BT-DP03 HC FC

Digital programmable room thermostat with integrated relay Vision® Wired

Installation and operational manual

EN **Installation and Operation Manual**

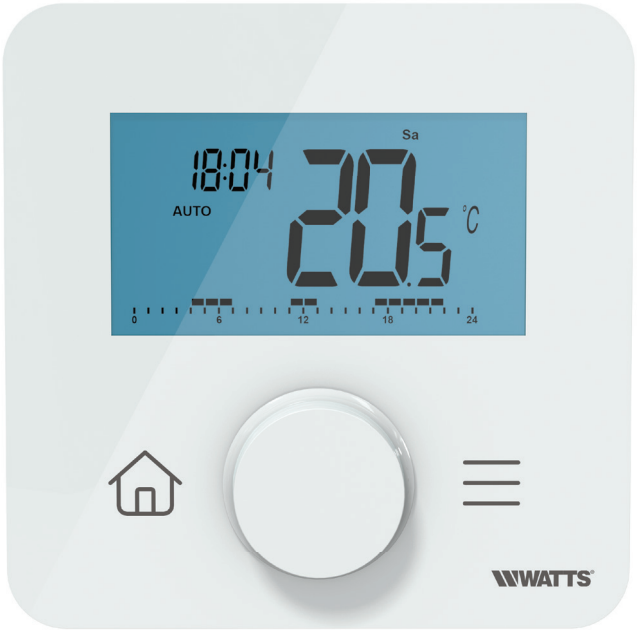

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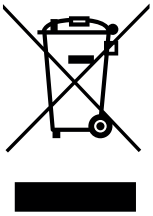
Table of content

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 disas- sembled. Replace all used batteries at the same time. Do not carry bat- teries loose in your pocket or purse. Do not remove the battery label. Keep batteries away from children. If swal- lowed, 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 bat- tery 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.

Please refer to « Quick Installation Guide » for thermostat installation

Symboles using on this manual:

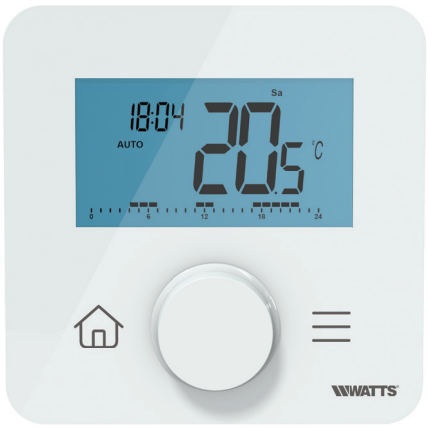
Press key (on rotary button)

Minus rotation button

Plus rotation button

Home key

Menu key

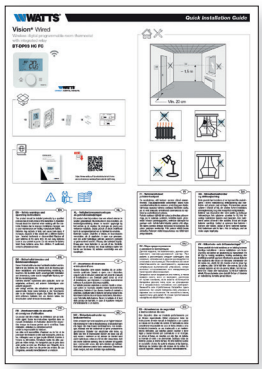


1. Presentation

- Programmable thermostat compatible with WATTS Vision® system
- 2 sensitive touch buttons + 1 rotary push-button
- Heat and Cool
- Different temperature program' settings
- Open window detection
- Anti freeze function
- PIN code for public area
- EEPROM non volatile memory
- Wall mounting
- 2 parameter menus: User and Installer

2. Box contents

1 x

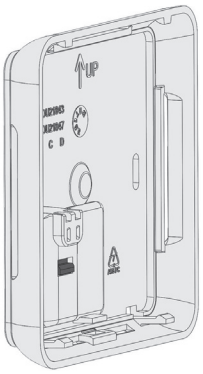


Quick Installation Guide

1 x

WATTS Vision® thermostat

1 x

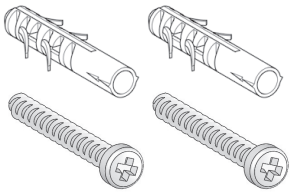


Back cover and stand for table standing

1 x

AAA type batteries

1 x



Fixing screws

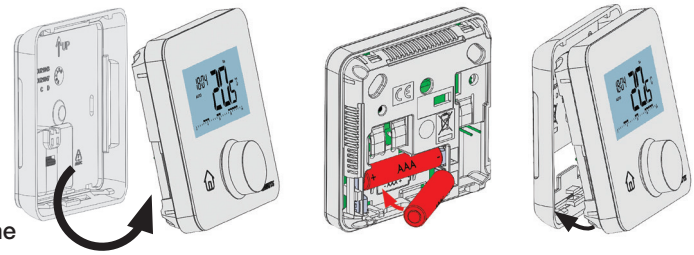
3. First Installation

See Quick Installation Guide for installation.

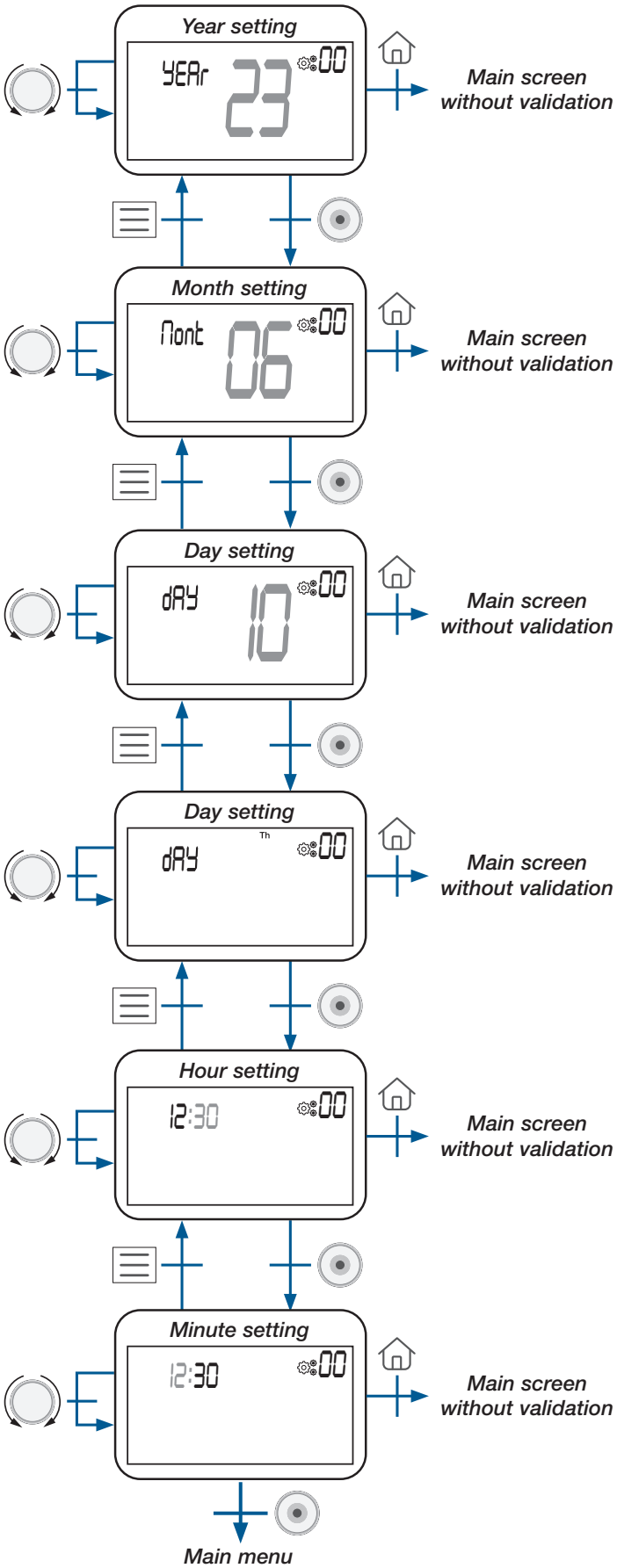
3.1 Batteries installation

- 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.



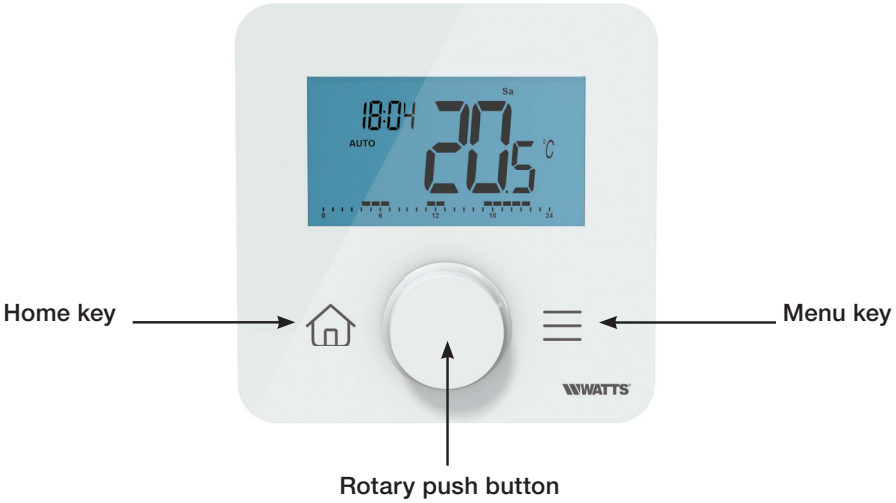
3.2 Description of time and date edition menu



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:



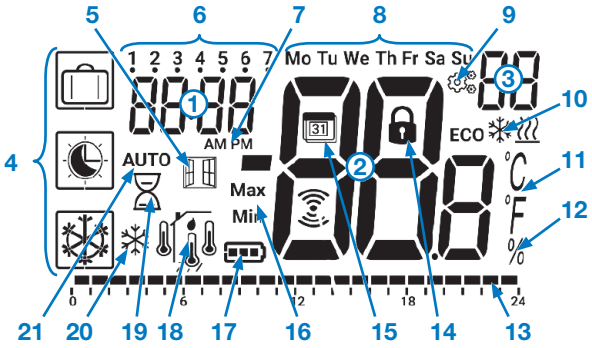
Rotary/push button description:

- 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
- 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

4.2 LCD logo description



1. 88:88 Clock / remaining time for boost mode

2. -88.8 Measured temperature/ temperature set point

3. 88 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
   and Cooling mode (if it's allowed).

5. Open window function

6. 1 2 3 4 5 6 7 Day number

7. **AM PM** Time format

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

9. Parameter menu

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

11. °C °F : Temperature units: °C : Celcius
    °F : Fahrenheit

12. % Measurement of humidity rate

13. 0 61 21 82 4 Bar graph

14. Locked keyboard

15. Edit date

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

17. Battery level

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

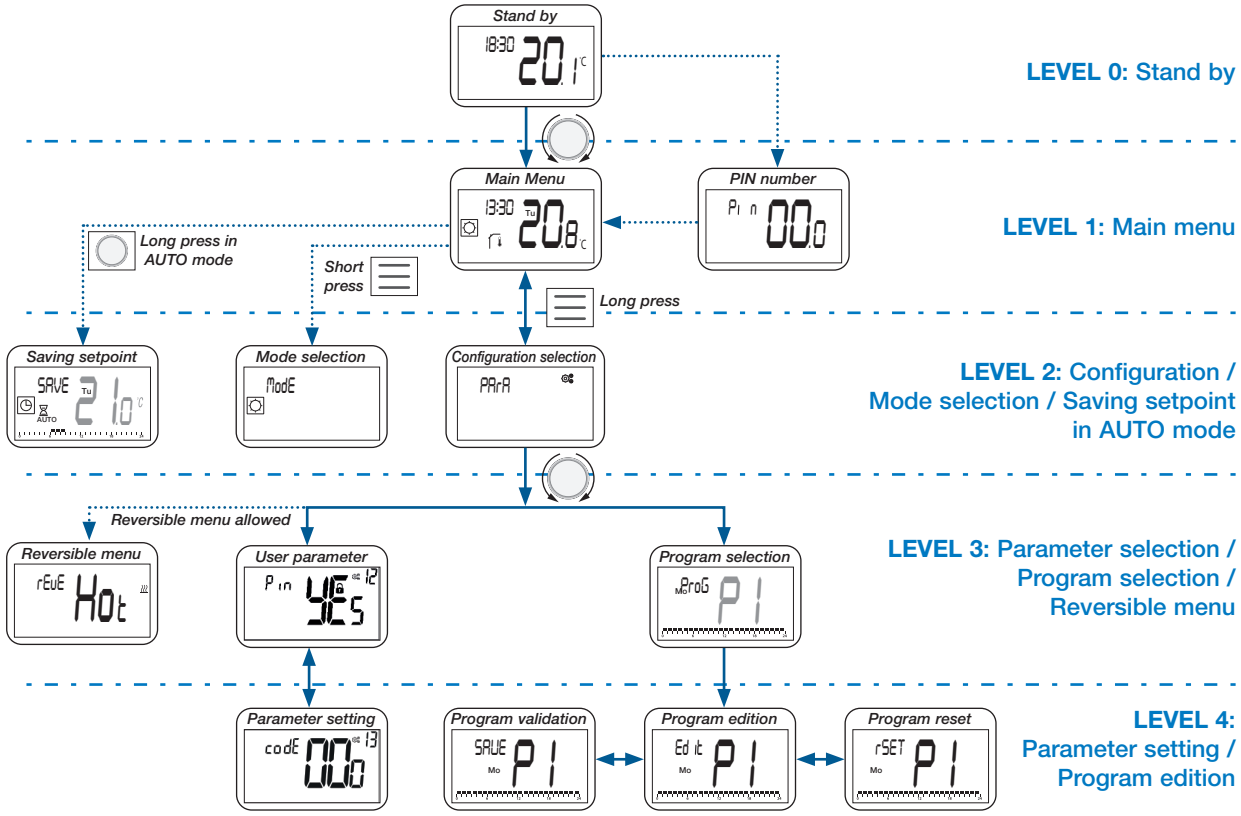
19. Derogation or boost activation/running

20. With stop logo, it means antifreeze mode

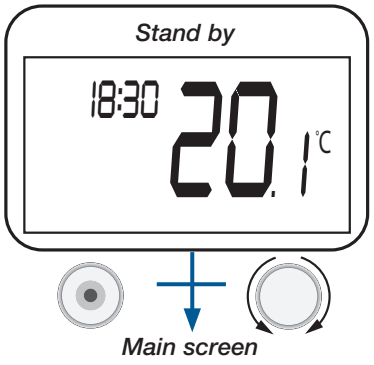
21. **AUTO** Auto mode is activated.
    With reduced/ECO logo **ECO**, it means reduced set point temperature in auto mode.
    In other configuration, set point temperature defined by user is applied in auto mode

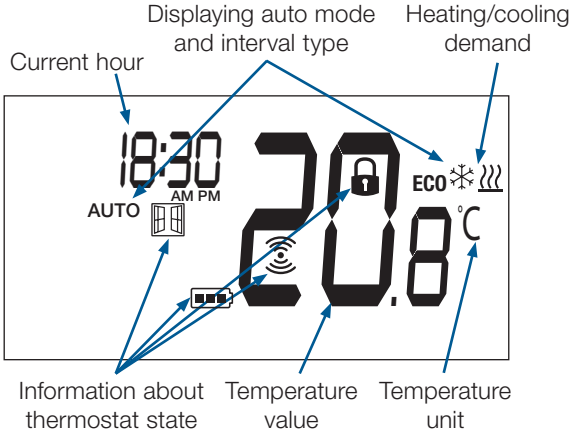
5. Mode selection

5.1 Architecture of menus



5.2 Standby screen description



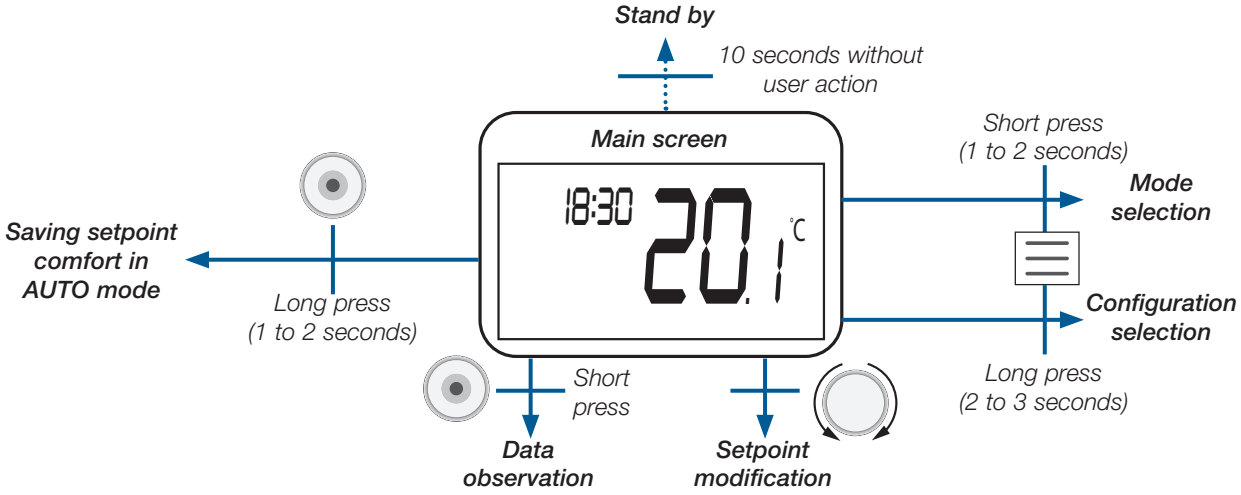


On this screen, you can have other information:

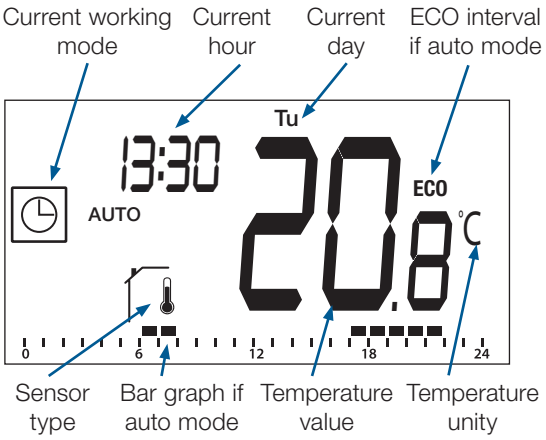
- Activation of opened window detection;
- Locked thermostat or locked keyboard;
- Sensor error;
- Battery error;
- **ECO** to indicate reduced temperature set point in AUTO mode;
- **AUTO** to indicate "AUTO" mode;
- Heating/cooling demand or state depending on receiver paired with thermostat or .

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:

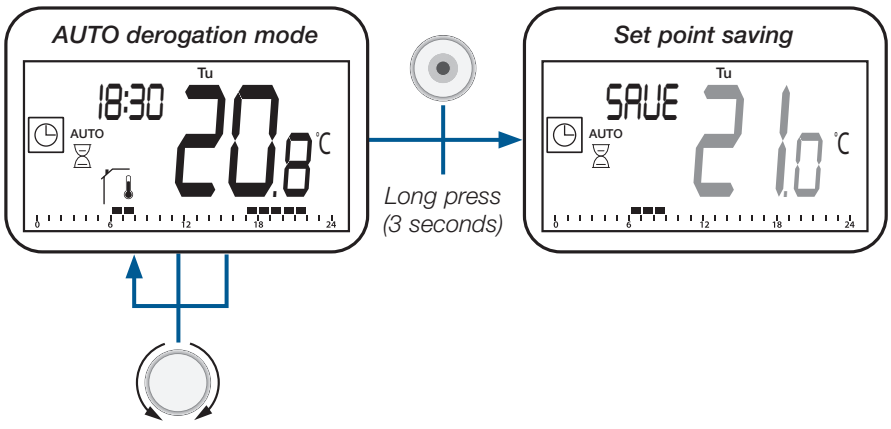


On this screen, you can have other information:

- Activation of opened window detection;
- Bar graph 0 61 21 82 4 when working mode is Auto mode **AUTO** and;
- If user press home button, battery level will be displayed;
- Heating/cooling demand or .

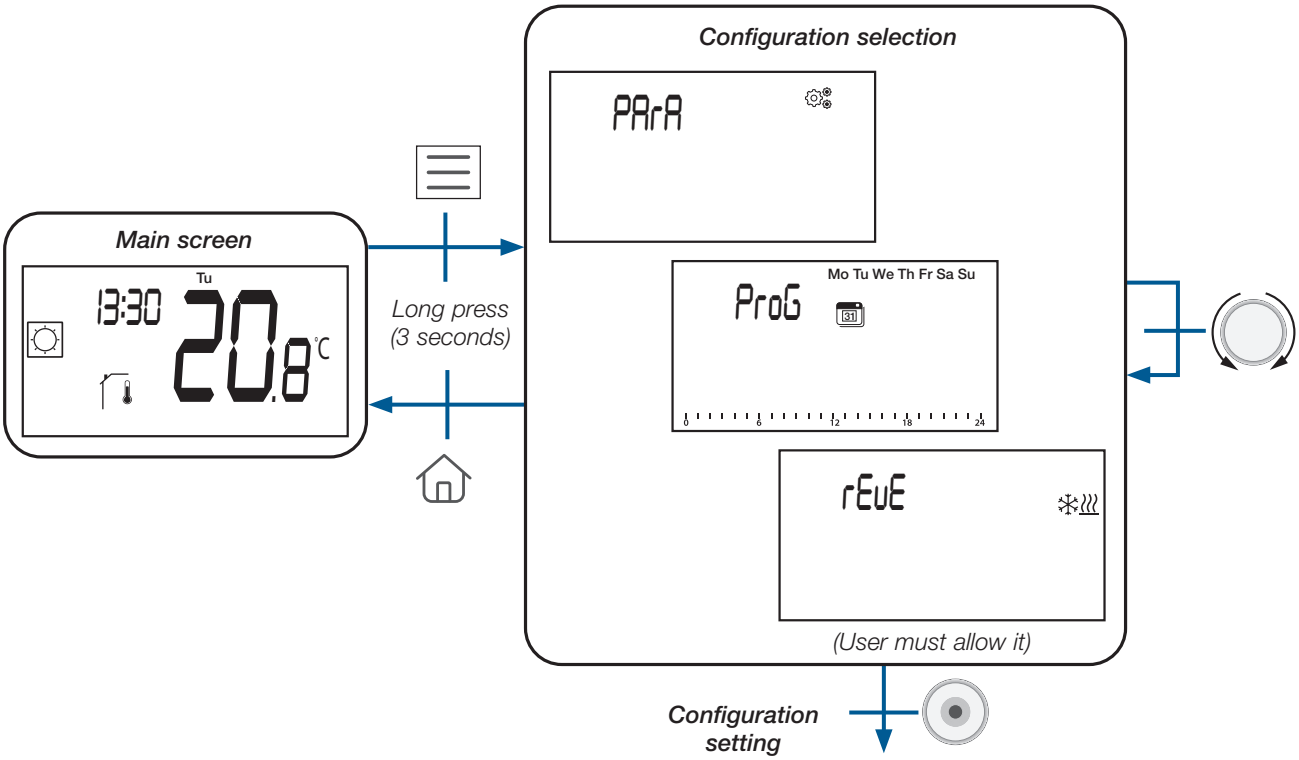
5.4 Saving of temperature set point in AUTO mode

The thermostat is configured in Auto mode (**AUTO** and) and a derogation of temperature set point is launched.

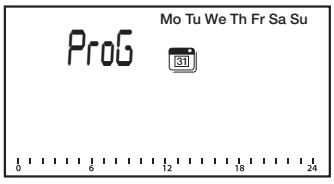


5.5 Selection of configuration menu

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



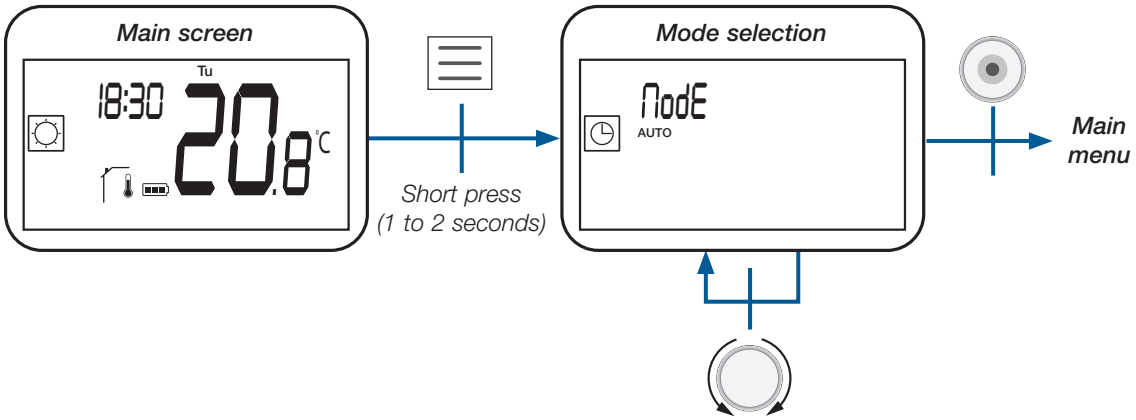
There are two different configuration menus, three if reversible menu is allowed (see paragraph “Reversible menu”):

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”).
	User parameter selection	User will go to menu to select thermostat parameter to set (see paragraph “User parameter selection menu”.)
	Reversible menu	User will go to this menu to change system configuration: heating, cooling, or automatic H&C switching (see chapter “Reversible menu page 23”). User will have to activate this menu with a specific parameter (see paragraph “User parameter description”). Reversible menu is described in paragraph “reversible menu”.

5.6 Mode selection menu

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

a. How to access to mode selection menu



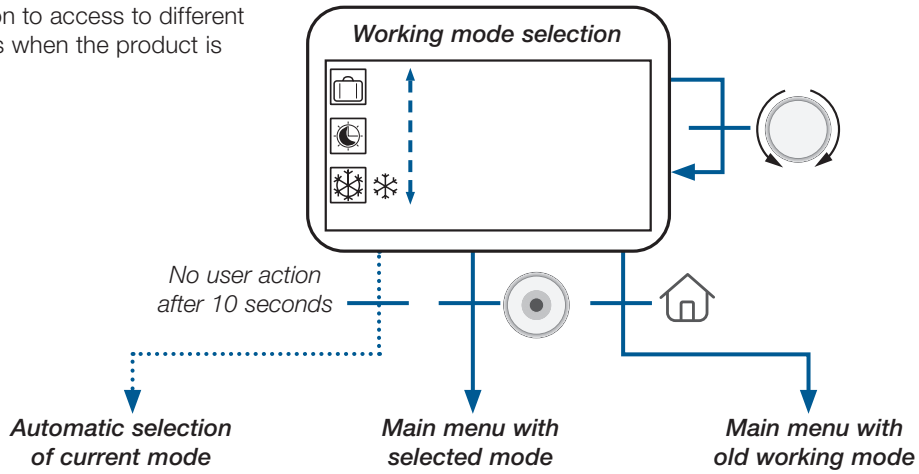
b. Working mode list

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 reversible or heating configuration are selected (see paragraph “User parameter description”)
	Eco/Reduced mode
	Anti-freeze mode
	Off mode
	Cooling mode if reversible or cooling configuration are selected (see paragraph “User parameter description”)

c. Description of mode selection menu

Figure below shows navigation to access to different modes and parameter menus when the product is on (backlight is switched on):



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

System configuration	Working mode list
Classical	
with “reversible mode”	
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 or , automatic selection keeps current selected mode ;

➤ If current selected mode is holiday mode or timer/derogation , the thermostat returns automatically to the old mode or or or or .

d. Working mode description

Pressing key has an action with respect of the key:

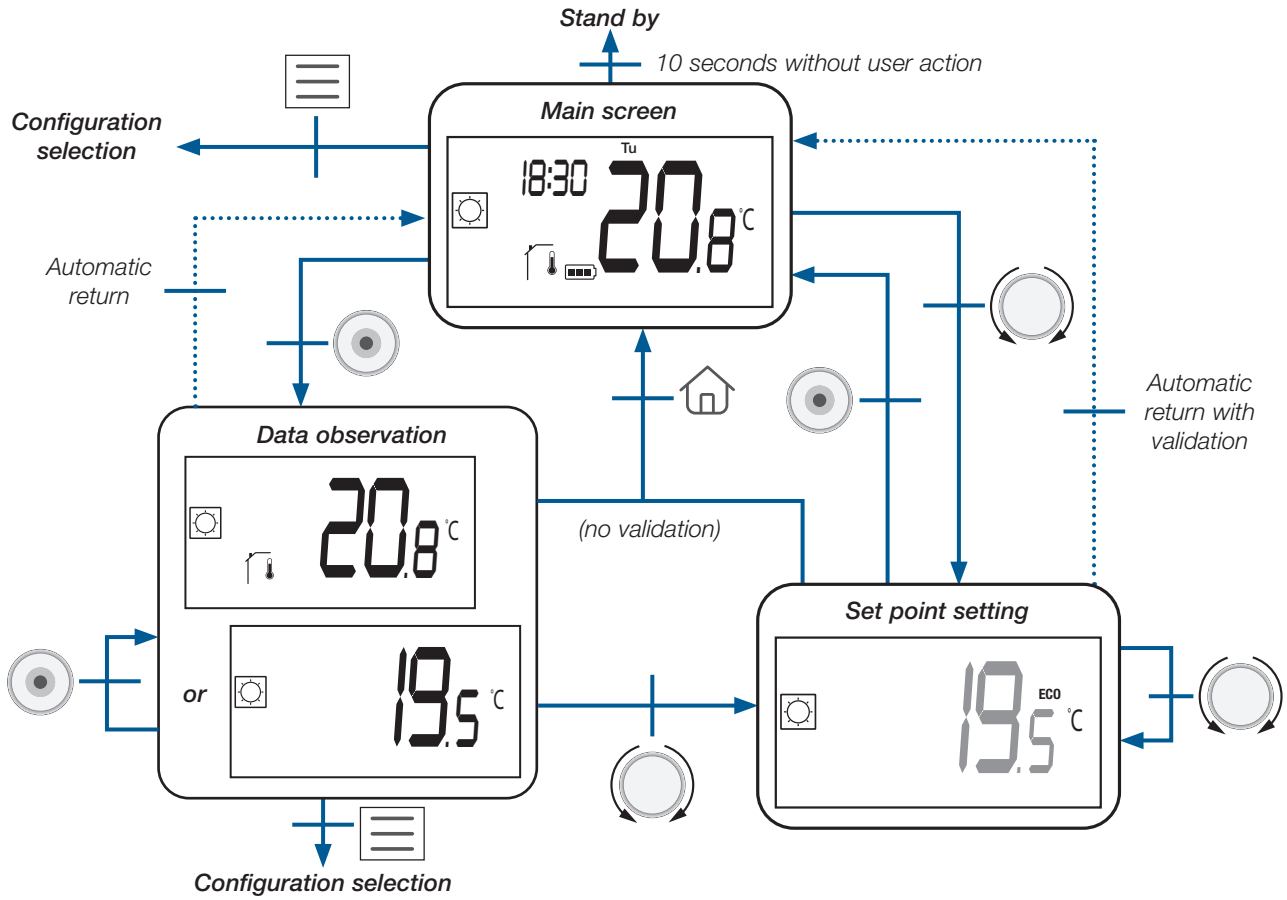
➤ permits to change set point temperature;

➤ 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;

➤ 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”).

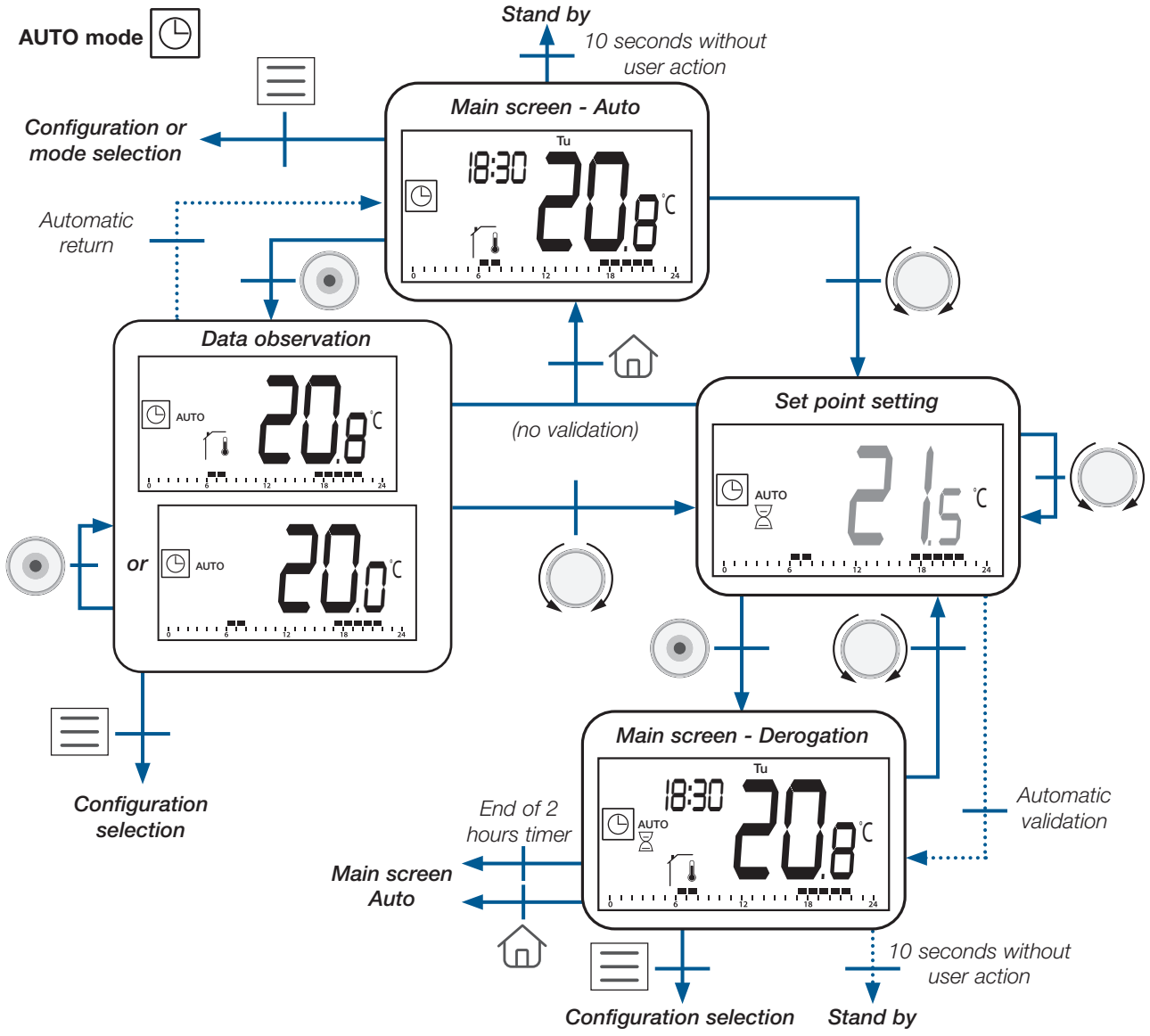
➤ permits to return directly to main menu without setting validation.

Comfort mode / Reduced mode / Anti-freeze mode / Cooling mode /
Automatic H&C (Heat & Cool) mode & menu description (confort mode is shown below as example.
The structure of the menu is the same for both comfort, reduced, anti-freeze, cooling, and automatic Heat & Cool modes).



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, set point temperature and humidity rate 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
Cooling mode	25°C	10.0°C to 30°C
Automatic Heat & Cool mode	21°C	10.0°C to 30°C



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

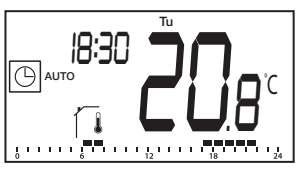
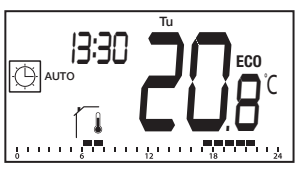
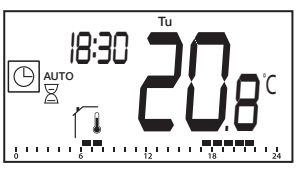
By turning button , derogation mode is selected (cf. paragraph “Derogation in Auto mode”).

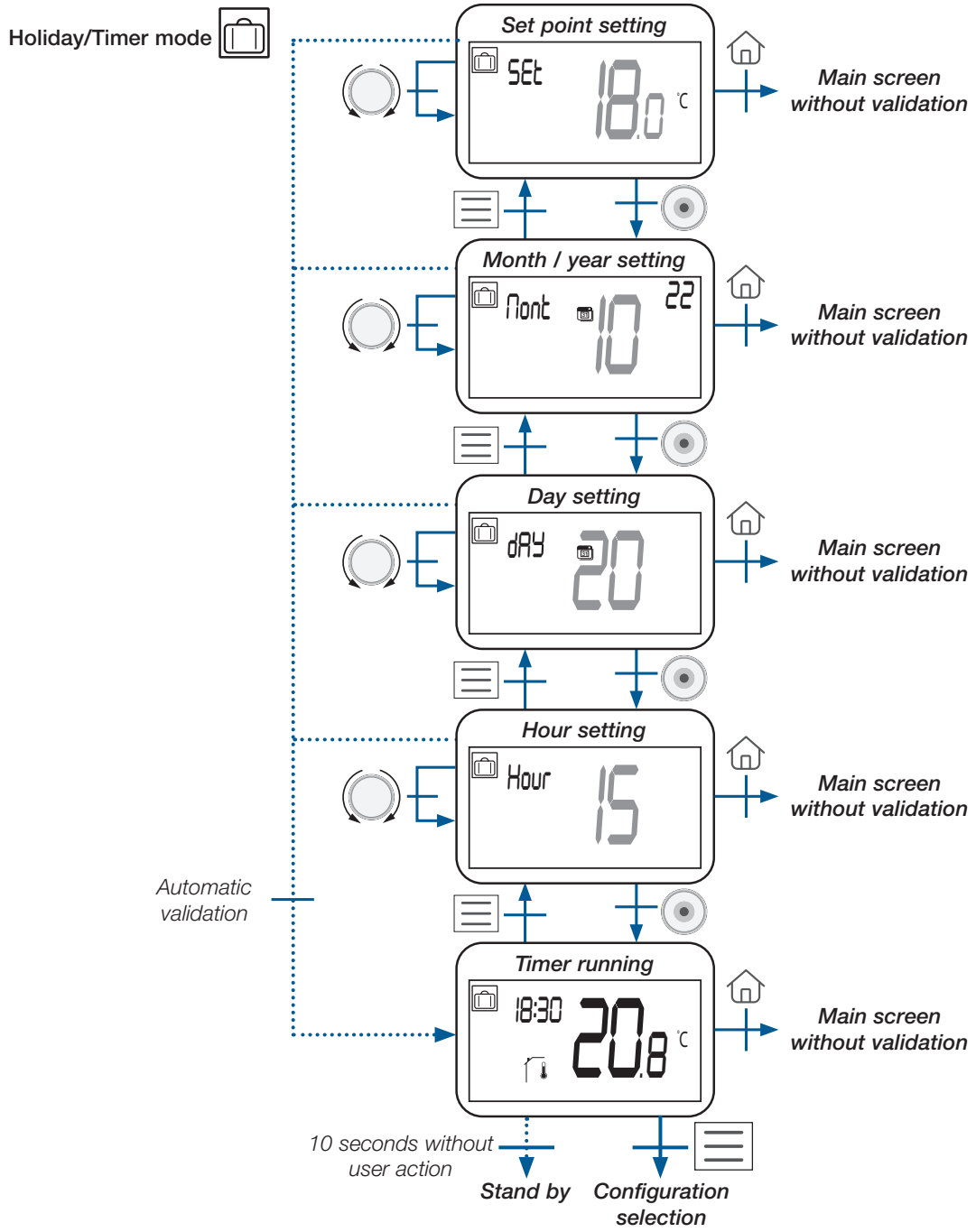
From the main screen, by pressing key, mode selection menu or configuration selection menu is displayed.

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, set point temperature and humidity rate are displayed alternatively.

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

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.

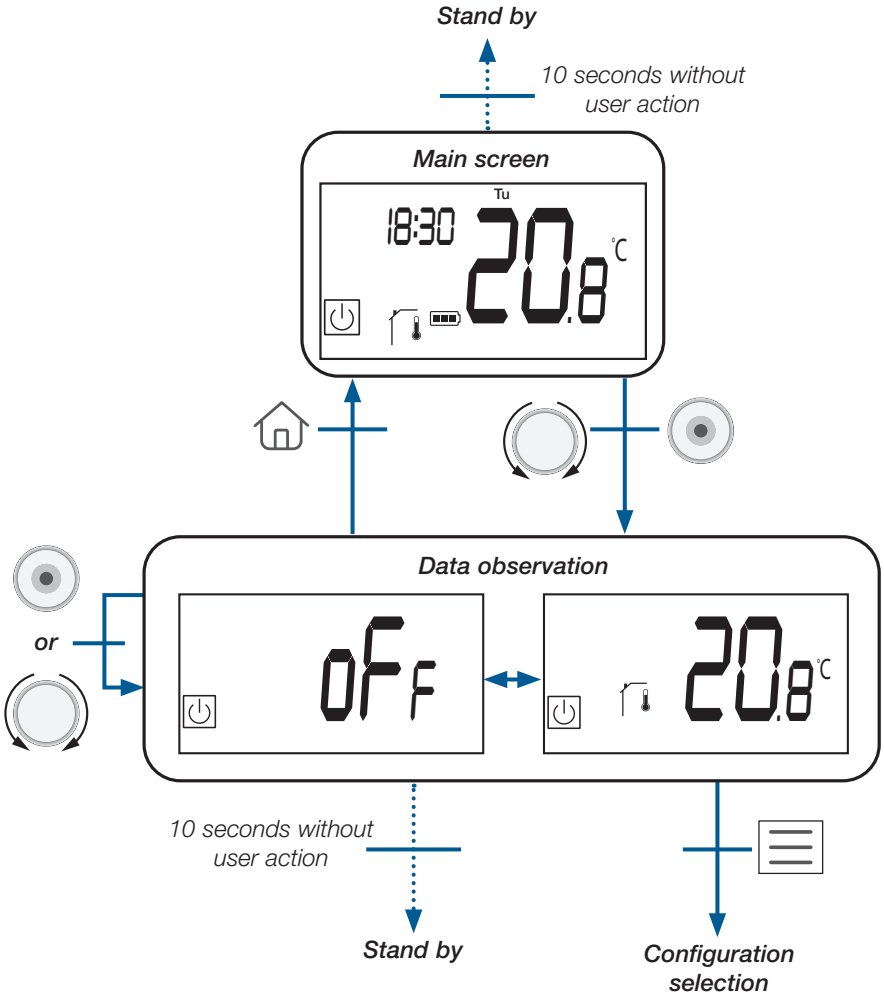
From the main screen, by pressing key, configuration selection menu is displayed.

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

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

Default value	Range
7°C	0.5°C to 19°C

Off mode



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

From the main screen, by pressing or turning rotator button or , temperature 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.

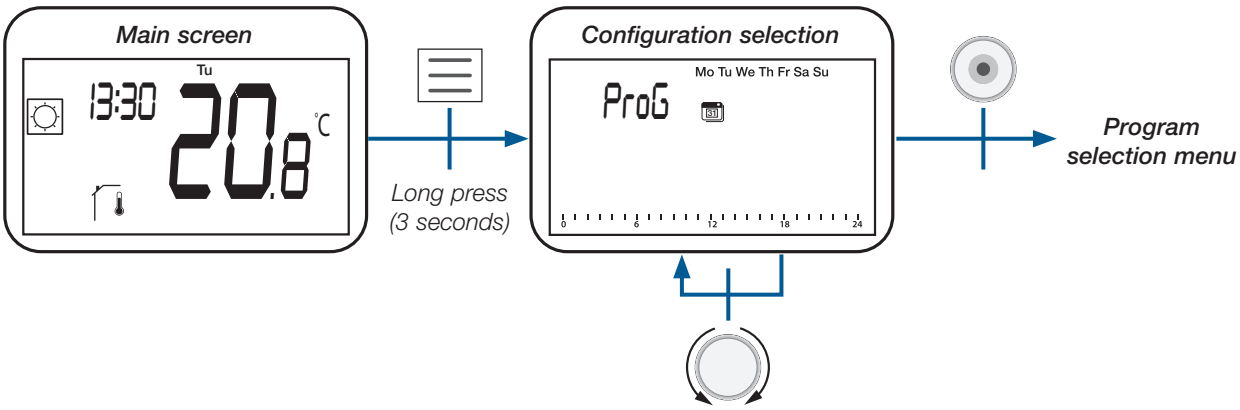
From the main screen, by pressing button, measure temperature, set point temperature are displayed alternatively.

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

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

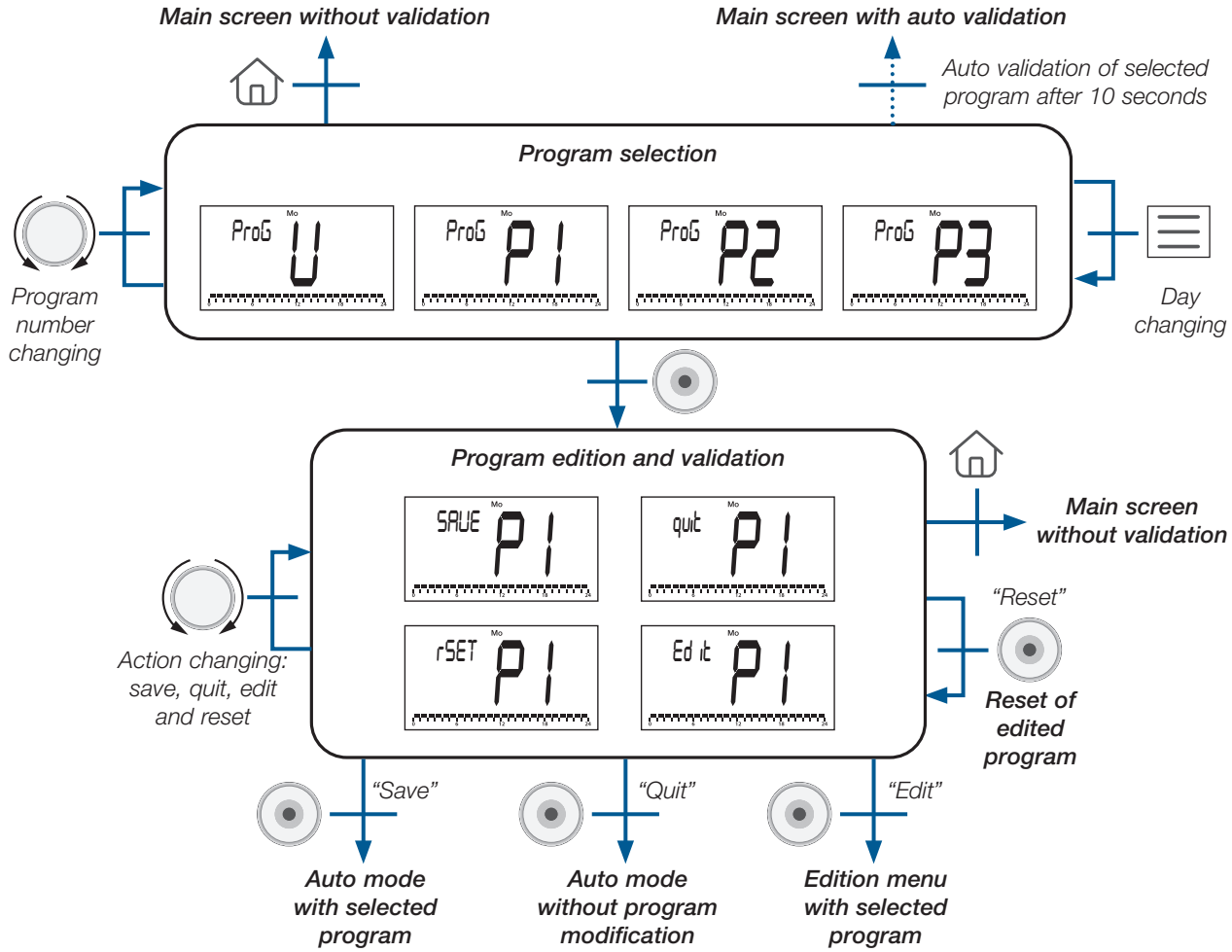


6.2 Description of embedded and user programs

User can choose a program between four:

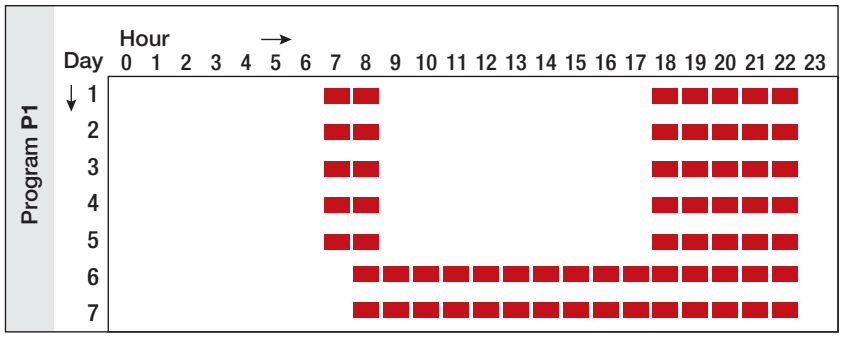
- P1 to P3: Built-in program (see paragraph "Built-in program description");
- U: User program which can be modified by final user (see paragraph "Program edition menu").

6.3 Description of program selection menu

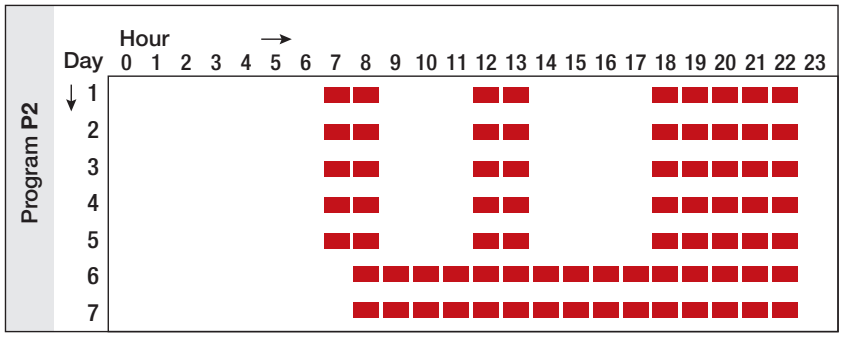


6.4 Built-in program description

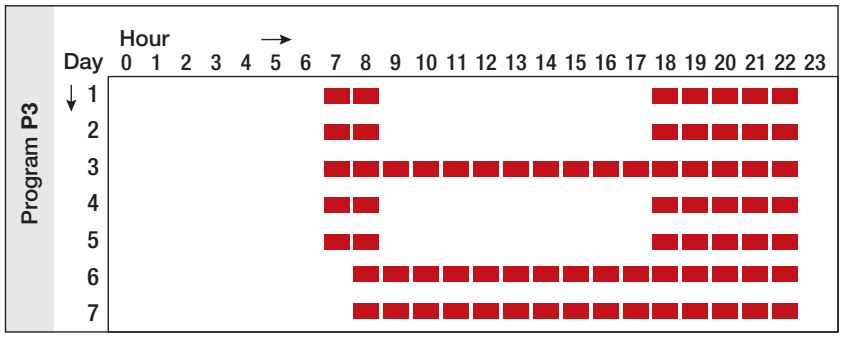
P1 (Default program): Morning (7h-9h), Evening (18h-23h) & Week-end (8h-23h)



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

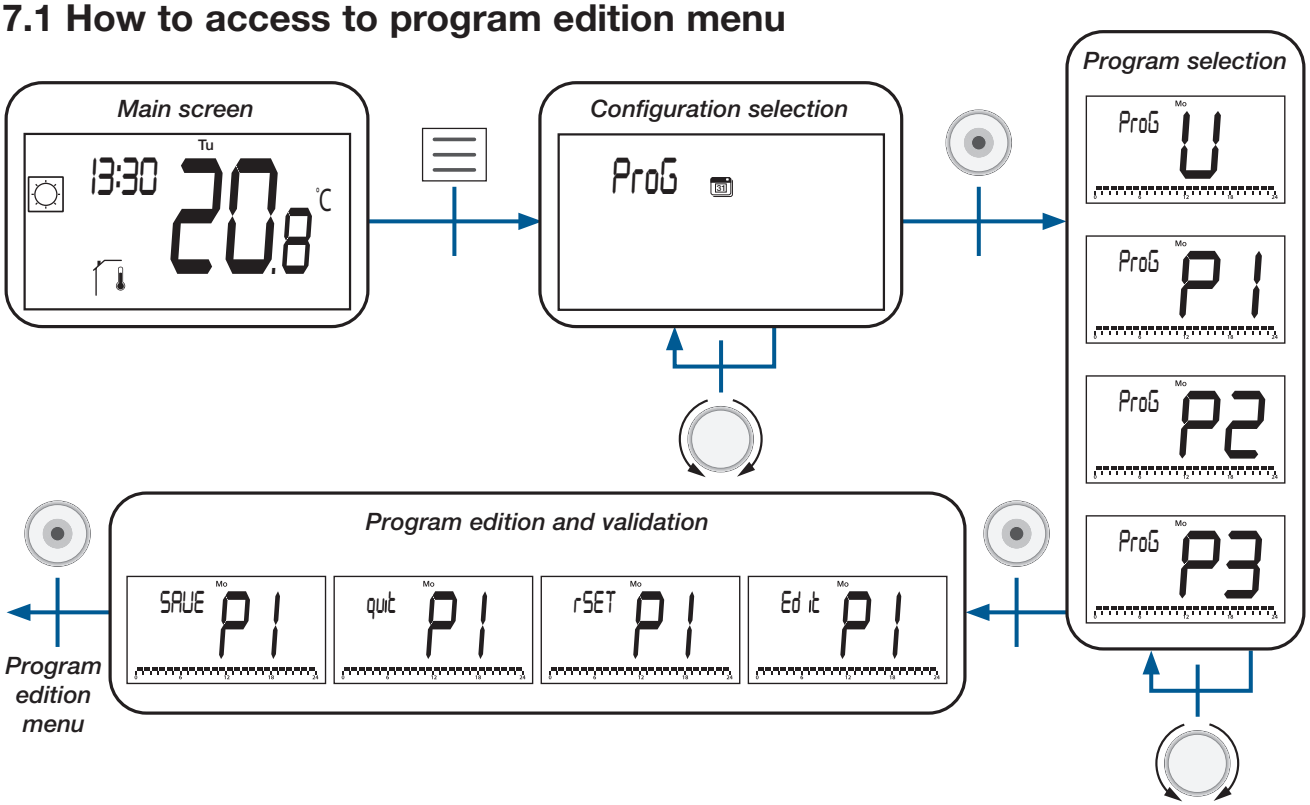


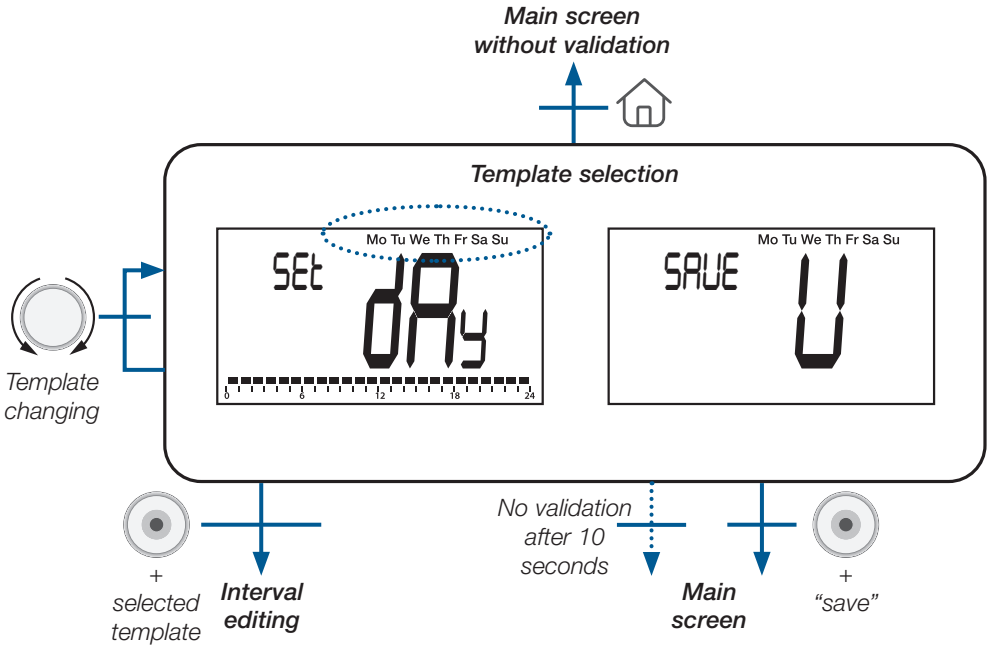
P3: Morning (7h-9h), Evening (18h-23h) & Wednesday (7h-23h) & Week-end (8h-23h)



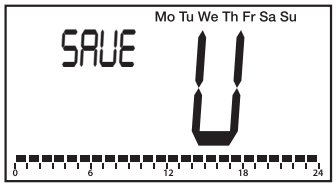
7. Program edition menu

7.1 How to access to program edition menu





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

7.2 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.

Interval selection: no defined interval

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

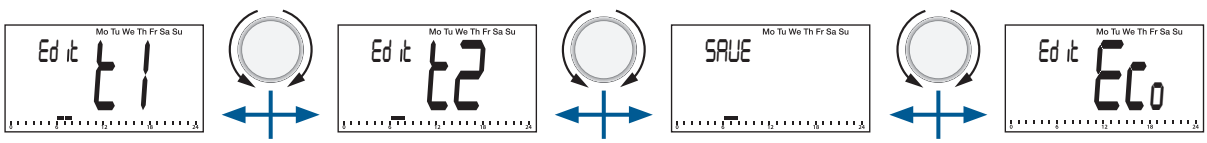
interval “t1” for modification,

interval “t2” for edition of a new interval,

“ECO” to define reduced set point or

“SAVE” to save program with only one interval.

Interval selection: 1 defined interval

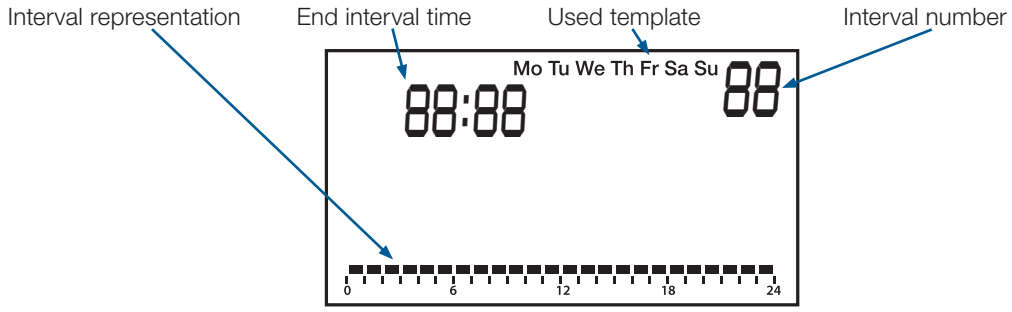


Important points:

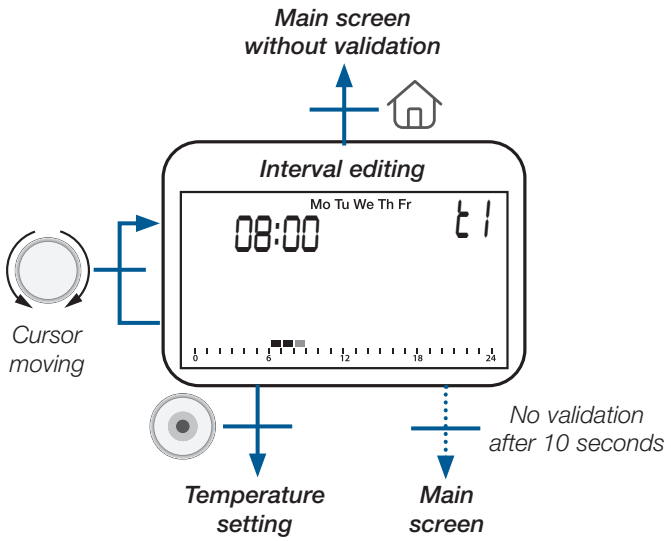
- ➤ Without any edited “comfort” interval, thermostat will apply during all day ECO temperature set point.
- ➤ ECO/reduced set point value ca be modified in “program edition menu”. But, user will be able to modify this value by going to “reduced/ECO mode” (see paragraph “Working mode description/Reduced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

7.3 Interval definition

Description of information displayed on LCD:



Description of HMI:



Important points:

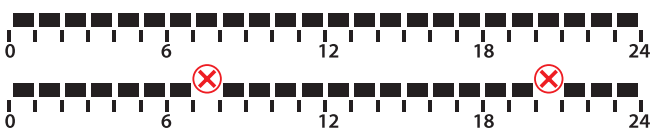
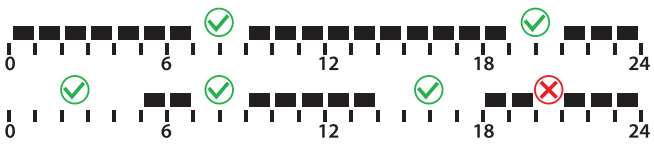
➤ If user press validation key  at the beginning of interval, user will return to the selection of interval number.

➤ 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).

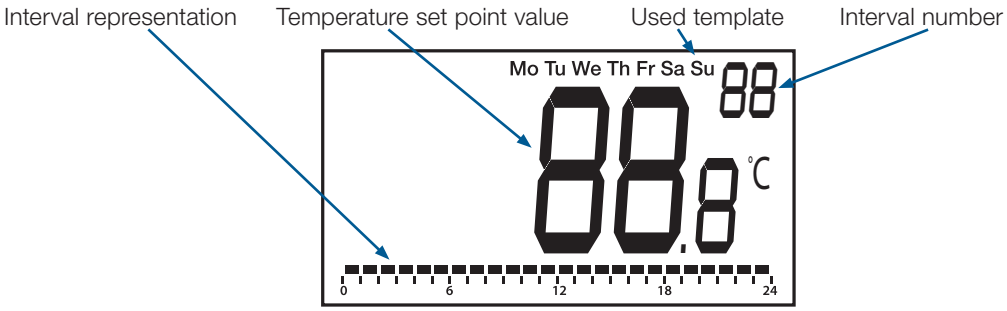
➤ Minimal size of interval is automatically managed.

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

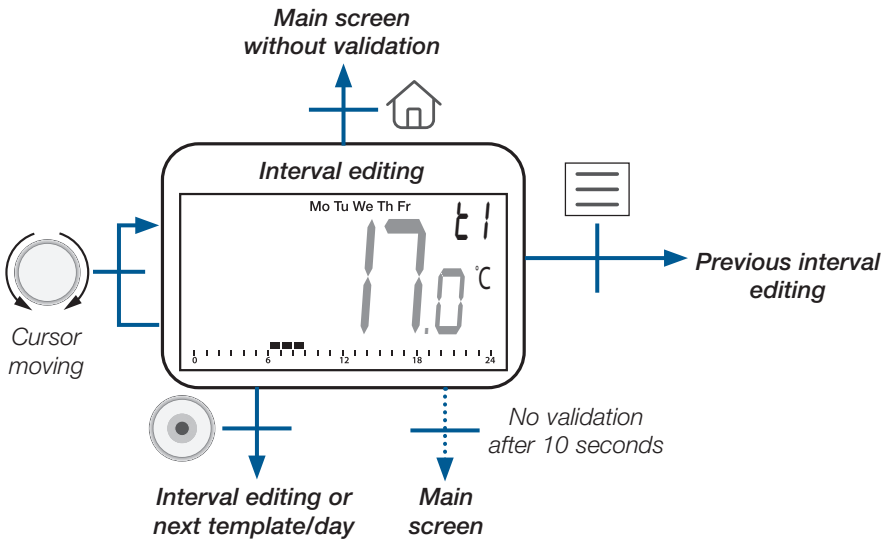
7.4 Set point definition

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:

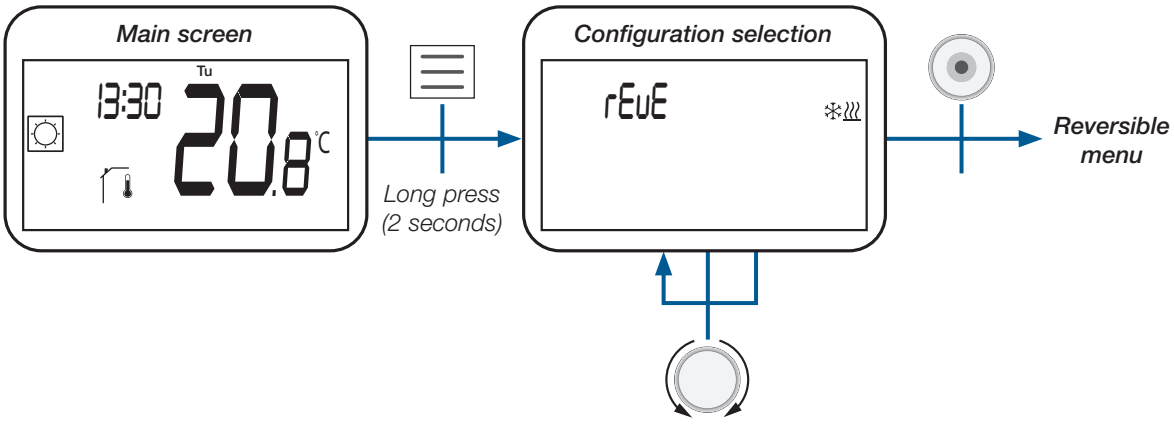


8. Reversible menu

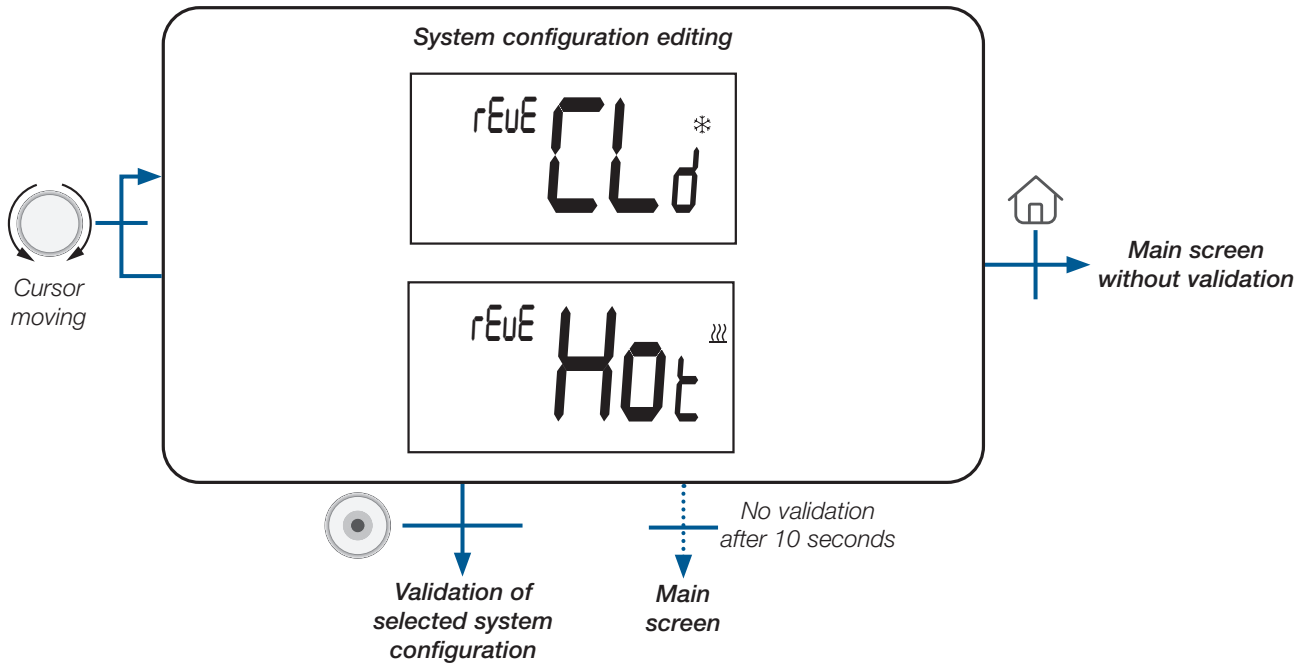
User will go to this menu to change system configuration: heating, cooling, switching.

This menu is allowed/activated by user with configuration parameter described in paragraph “User parameter description”. Once this menu is active, user can access to it as presented bellow (see paragraph “Description of menu level”).

8.1 How to access to reversible menu



8.2 Description of reversible menu

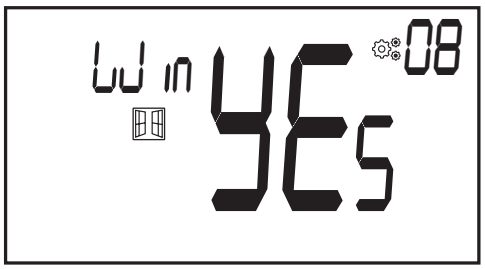


8.3 Description of system configuration

System configuration	LCD screen	Description
Heating	rEuE Hot	System will only heat.
Cooling	rEuE CLd	System will only cool.

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.

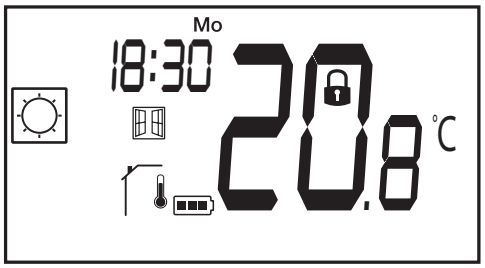
When an opened window is detected, the thermostat applies to heating system antifreeze temperature set point.

User can restart heating system, and stops window detection by pressing on a key.

10. Keyboard locking

Wake-up the thermostat (lighted backlight), Press and hold and keys simultaneously.

Once locking is activated, logo appears on the LCD screen:



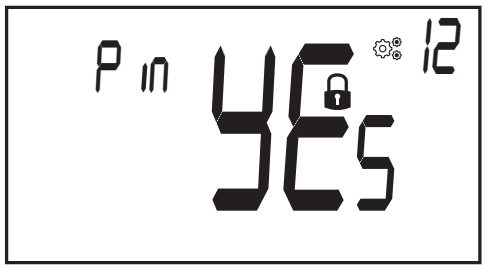
11. PIN code

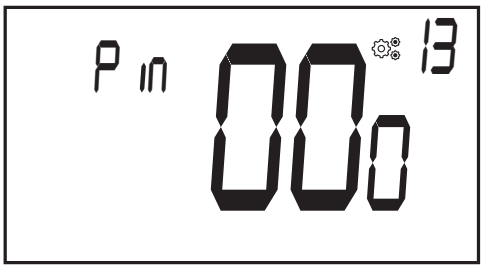
To activate this function enter user parameter 12 then define the PIN code in parameter 13.

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.





12. Other informations

12.1 Heating and cooling indications Logos

Heating is  (comfort mode) - Cooling is  .

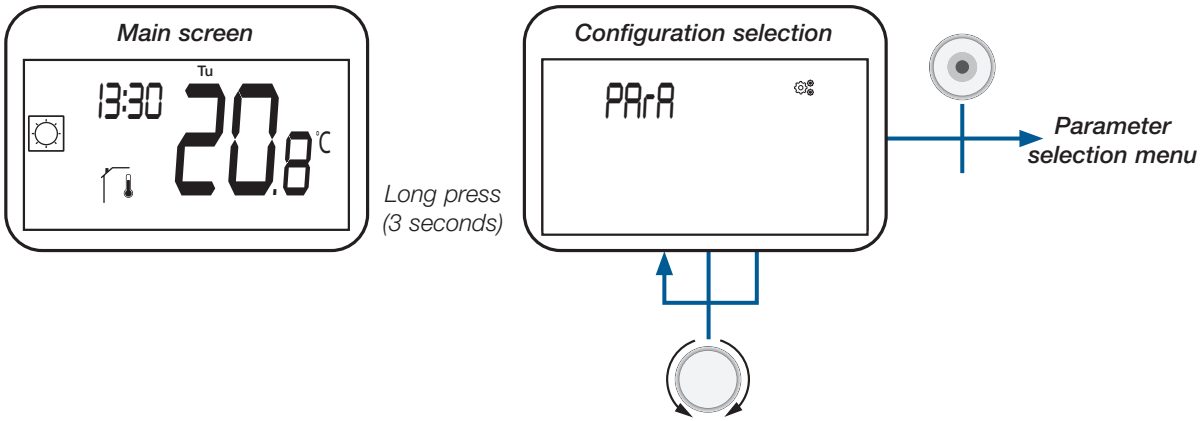
12.2 Battery level indication

The icon will blink  on LCD screen. After battery replacing,  won't be displayed.

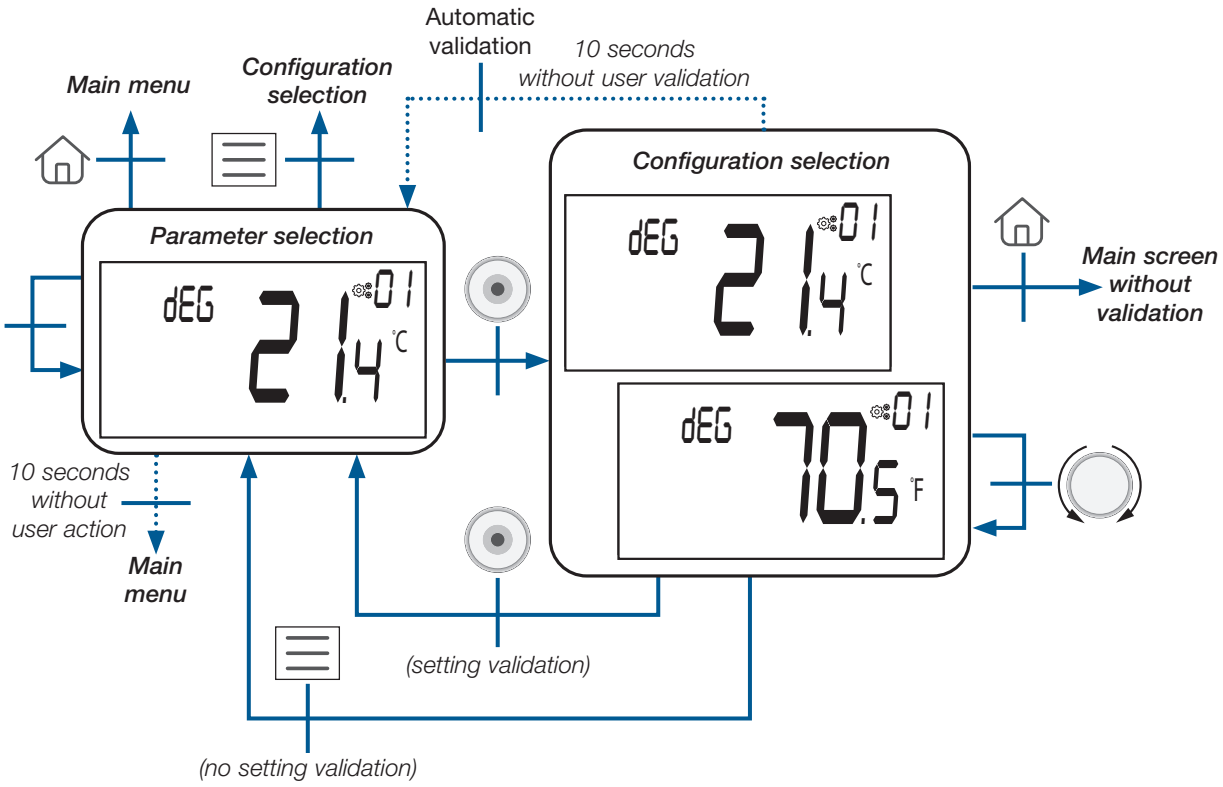
User has to push home button  in main menu to display battery value.

13. Parameter selection menu

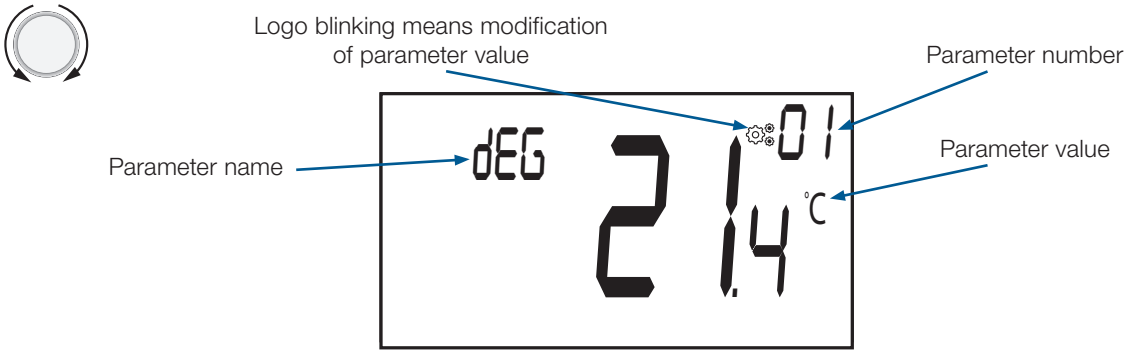
13.1 How to access to user parameter selection menu



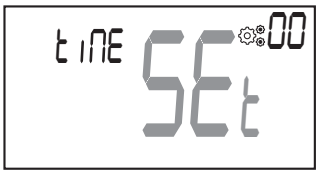
13.2 Description of user parameter setting



Information displaying on LCD screen:

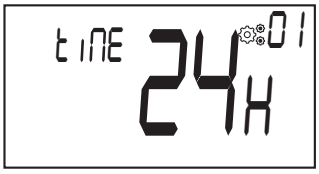


14. User parameter description



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".

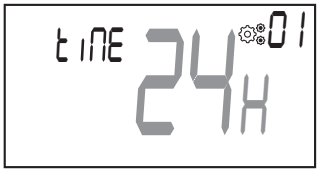


Default value: **24H**

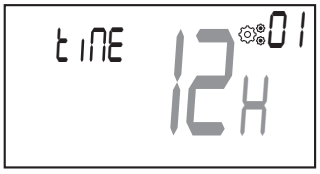
Values: **24H /12H**

Selecting the clock display format "time"

➤ "**24H**": 24:00 format



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

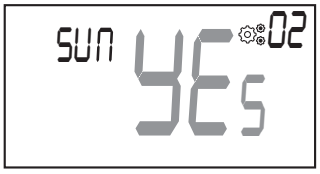


Default value: **Yes**

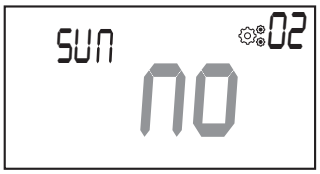
Values: **Yes / no**

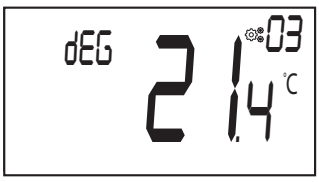
SUM – Daylight summer time

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



➤ "**no**": thermostat doesn't change automatically time



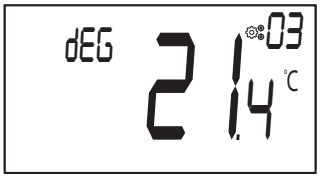


Default value: **°C**

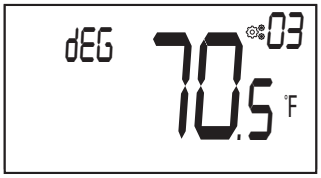
Values: **°C / °F**

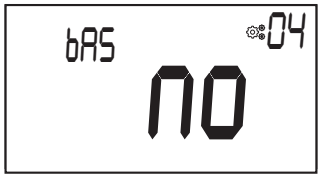
Degree unity for displaying

➤ "**°C**": Celsius



➤ "**°F**": Fahrenheit



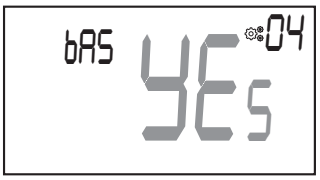


Default value: **no**

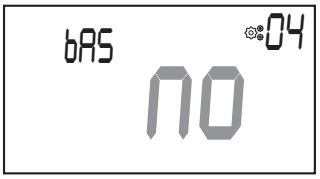
Values: **Yes /no**

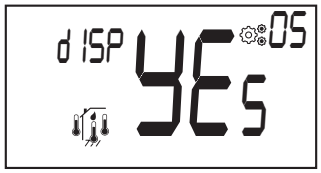
“basic navigation” configuration

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



➤ “**no**”: no activation



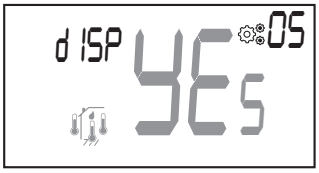


Default value: **no**

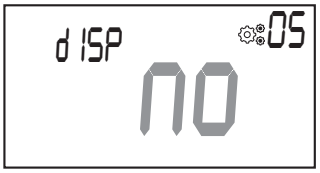
Values: **Yes /no**

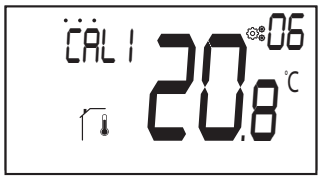
Room temperature display

➤ “**Yes**”: remote displays measured temperature



➤ “**no**”: thermostat displays set point temperature



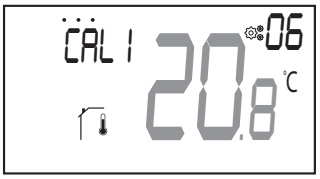


Default value:
0°C of offset

Values:
between -5.0°C and 5.0°C

Calibration of internal room sensor

This menu is only displayed if parameter rEG (#20) is set with “Air” or “Fll”.
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).



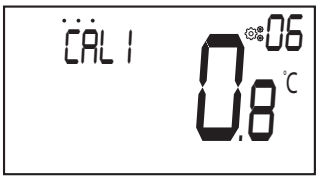
The setting is validated with key .
Displaying of logos • • • • • • • means than a calibration has been performed.

Important note:

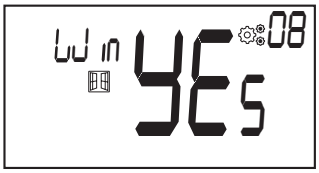
➤ A large temperature deviation may indicate an inappropriate installation of the thermostat. If the temperature difference is too big, this could mean your thermostat was not installed properly e.g. in the right place.

➤ If user press key during 3 seconds, sensor calibration is reset • • • • • • • won’t be displayed on LCD screen.

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



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

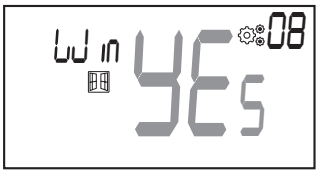


Default value: **Yes**

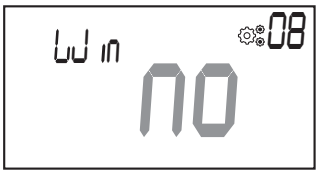
Values: **Yes /no**

WIN - Open window detection

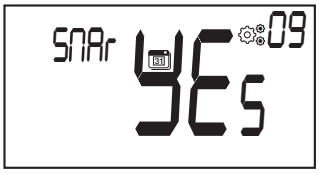
➤ "**Yes**": activation of function



➤ "**no**": no activation



More information is in paragraph "Opened window detection"

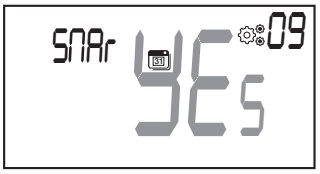


Default value: **Yes**

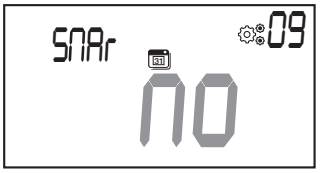
Values: **Yes / no**

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

➤ "**Yes**": activation of function



➤ "**no**": no activation



Default value: **Hot**

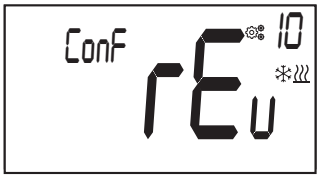
Values: **Hot / CLd / rEv / Aut**

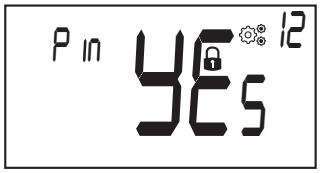
Operating configuration of thermostat

➤ "**Hot**": Heating mode. Only heating or comfort menu is enable. Cooling menu is disable .

➤ "**CLd**": Cooling mode. Only cooling menu is enable . Heating or comfort menu is disable (see paragraph "Working mode description").

➤ "**rEv**": activation of "Reversible" menu (cf. paragraphs "Description of menu level" and "Reversible menu").



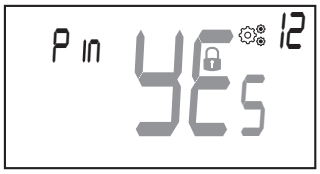


Default value: **Yes**

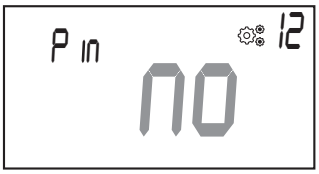
Values: **Yes / no**

PIN code activation

➤ "**Yes**": activation of function



➤ "**no**": no activation



More information is in paragraph "PIN code"

Default value: **000**

Values: **000 to 999**

Setting value for PIN code

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

Reset user settings

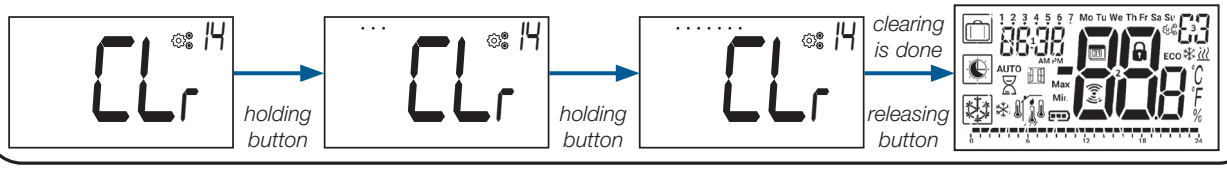
Press and hold for 5 seconds to reset, all segments light up, showing that the thermostat has been reset with the factory default setting:

➤ Set point temperatures in modes,

➤ All user parameters with their factory values.

When button is hold:

Clearing user parameters



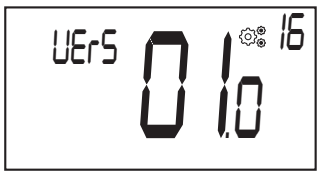
ECO/Reduced offset setting:

User configure offset value for permanent ECO/reduced mode (see paragraphs "Reduced/ECO mode" and "Reduced/ECO mode regulation").

Default value:
2.0°C or 3.6F

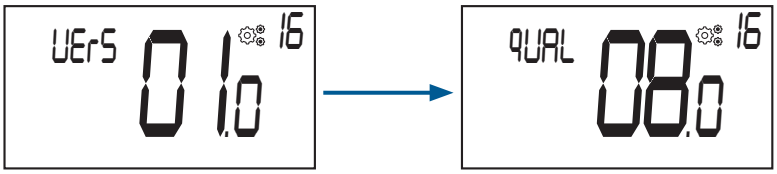
Step values:
0.1°C or 0.2F

Range value:
0.0°C to 5.0°C or
0.0F to 9.0F

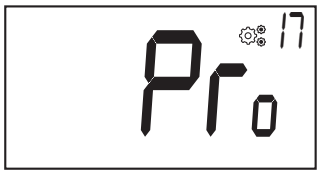


Displaying client software version

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



Reminder: software version is written: Vxx.xx.

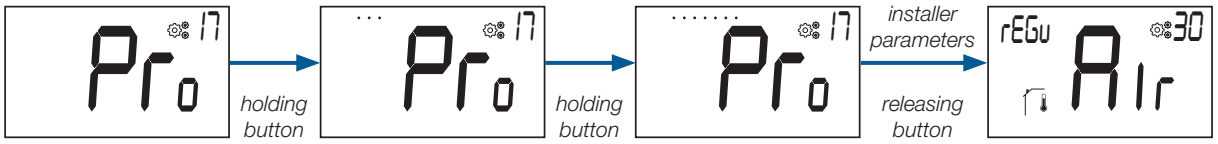


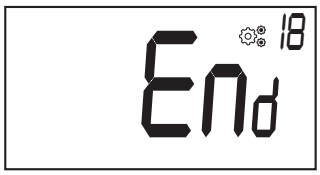
Professional/installer menu

This menu permits to access to installer parameter menus. Pressing and maintaining key displays first parameter of installer menus.

When button is hold:

Accessing to installer parameters



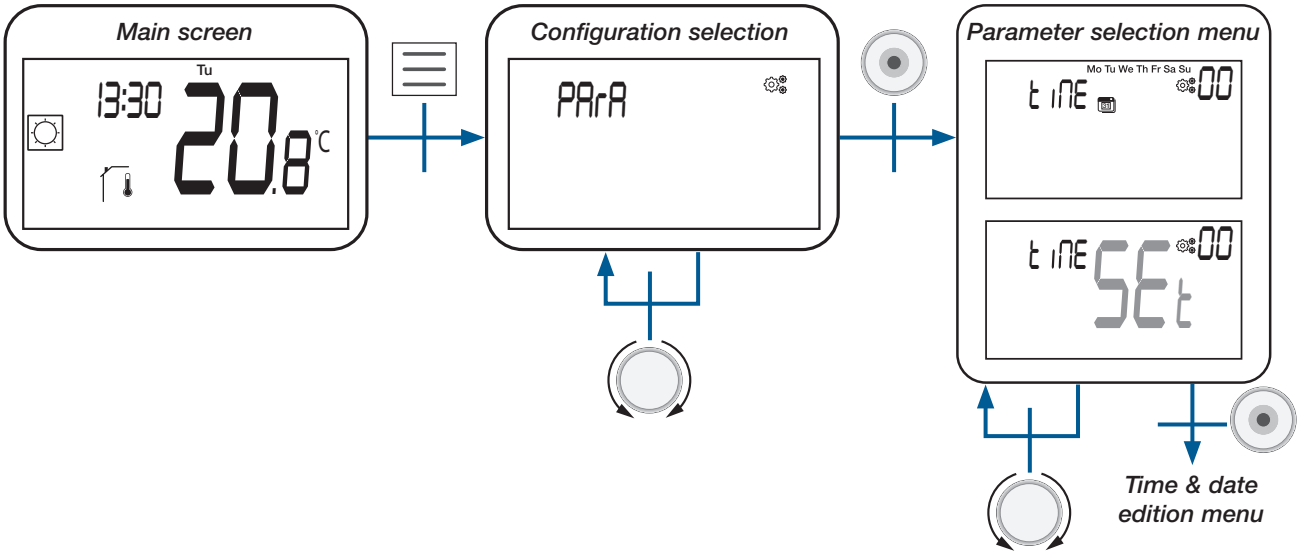


User menu exit

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

15. Time and date edition menu

How to access to time and date edition menu

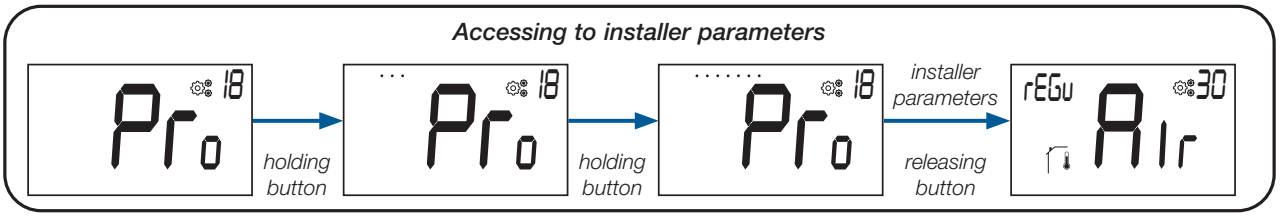


16. Installer parameter description

To access to these installer parameters, installer has to go to user parameter #15.

After, he presses and holds validation key during 5 seconds:

After, to help user to access to menu, an animation is realized during holding of button :



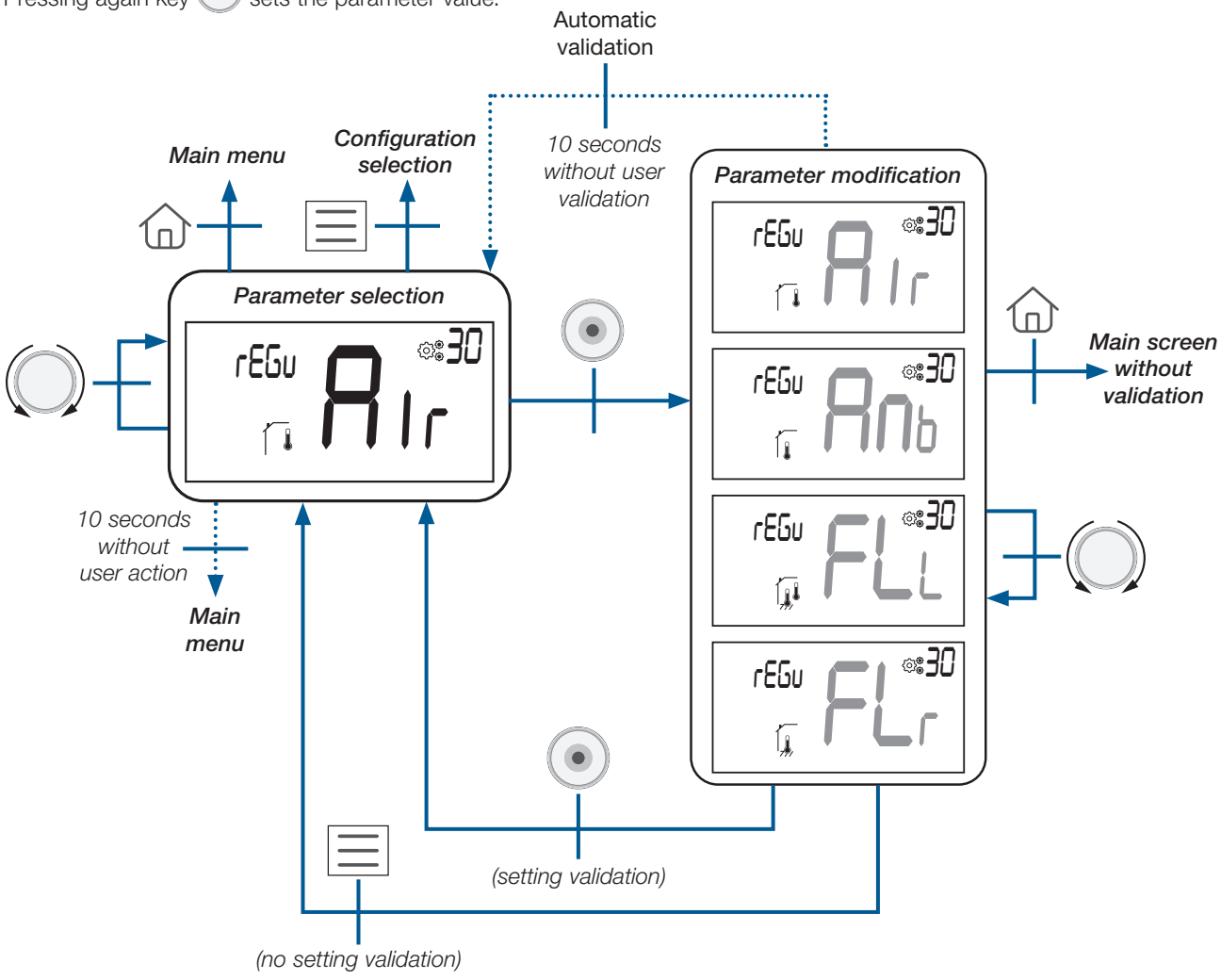
Using reset button on thermostat back, user can access directly to professional menus (see paragraph “Reset”).

16.1 Description of professional parameter selection menu

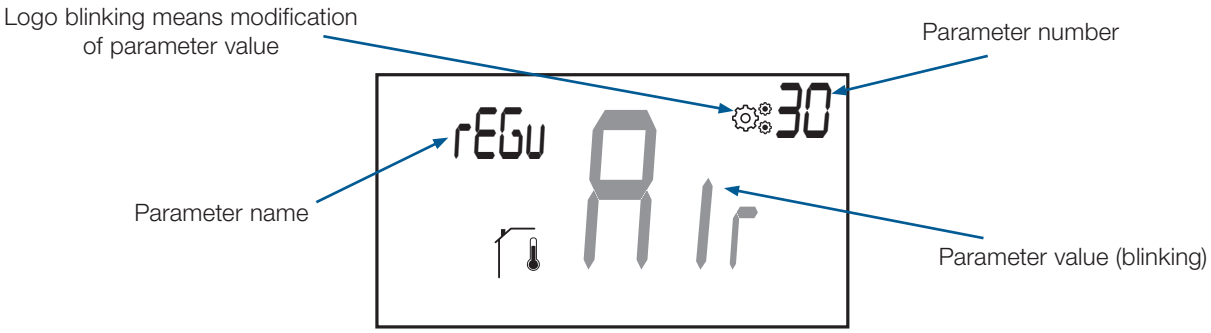
The menu scroll is done with rotator button . Menu is selected by pressing key .

Once in the menu, the parameter value is changed by turning rotator button .

Pressing again key sets the parameter value.

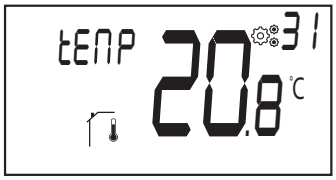


16.2 Information displaying on LCD screen

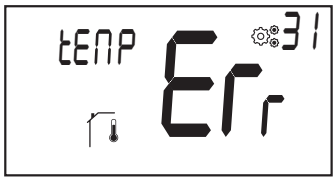


16.3 Professional parameter description

Displaying of **measured temperature by internal sensor**



If “Err” is displayed, internal sensor is damaged:



Thermal compensation:
Activation or not thermal compensation of the relay warm. It will apply 2°C according to an exponential curve with a time constant of 40 minutes for warm up (relay on) and 50 minutes for cool down (relay off).

"**no**": thermal compensation deactivated

"**yes**": thermal compensation activated

Factory value: **2 minutes**

Other values: **"no" to 5 minutes (in proportional regulation) and 30 minutes (in hysteresis regulation)**

Anti-short Cycle time ON:

Setting time value of minimum ON-state load. Time value is a number of minutes. Use turning button keys to set value. The setting is validated with key.

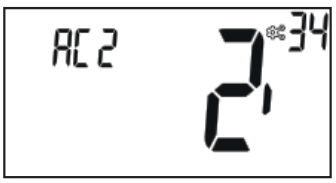
If installer wants to deactivate functionality, he has to configure "**no**":

Factory value: **2 minutes**

Other values: **"no" to 5 minutes (in proportional regulation) and 30 minutes (in hysteresis regulation)**

Anti-short Cycle time OFF:

Setting time value of minimum OFF-state load. Time value is number of minutes. Use turning button keys to set value. The setting is validated with key.



If installer wants to deactivate functionality, he has to configure "no":

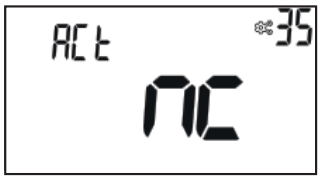
Default value:
NC

Values:
NO

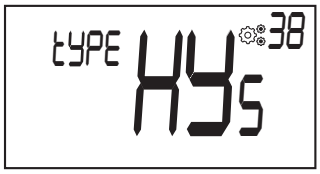
Actuator model:

Setting actuator model:

“no”: normally open



“nc”: normally close

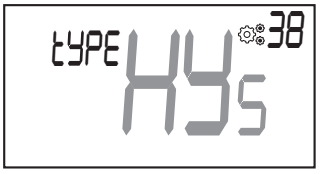


Default value: **HYS**

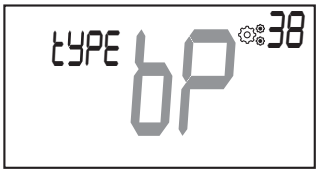
Values: **HYS / bP**

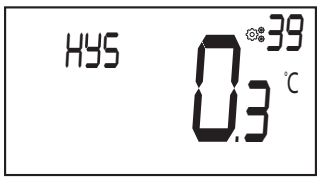
Regulation type

➤ “**HYS**”: regulation of hysteresis



➤ “**bP**”: regulation of proportional type





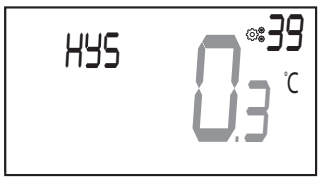
Default value: **0.5°C**

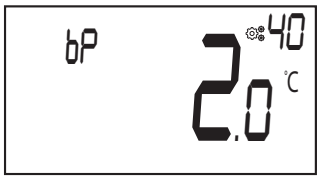
Values:
between 0.2°C and 3°C

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: **2°C**

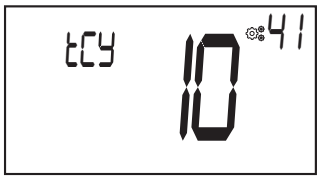
Values:
between 2°C and 5°C

Proportional Band

This menu is displayed only if parameter “Typ” is equal to “bp”.

Use turning button to set proportional band value.

The setting is validated with key.



Default value: **10 minutes**

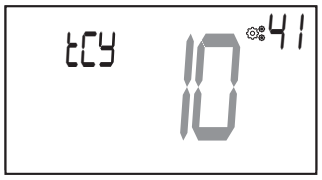
Values: **[10 15 30 45 60]**

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.



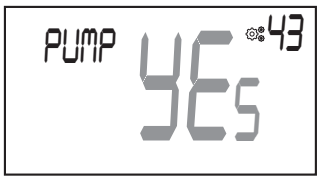
Default value: **no**

Factory Values: **no / Yes**

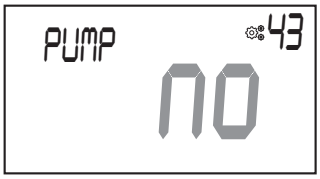
Pump and valve exercises:

Activation or not of system exercise function. It will drive pump during 4 minutes after 7 days pump off

“**Yes**”: activation of function



“**no**”: no activation



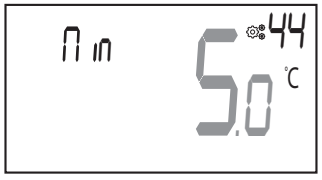
Default value: **5.0°C**

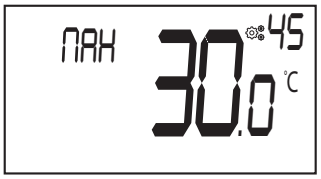
Values:
between 5.0°C and 15.0°C

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**

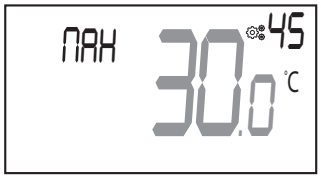
Values:
between 20°C and 35°C

Room temperature limitation

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

Use turning button to set temperature value.

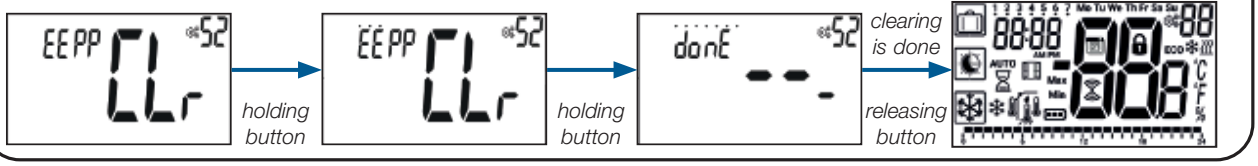
The setting is validated with key.

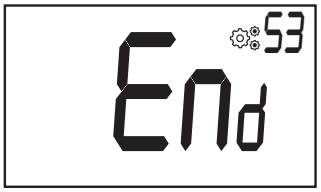


EEPROM clearing

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

Clear all parameters





User menu exit

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

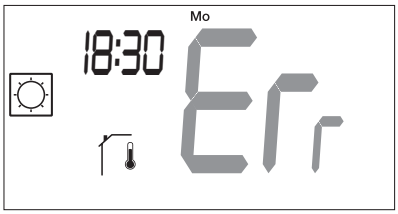
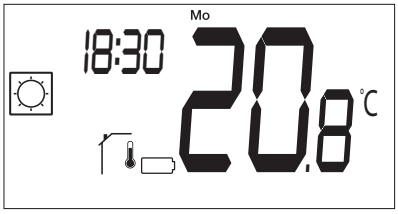
17. Troubleshooting & solutions

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

Internal sensor error		**Displaying of "Err" and** 
Low batteries		**Backlight ON: Icon blinking** 

18. Maintenance

Battery level indication

The batteries are considered weak when voltage level is too low for a correct product functionning.

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:

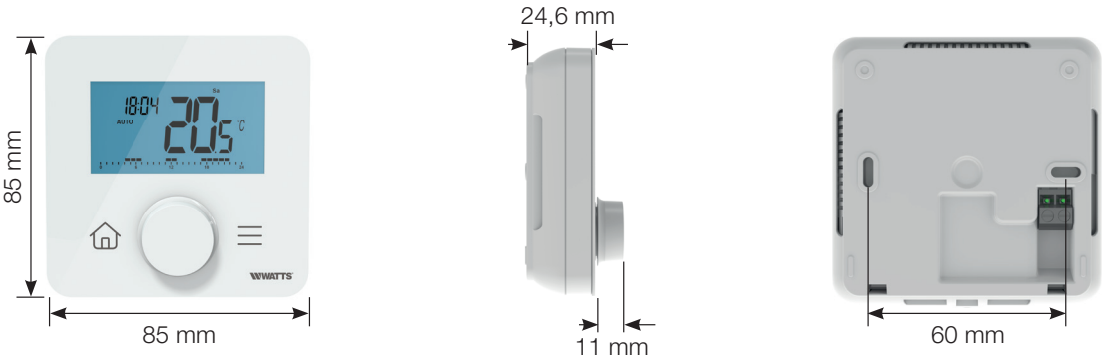
- Lightly dampen a soft and clean cloth with water.
- Wring out any excess water from the cloth.
- Gently wipe the display and sides of the thermostat, making sure no drops of water accumulate around the product.

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

19. Technical datas

Purpose of control	Thermostat
Construction of control	Electronic independently mounted control
Software class	Class A
Extension of sensing element	Temperature
Control pollution degree	2 - Normal household environment/ 3 (blower)
Temperature for ball pressure test	75°C
IP (degree of intrusion of foreign bodies and degrees of resistance to water)	IP30
Maximum ambient humidity (relative humidity)	80% to 20°C (68°F)
ERP	IV
Ambient operating temperature	0°C to 50°C (32°F to 122°F)
Storing temperature	-20°C to 60°C (-4°F to 140°F)
Batteries	Two AAA alkaline batteries of 1.5V (1 year battery life warranty and protection against battery inversion)
Relay output	230/24 VAC 3A (1A)
Internal temperature sensor	CTN 10K at 25°C
Temperature sensor (accuracy)	± 0.3°C
Backlight	White

19.1 Dimensions & weight



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

20. 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 (EMC) – Directive 2014/30/EU	Electromagnetic compatibility - Requirements for household appliances, 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	
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/EU

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