
 - Internal sensor;
 - External sensor. If this sensor is broken, remote carries on to work with internal sensor.
- ⊙ Low batteries
- ⊙ Loss of RF communication (only when thermostat is associated to central unit or to connecting box product).

Internal sensor error		Displaying of "Err" and 
External sensor / Pipe sensor / Receiver sensor		Internal sensor temperature is displayed and used for regulation.
Low batteries		Backlight ON: Icon blinking 
RF error (only when remote is associated to central unit or master product)		Icon blinking 

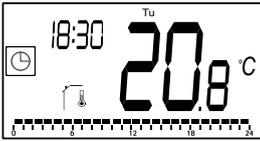
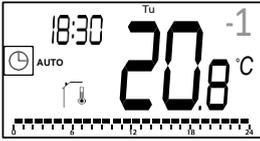
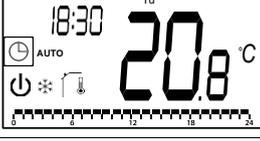
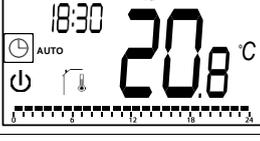
22. Pilot Wire

Condition for pilot wire application.

Heating system can be able to read pilot wire orders when this information is brought by a V23, with or without a V24. The application of pilot wire order is only done when the system is in heating configuration.

Pilot wire order displaying.

When thermostat receives a pilot wired order, logo **AUTO** is blinking. Order type is displayed as presented below:

Pilot wire order	Screen example
Comfort (no order)	
Comfort -1°	
Comfort -2°	
Reduced/ECO (Comfort -3.5°)	
Antifreeze	
Stop	

23. Maintenance

Battery level indication

The batteries are considered weak when voltage level is too low for a correct product functioning. The icon  will blink on LCD screen.

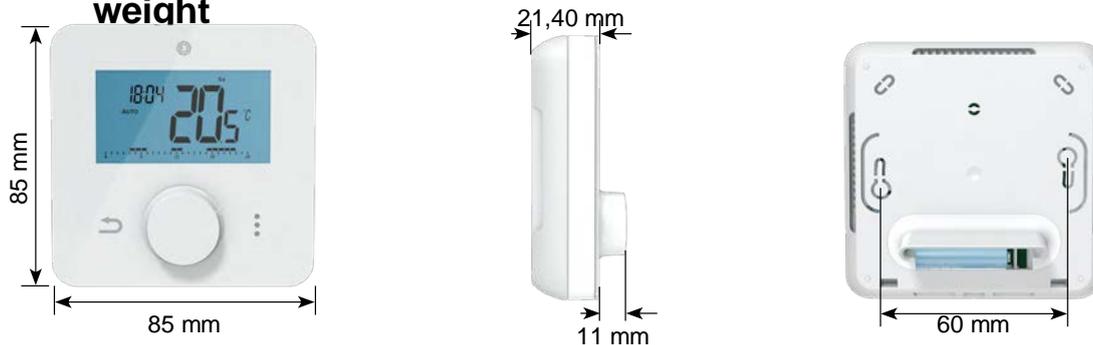
Cleaning of the thermostat

Gently dust the outside of the thermostat with a soft, lint-free cloth. If the thermostat needs a more thorough cleaning:

- Lightly dampen a soft and clean cloth with water.
- Wring out any excess water from the cloth.
- Gently wipe the display and sides of the thermostat, making sure no drops of water accumulate around the product.

Important: Do not spray thermostat directly with water, or use cleaning solutions or polishes, as doing so may damage the thermostat.

25.1 Dimensions & weight



Weight: 115g (thermostat only) - all including box
220g

26. Directives

Type	Description	Website link
Low voltage (LVD) – Directive 2014/35/EU	Automatic electrical controls for household and similar use - Part 1: General requirements	2014/35/UE
	Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls	
	Electromagnetic compatibility - Requirements for household appliances,	
Electromagnetic compatibility (EMC) – Directive 2014/30/EU	electric tools and similar apparatus - Part 1: Emission	2014/30/UE
	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
Radio equipment – Directive 2014/53/EU	Amendments – EMC – Information technology equipment – Immunity characteristics – limits and methods of measurement	2014/53/EU
	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services – Part 3: Specific conditions for Short-Range Devices (SRD)	2012/19/EU
	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services – Part 1: Common technical requirements	
	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 Mw ;	
	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency - part 2	
Restriction of the use of certain hazardous substances (RoHS) - Directive 2011/65/EU	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	2011/65/UE