

IT

## CRONOTERMOSTATO DIGITALE DISPLAY LUMINOSO E NAVIGAZIONE A MENU

Installazione da parete

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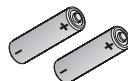
## DIGITAL WEEKLY PROGRAMMABLE THERMOSTAT BACKLIT DISPLAY AND MENU DRIVEN

Wall mounting



Alimentazione a pile (2x 1,5dc LR6-AA)  
Settimanale, Inverno / Estate  
3 livelli di temperatura + antigelo  
Ingresso per contatto remoto  
Ingresso per sonda di temperatura remotabile

Battery-operated (2x 1,5dc LR6-AA)  
Weekly, Winter / Summer  
3 temperature levels + antifreeze  
Input for remote contact  
Input for remote temperature probe



2x 1,5V dc LR6-AA  
(not included)







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# ENGLISH

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# 1 - TECHNICAL DATA

Power supply	n° 2 Alkaline batteries 1,5 V type AA (LR6)
Autonomy:	Approx. 2 years
Battery life after the  "battery low" symbol starts flashing on the display:	Approx. 15 days
White color backlight:	timed 6 sec. (default) / always off
Type of action, disconnection and device:	1 / B / U / Electronic
Type of output:	voltage free relay with COM / NO / NC changeover contact, max 5(3)A/250 V ~
Software:	class A
Rated impulse voltage:	4 kV
Cross-section of wires to terminals:	1,5 mm <sup>2</sup> ÷ 2,5 mm <sup>2</sup>
Contact input for remote switching on:	for NO or NC contact free from potential
Input for separate remote probe:	yes - probe may be set depending on use: remote, floor, external
Type of insulation:	class II 
Degree of protection:	IP 30
Pollution rating:	normal
Number of temperature levels:	N° 3 = « comfort», «activity» (pre-comfort), «economy» + antifreeze
Ambient temperature display range:	- 5.0 °C ÷ + 37.7 °C (+ 23 °F ÷ +99.9 °F)
Floor probe threshold display range:	- 0.0 °C ÷ + 60.0 °C (+ 32 °F ÷ +140 °F)
External probe display range:	- 9.9 °C ÷ + 60.0 °C (+14.2 °F ÷ +140 °F)
Relay ON signal:	Flashing  + ON (winter) or  + ON (summer)
Room temperature indicator resolution:	0.1 °C (0.1 °F)
Temperature Set adjustment range (t1/t2/t3):	+5 °C ÷ +37.7 °C (+41.0 °F ÷ +99.9 °F) limitable
Setting temperature Set:	adjustable by 0.1 °C / 0.1 °F sets
Temperature correction (Offset):	adjustable from -3.0 °C (5.4 °F) to +3.0 °C (5.4 °F) default 0.0 °C/0.0 °F
Antifreeze temperature: (t*):	adjustable + 5 °C ÷ <t3 (41.0 °F ÷ <t3) default 6 °C (42.8 °F)
Type of temperature adjustment: - DIFFERENTIAL ON/OFF (default) - MODULATING PROPORTIONAL WITH CONTROL PERIOD	adjustable from 0.2 °C to 1.2 °C (from 0.3 °F to 2.1 °F) default 0,3 °C (0,4 °F) cycles adjustable from 7 to 20 minutes (default 10 minutes)
Energy classification ERP Reg. EU 811/2013: - in ON/OFF Differential mode - in Modulating proportional mode	ERP Class I 1% ERP Class IV 2%
Thermal gradient:	max 1°K / 15 min
Temperature reading tolerance:	± 0,5°C (± 0,9°F)
Operating temperature limits:	0 °C ÷ +45 °C
Storing temperature limits:	-10 °C ÷ +60 °C
Reference regulations for CE markings:	LVD - EMC EN60730-2-7 EN60730-2-9

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## 2 - FACTORY SETTINGS

The data entered in the programmable thermostat called «FACTORY SETTINGS» refer to operation defined as «Standard». The following chapters describe all customisable functions, in order to satisfy any ambient comfort need.

**FACTORY SETTINGS TABLE (default)**

Parameter	Default	Restore «reset»
Language	IT (Italian)	To confirm
Year/month/day/hour-minutes	To set	To confirm
Daylight saving/ Standard time	Euro (UTC +1)	Last value
Active season	Winter	Default
Temperature unit of measure	°C (Celsius)	Last value
Set Winter t1	20.0°C	Default
Set Winter t2	18.0°C	Default
Set Winter t3	15.0°C	Default
Set antifreeze t*	6.0°C	Default
Set Summer t1	24.0°C	Default
Set Summer t2	27.0°C	Default
Set Summer t3	33.0°C	Default
Temp. locks Winter	Disabled	Default
Temp. locks Summer	Disabled	Default
Weekly hourly profile	🔥 P01	Default
Weekly hourly profile	❄️ P03 (not active)	Default
Temp. adjustment mode	DIFF. ON/OFF	Default
Differential hysteresis	0.3°C	Default
Modulating proportional	Prop (not active)	Default
Modulating period	10 min. (not active)	Default
Room temp. correction	🔥 0,0 °C	Default
Room temp. correction	❄️ 0,0 °C	Default
Anti-scale protection cycle	Disabled	Last value
Display contrast	Level 6	Default
Display back-lighting	Timed 6 sec.	Default

Parameter	Default	Restore «reset»
Remote probe	(not active)	Last value
External input	(not active)	Last value
User password	none	Default
Installer password	none	Default
Password reset code	0927	Default

### RESTORE «Installer RESET»

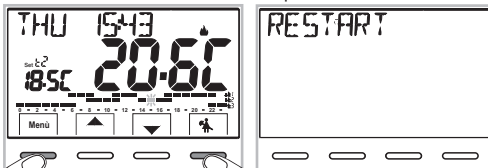
#### Restore many factory settings (default)

RESTORE brings the programmable thermostat back to factory settings with the exception of some items as shown in the table; to perform the operation follow the instructions in paragraph 11.15.

### RESTART

#### It does not cancel the entered settings

Should the programmable thermostat feature malfunctioning, wrong displays or other incorrect conditions, perform a «User reset». Simultaneously press for 4 sec. the **Menu** and **🔥** keys. The timer thermostat resumes normal operation.



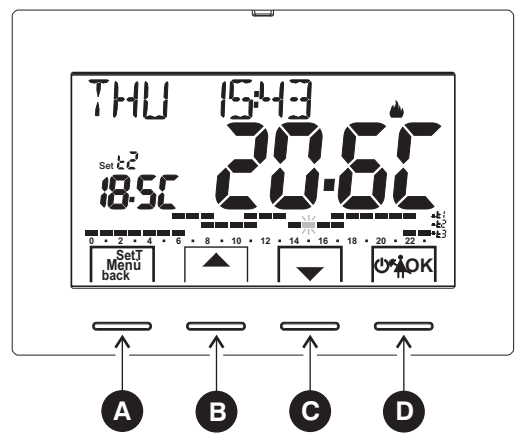
Press simultaneously for 4 seconds

### 3 - KEY FUNCTIONS

#### Backlit display

Touching any key activates back-lighting, displaying the words selection and navigation, press the desired key within 6 sec. to vary the settings (touching any key reactivates a 6 sec time-out).

**Note:** more particular button functions are described in the specific paragraphs.



**A Multifunction Key Set, T, Menu, back**, its use changes depending on function or active menu:  
**Menu** = access to menus, **back** = go back to previous item, **Set, T** = change time profile (program)

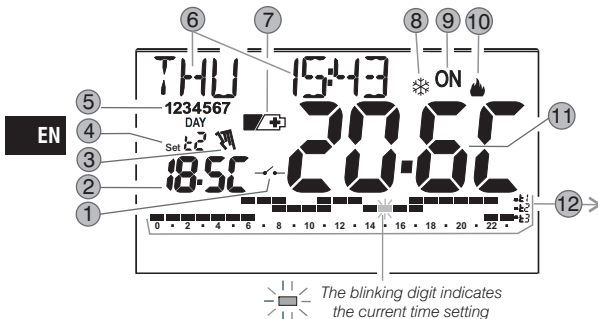
**B ▲ Key navigation through the menus:** to increase a setting value  
 (within some functions the key turns into ◀: it lets you set or scroll the information on the left)

*Press the pulse arrow key to increase/decrease per unit and keep pressed to increase/decrease rapidly.*

**C ▼ Key navigation through the menus:** to decrease a setting value  
 (within some functions the key turns into ▶: it lets you set or scroll the information on the right)

**D Multifunction Key** **OK**  
 programmable thermostat in OFF (disabled temperature control)  
 current program pause for household cleaning  
**OK short pressure:** access to selected menu / confirm function or set value (within the menus)  
**OK prolonged pressure (4 sec.):** save modified time/thermal program (PROGRAM menu)

## 4 - DISPLAY FEATURES



### Time and thermal scale programmed over 24 hours:

- - t 1 Upper digit position = Comfort temperature t1
- - t 2 Intermediate digit position = Working temperature t2
- - t 3 Lower digit position = Economy temperature t3
- lack of Digits = temperature t \* Antifreeze (in Winter) or disabled temperature control (in Summer)

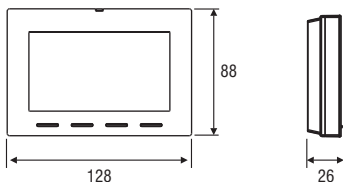
2 digit one above the other: HALF-HOUR (½ h) operation for each type of temperature denoted by the two digits.

- 1 Enabling timer thermostat from remote control
- 2 Display Set temperature
- 3 Temporary or permanent override
- 4 Currently active set temperature depending on ongoing program:  
t1 Comfort or t2 Activity (pre-comfort) or t3 Economy (saving) or t\* antifreeze
- 5 Days of the week (visible in the PROGRAM menu)
- 6 Current day, time and minutes
- 7 Batteries low signal
- 8 Cooling mode (❄ Summer) active
- 9 Signalling operating user = ON and 🔥 flashing (e.g. boiler on)  
Signalling operating user = ❄ and ON flashing (e.g. conditioner on)
- 10 Heating mode (🔥 Winter) active
- 11 Detected room temperature

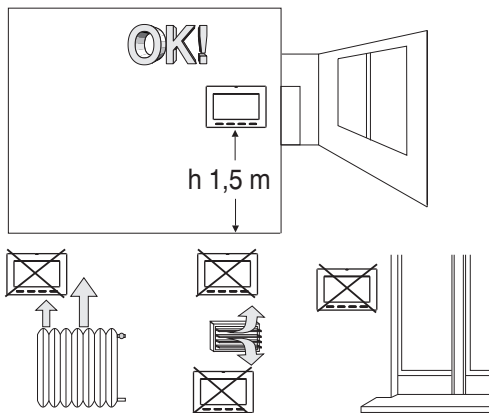
**Note:** further displays are described in the specific operation paragraphs

## 5 - INSTALLATION

### 5.1 - DIMENSIONS



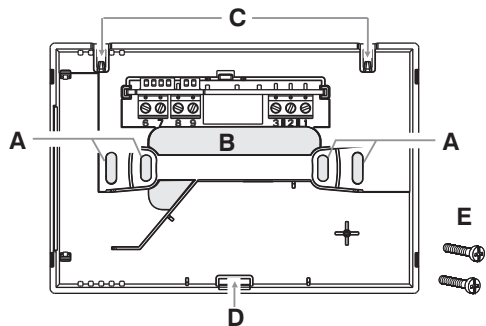
### 5.2 - INSTALLATION EXAMPLE



Install the programmable thermostat preferably at a height of 1.50 to 1.60 m from the floor, far from sources of heat, air inlets, doors or windows and anything that may alter its operation.

### 5.3 - FASTENING THE WALL BASE

- Switch off mains power 230V~ to device
- Fasten the base of the programmable thermostat with the screws supplied: to the wall, to the rounded or rectangular recessed box via the relative paired holes A.



- A** - base fastening holes: wall-mounted, round or rectangular recessed box
- B** - wire passage from corrugated tubes, round or rectangular recessed box
- C** - programmable thermostat hooking teeth
- D** - programmable thermostat fastening slot
- E** - screws to fasten the wall base to the rectangular or round recessed box.



To ensure the programmable thermostat is fitted correctly to the wall-mounted base, the latter must not be bent due to the screws being tightened too much to the rounded or rectangular recessed box.

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## 5 - INSTALLATION

### 5.4 - ELECTRICAL CONNECTIONS

**Important:** the installation and electrical connection of the devices and appliances must be implemented by qualified personnel and in conformity with current laws and regulations. The manufacturer declines all liability in connection with the use of products subject to special environmental and/or installation standards.

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 **Disconnect the 230V~ mains voltage**

#### Relay terminals

. connect the device to be controlled to the terminals

- 1 - common (C)
- 2 - normally closed contact (NC)
- 3 - normally open contact (NO)

#### AUX 1 Terminals (remote probe)

. terminals **6** and **7** may be connected to a separate temperature probe  
(see paragraph 11.9 to set the probe)

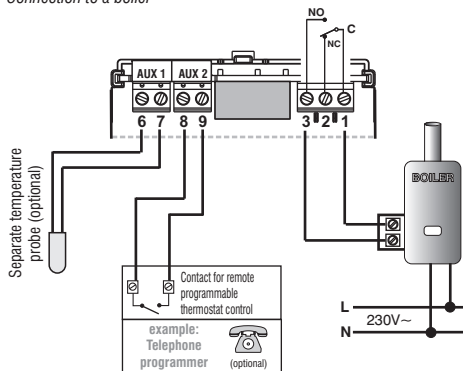
Note: maximum cable length 4 m

#### AUX 2 Terminals (remote contact)

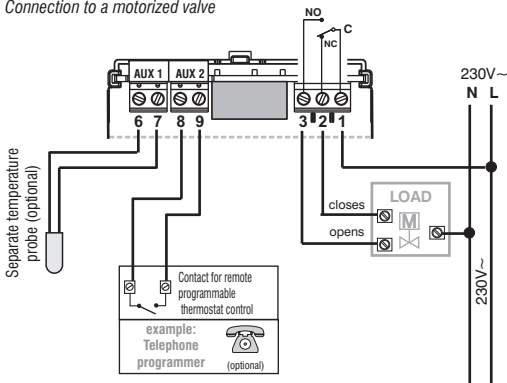
. terminals **8** and **9** may be connected to a telephone programmer (or switch) for remote programmable thermostat enabling (see paragraph 11.10 for external contact setting)

#### Examples of electrical connections

Connection to a boiler



Connection to a motorized valve

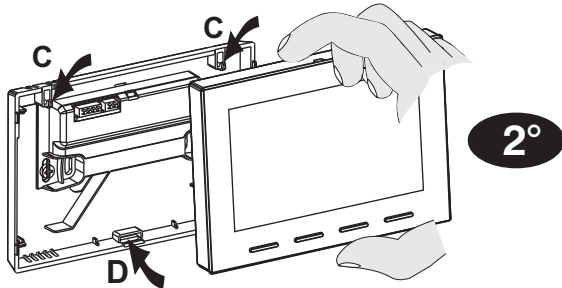
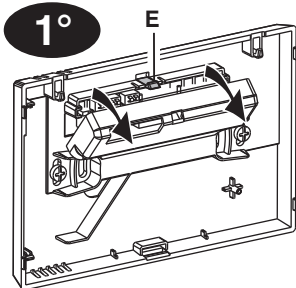


## 5 - INSTALLATION

### 5.5 - PROCEDURE TO FASTEN OR REMOVE THE PROGRAMMABLE THERMOSTAT TO/FROM THE WALL-MOUNTED BASE

After having made the electrical connections:

- Apply the terminal cover to the base, securing it to hook E.
- To remove the cover, use a small screwdriver on hook E for leverage.



Hook the programmable thermostat to the wall base in teeth C. Then turn the body of the programmable thermostat downwards until it is secured in slot D.

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### Convenient programming

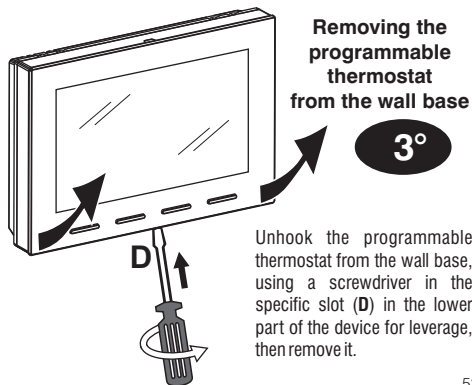


All programming operations may be performed before fastening the device to the wall base; this means programming may be carried out while comfortably seated.

the flashing **ON** indication with fixed winter or summer symbol indicates that the programmable thermostat is detached from the wall base.

Should programmable thermostat programming take place before fastening to wall base, upon completing installation the **ON** indication (off or flashing) on the display might not correspond to the actual relay status.

Within **1 minute at the most** after fastening the programmable thermostat to the wall base, the relay activates with the indication **ON** (off or flashing) displayed.



Removing the programmable thermostat from the wall base

Unhook the programmable thermostat from the wall base, using a screwdriver in the specific slot (D) in the lower part of the device for leverage, then remove it.

## 5 - INSTALLATION

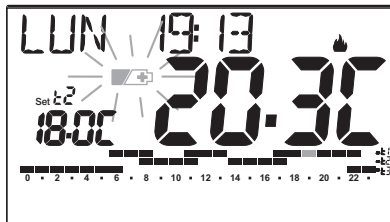
### 5.6 - SIGNALLING BATTERIES LOW OR DOWN

When the  symbol blinks, this indicates that the batteries are running out and as from this moment there are 15 days to replace them.

**EN** **Note:** the backlight of the display is automatically deactivated.

If the discharged batteries are not replaced within this time the display will completely turn off.

All thermoregulation is suspended and all settings are saved to be restored when the new batteries are inserted.

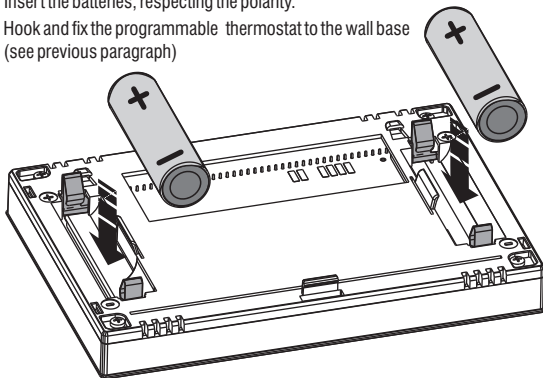


#### 5.6.1 - INSERTING OR REPLACING BATTERIES

Unhook the programmable thermostat from the wall base (see previous paragraph)

Insert the batteries, respecting the polarity.

Hook and fix the programmable thermostat to the wall base (see previous paragraph)



**Attention:** battery life may be more than 2 years. However, it is recommended to replace them at least every 24 months to avoid them running out when you are away (e.g. Christmas holidays, etc.)

**ONLY USE GOOD QUALITY ALKALINE BATTERIES**  
(Duracell or Energizer batteries are recommended)

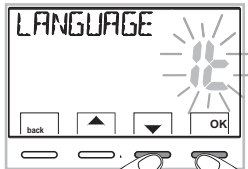
**3V dc**  
2 x 1,5Vdc LR6 - AA (not included)



Dispose of flat batteries in appropriate containers and as required by the environmental protection regulations.

# 6 - START THE PROGRAMMABLE THERMOSTAT

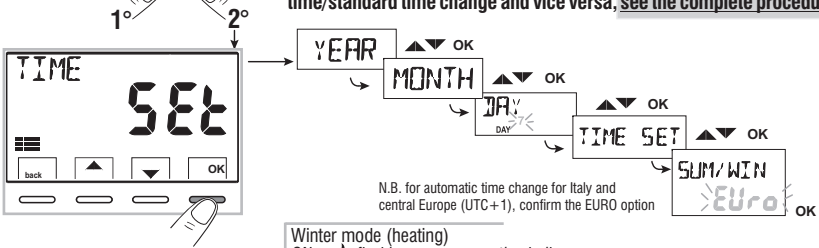
Upon first inserting the batteries, the programmable thermostat performs a lamp-test by switching on all display segments, displaying the installed software version for a few seconds. When this phase is over, the programmable thermostat asks to select the language of use.



Select the desired language by scrolling through the available languages using the ▲▼ keys. Confirm pressing the **OK** key.

The selectable languages are:  
 ITALIAN = *It* (default), ENGLISH = *En*, FRENCH = *Fr*, GERMAN = *dE*, SPANISH = *ES*.

**IMPORTANT:** in order to be able to WORK PROPERLY, the programmable thermostat requires you to enter the current year, month, day, hour and minutes, automatic daylight saving time/standard time change and vice versa, see the complete procedure in paragraph 11.4.

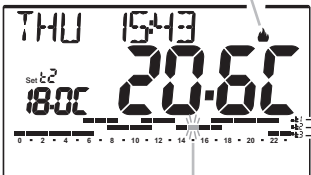


N.B. for automatic time change for Italy and central Europe (UTC+1), confirm the EURO option

Press the ▲▼ Keys to modify (pressing repeatedly increases or decreases by one unit, keeping the key pressed activates rapid scrolling). OK to confirm.

The programmable thermostat is immediately operative, displaying: current day, hour and minutes, **Winter** «heating» mode, standard time/thermal profile for every day of the week (PROGRAM P01).

Winter mode (heating)  
 ON + 🔥 flashing = e.g. operating boiler



The flashing digit indicates current time corresponding to the set level and temperature.

Program P01 times:

t1	06,30 ÷ 08,30
	11,30 ÷ 14,00
	17,30 ÷ 22,30
t2	08,30 ÷ 11,30
	14,00 ÷ 17,30
t3	00,00 ÷ 06,30
	22,30 ÷ 24,00

**Temperatures:**  
 t1 = Comfort  
 t2 = Activity  
 t3 = Economy

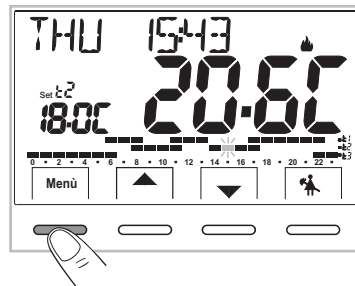
See paragraph 10.1 for adjusting the Set (level) temperature.

**Important:** should you wish to change operating mode from Winter 🔥 (heating) to Summer ❄️ (cooling) see paragraph 11.3. The P01 program can be modified or replaced by another program based on your needs, see paragraph 10.4.

## 7 - IMMEDIATE ACTIVATION OF THE MOST COMMONLY USED FUNCTIONS

From normal programmable thermostat operation in stand-by, pressing a key lights up the display (unless back-lighting has been disabled) and the words selection and navigation appear. Within 6 sec., a variation is made the second time the desired key is pressed.

**EN** In this programmable thermostat status, some operating functions (the most commonly used ones) may be quickly activated without being obliged to access the more specific menus:



**Temporary override operation** (see complete description in par.10.2.1.A)

Press the ▲ or ▼ key to activate temporary override (pausing the current program): the current symbol  and Set temperature start flashing.

Press ▲▼ keys to set the **desired independent temperature set point**; after 4 sec. or by pressing the **OK** key **h 01** (default) is displayed, they keys turn into ◀▶ and it is possible to set how long the temporary override operation must last: 1h or from override activation time to midnight at the latest (the digits corresponding to the set hours start flashing).


**At the end of the set number of hours, the programmable thermostat will resume normal operation from the program running before the temporary override.**

It is however possible to quit the temporary override by pressing the **back** key.

**Note:** in the above condition with ◀▶ keys displayed press **OK** for 4 sec. to activate directly **override operation «Permanent override»** (see complete description in paragraph 10.2.1.B).


To quit **«Permanent override»** press the **OK** key or see menu procedure in paragraph 10.2.1.C.

**Program pause for household cleaning** (see complete description in par. 10.2.2.)

Press the  key to switch off the connected user for a max 3-hour period during which the programmable thermostat will enter antifreeze mode (t\*).).

After 3 hours the programmable thermostat resumes the interrupted program.

To reactivate the interrupted program before the 3 hours elapse, press **«back»**: the word «CLEANING» disappears.

**Note:** in the above condition «CLEANING», if you press the  key for 4 sec. the programmable thermostat is turned OFF with consequent **«System switch off»** (see complete description in paragraph 10.3).

To quit the programmable thermostat OFF condition briefly press the  key .

## 8 - STRUCTURE OF THE MAIN MENU (use and configuration)

### Available Menu structure:

#### ① SET TEMP

(change Set temperature points)

for winter mode 🔥:

- **t1** (comfort)
- **t2** (pre-comfort)
- **t3** (economy)
- **t\*** antifreeze

for summer mode ❄️:

- **t1** (comfort)
- **t2** (pre-comfort)
- **t3** (economy)

#### ② PROFILE

- **OVERRIDE** (temporary or permanent override)
- **CLEANING** (pausing the current program for household cleaning)
- **HOLIDAY** (pausing the current program for a holiday period)
- **OFF** (programmable thermostat switch off/on)

#### ③ PROGRAM

(display, change, copy programmed time profiles)

- **P01** weekly winter program 🔥
- **P02** weekly winter program 🔥
- **P03** weekly summer program ❄️
- **P04** weekly summer program ❄️

#### ④ USER PASSWORD

- **USER PASSWORD** (set user password)

#### ⑤ CONFIGUR

(installer or skilled user menu)

- **LANGUAGE** (menu language selection)
- **SEASON** (Winter or Summer mode)
- **TIME** (setting of current date, hour, minutes and daylight saving/standard time change)
- **RULE** (selection of temperature control mode)
- **UNIT** (selection of temperature unit of measure °C/°F)
- **OFFSET** (correction of detected room temperature)
- **BLOCKS** (it lets you limit the value of set temperature points)
- **PROBE** (setting a remote temperature probe)
- **INPUT** (setting an external contact for remotely enabling / disabling the programmable thermostat)
- **PUMP ON** (disabling / enabling the descaling function)
- **CONTRAST** (to change display contrast)
- **BACKLIGHT** (to enable/disable display backlighting)
- **PASSWORD** (to restrict the use of user and/or installer functions of the programmable thermostat)
- **RESTORE** (RESET operation)

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*The Menus are arranged in sequential order*

## 9 - ACCESS TO MENU

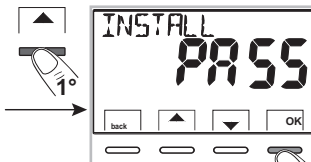
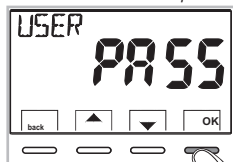
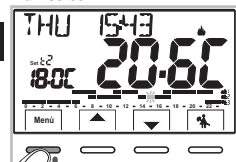
From the normal programmable thermostat operation press the **Menu** key to access the first available menu.



Or, if a secret user and/or installer access code **has been previously entered**, follow the steps below to access the user or installer menus

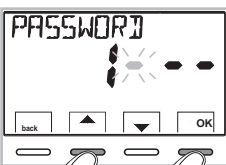
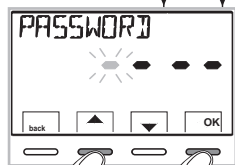
main screen

with the user and installer password



EN

with user password only

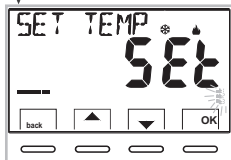


password entry example



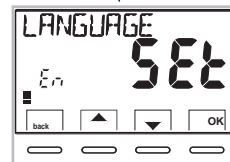
Err is displayed for a few seconds after pressing the **OK** key to indicate incorrect password.

no password entered



the 1st user menu is accessed after entering the user password (see next paragraph)

the 1st **CONFIGUR** menu item is accessed after entering the installer password (see par 11.1)



The ▲▼ keys are used to scroll through the menus: press **OK** to enter the selected menu, press **back** to go back to the previous item. Settings in the menus must be confirmed by pressing the **OK** key where required, otherwise, after 3 minutes have elapsed, the programmable thermostat goes back to normal stand-by operation and changes will not be saved.

# 10 - USER MENU

## 10.1 - «SET TEMP» Menu modification of SET temperatures

In the event the factory Set temperatures:

**🔥 for winter**  
 Operating boiler with room temperature lower than:  
**t1 = 20,0 °C (68.0 °F)**  
**t2 = 18,0 °C (64.4 °F)**  
**t3 = 15,0 °C (59.0 °F)**  
**t\* = 6,0 °C antifreeze**

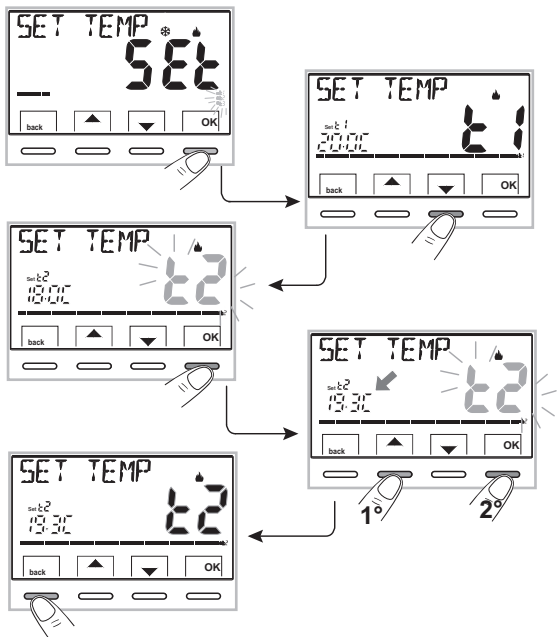
**❄️ for summer**  
 Air conditioner operating with room temperature higher than:  
**t1 = 24,0 °C (75.2 °F)**  
**t2 = 27,0 °C (80.6 °F)**  
**t3 = 33,0 °C (91.4 °F)**

should not satisfy your requirements, they may be modified at will, from +5 °C to +37.7 °C (+41.0 °F ÷ 99.9 °F).

- 1- Through the key path **Menu ->** Display menu **SET TEMP SET** and confirm with **OK**.
- 2- Scroll with keys **▲ ▼** (sequentially) until displaying the SET temperature level (winter or summer) to be modified and confirm with **OK**.
- 3- Set with keys **▲ ▼** the new temperature set point and confirm with **OK**.
- 4- Choose with **▲ ▼** keys another temperature level to be modified or press the **back** key **twice** to go back to normal timer thermostat operation.

**To disable antifreeze temperature t\*, go below +5.0 °C (41.0 °F).**

In the presence of max and min. temperature locks (see paragraph 11.8) it is not possible to set a **Set t** higher or lower than the entered locks. The display will signal impossibility to perform the operation by displaying **LOCK**.



**Attention!** The programmable thermostat allows temperature values that satisfy the following conditions:  
**Winter:** t1 greater than or equal to t2 greater than or equal to t3 greater than or equal to t\* ❄️  
**Summer:** t3 greater than or equal to t2 greater than or equal to t1

## 10 - USER MENU

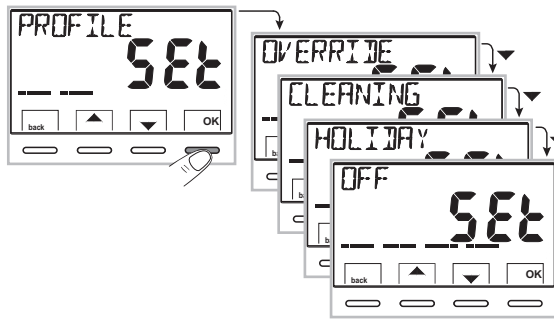
### 10.2 - Programmable thermostat «PROFILES» menu

1- Display the main menu **SET PROFILE** and confirm with **OK**.

2- Select with keys ▲▼ the desired profile among available options:

- **SET OVERRIDE** (temporary or permanent override)
- **SET CLEANING** (pausing program in use for cleaning)
- **SET HOLIDAY** (pausing program in use for a holiday period)
- **OFF Set** (programmable thermostat switch off/on)

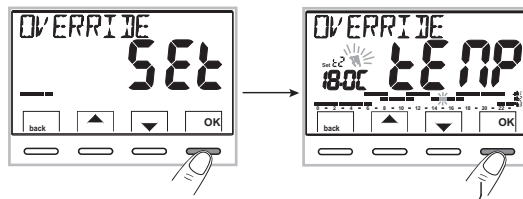
3- Confirm the selected item by pressing **OK**.



#### 10.2.1 - OVERRIDE OPERATION

Two override operating modes are possible **temporary** or **permanent** with a pause in the current program.

Both overrides have their own modifiable set temperature and completely independent from the current program.

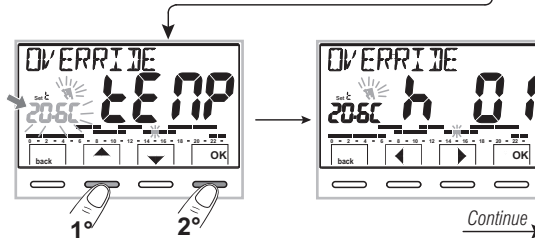


##### 10.2.1.A - Temporary override operation

1- Through the key path **Menu -> SET PROFILE -> SET OVERRIDE**, select item **TEMP OVERRIDE** and confirm with **OK**: the symbol  and the independent temperature **Set point** flash.

2- The desired temperature Set point may be set with the ▲▼ keys; wait 4 sec. or confirm by pressing **OK**.

3- **h 01** (default) and keys ◀▶ will be displayed.



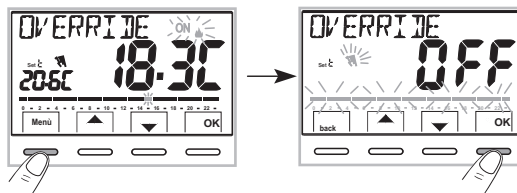


## 10 - USER MENU

### 10.2.1.C - Disabling permanent override operation

To go back to automatic operation from program, through the path: **Menu** button -> **SET PROFILE** -> display item **OVERRIDE OFF**, confirm by pressing **OK**.

The temperature scale will be displayed and the relevant Set points of the current day, according to the program in use before permanent override operation was enabled.



EN

### 10.2.2 - PAUSING THE CURRENT PROGRAM FOR HOUSEHOLD CLEANING

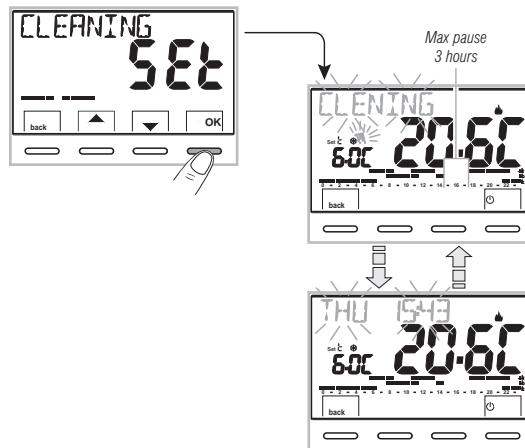
1- From normal programmable thermostat operation, through the path **Menu** -> **SET PROFILE** ->, display the item **SET CLEANING** confirm by clicking **OK**.

2- The connected user will switch off for a max 3-hour period from the current time, during which the programmable thermostat will enter antifreeze mode (t❄️).

Enabling this function is shown by the word «**CLEANING**» alternating with current day and time on the display. After 3 hours the programmable thermostat returns to the interrupted program.

To reactivate the interrupted program before the 3 hours have elapsed, press **back** or **⏪** : the word «**CLEANING**» disappears.

**Note:** in the event antifreeze temperature has been permanently disabled or in "Summer" operation, the connected user (e.g. boiler or air conditioner) will remain disabled for 3 hours maximum.



With enabled **CLEANING** function it will be possible to disable the timer thermostat «OFF» (see paragraph 10.3) by keeping **⏪** pressed for 4 seconds.

## 10 - USER MENU

### 10.2.3 - HOLIDAY PROGRAM *(e.g.: absence for holidays)*

This program is useful in the event one should need to leave the house for several days (temperature control pause); your habitual program in use (winter or summer) will be re-enabled at the end of the period set with the **HOLIDAY** program, so you may find the desired temperature on your return.

All the settings required by the **HOLIDAY** program must be confirmed by pressing **OK**, otherwise the programmable thermostat goes back to normal operation after 3 minutes have elapsed and the modifications will not be stored.

EN

Through the button path **Menu** -> **SET PROFILE** -> select the item **SET HOLIDAY** then press **OK**.

The **HOLIDAY** program will adopt the «Winter ♣» or «Summer ☼» season of the program in use.

#### Holiday start setting «OUT» (leaving the home)

- 1- The current month flashes on the display.
- 2- With the keys ▲▼, set the month «OUT» when you wish to enable the **HOLIDAY** program (leave the home); confirm by pressing **OK**.

⚠ *It is not possible to select a month prior to the current one.  
Up to 12 months after the current one may be set.*

- 3- The current day flashes on the display.
- 4- With keys ▲▼ set the day «OUT» when you wish to enable the **HOLIDAY** program (leave the home).

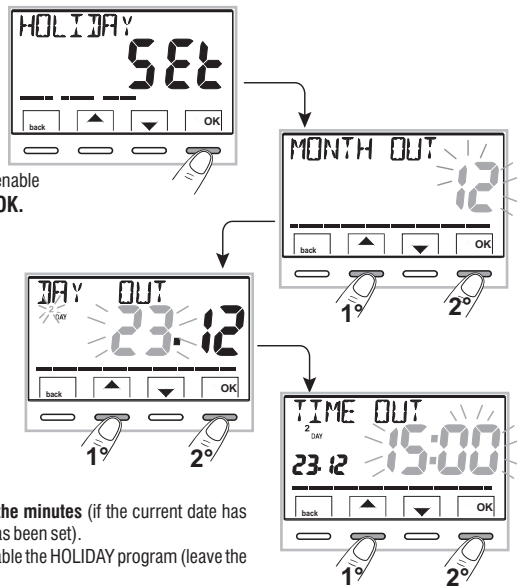
ⓘ *the day of the week will be updated automatically based on the set month and day.*

- 5- confirm by pressing **OK**.

⚠ *It is not possible to select a day prior to the current day.*

- 6- The current time flashes on the display rounded by zeroing the minutes (if the current date has been set) or the time 0:00 (if another program activation date has been set).

With the keys ▲▼, set the time «OUT» when you wish to enable the **HOLIDAY** program (leave the home); confirm by pressing **OK**.



continues on the next page

## 10 - USER MENU

### Setting end of holidays «IN» (coming back home)

The display shows the **IN** page where to enter when the program countdown must end and normal temperature control of the programmable thermostat should resume (according to the original program).

EN

- 7- The month previously set in the OUT function flashes on the display, use keys ▲▼ to set the month when you wish to end the countdown (coming back home); confirm by pressing **OK**.



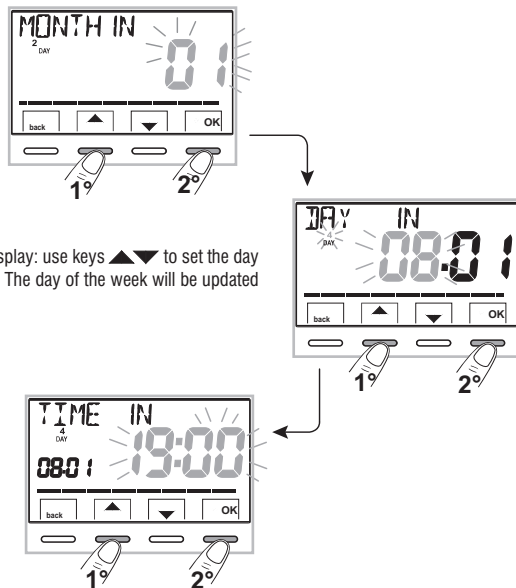
*It is not possible to select a month **prior** to the one set in the **OUT** function.*

*It is possible to **move forward** by 12 months at the most with respect to the month set in the **OUT** function.*

- 8- The day previously set in the OUT function flashes on the display: use keys ▲▼ to set the day when you wish to end the countdown (coming back home). The day of the week will be updated automatically based on the set month and day. Confirm by pressing **OK**.

- 9- The display shows **the time set in OUT + 1h** flashing rounded with minutes zeroing (if the current date is set in OUT) or time **00:00** (if another date has been set in OUT or IN).  
With keys ▲▼, set the time when you wish to disable the HOLIDAY program (come back home) and confirm by pressing **OK**.

The display goes back to stand-by mode.



*settable: minimum 1 hour and maximum 8759 hours (corresponding to 365 less 1h)*

## 10 - USER MENU

Upon completing data entry, two different views may be displayed (depending on the data entered):

### A) OUT Date the same as the current one

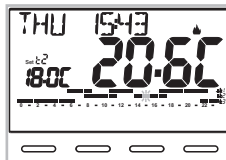


The programmable thermostat starts the countdown (e.g. in the figure: 388 hours) until exhausting the programmed hours; in WINTER mode the connected user will only be activated if the room temperature should go below the Set antifreeze temperature point (default 6.0 °C). At the end of the countdown the HOLIDAY program will re-activate your usual program.

### B) OUT Date after the current one

The programmable thermostat goes back to the program running before entering the data in the HOLIDAY program, pending its activation.


The screen of the HOLIDAY program will appear on the display for 2 seconds every minute as a reminder that it is in **stand-by**.




Normal operation screen



display for 2 seconds every minute

-  To cancel the HOLIDAY program with postponed activation, through the path **Menu -> SET PROFILE ->** select item **SET HOLIDAY** confirm with **OK**; press **back** twice to quit.

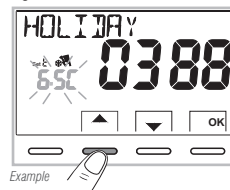
When the **stand-by time** has elapsed, the programmable thermostat starts the countdown (example in figure: 388 hours) until exhausting the programmed hours; in WINTER mode the connected user will only be activated if the room temperature should go below the Set antifreeze temperature point (default 6.0 °C). At the end of the countdown the HOLIDAY program will re-activate your usual program.

 In the event the antifreeze temperature has been permanently disabled (paragraph 10.1) or in "SUMMER" operation, the HOLIDAY program will keep the connected user disabled (e.g. boiler or conditioner) throughout the whole programmed time.

When the **HOLIDAY** program is running:

- press **▲ ▼** keys to change the independent antifreeze temperature Set point (unless previously disabled);
- press **OK** to **cancel** the HOLIDAY program before the end of the programmed hours.

The programmable thermostat resumes normal operation re-enabling your usual program.



Example

EN

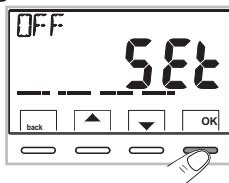
## 10 - USER MENU

### 10.3 - OFF Menu (disabling the programmable thermostat)

This setting has the purpose of locking programmable thermostat functions when heating or cooling must remain off.


EN

1- Through the button path **Menu -> SET PROFILE ->**, select item **OFF SET** and confirm with **OK** to disable the programmable thermostat.

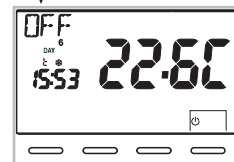


2- The display shows **OFF**, to indicate that the programmable thermostat is disabled and all functions are inactive; the display only shows day, current time, room temperature reading and (in WINTER mode) the antifreeze protection symbol **t\***.

*i* in WINTER mode with antifreeze temperature disabled or in Summer mode, the **t\*** symbol will not be visible.

*i* in the event of low batteries, the symbol  will flash on the display.

3- Press key  to reactivate the programmable thermostat and go back to the previously set program.



# 10 - USER MENU

## 10.4 - PROGRAM Menu (list of pre-set programs, display, change, copy programmed time profiles)

### 10.4.1 - LIST OF PRE-SET PROGRAMS

The box shows factory-entered programs with relevant time profiles: P01 and P02 WINTER; P03 and P04 SUMMER.

In the event none of the pre-set programs should meet your needs, they may be modified (see next paragraphs).

#### Programs with days, times and temperature levels on the 24h scale.

**Temperature levels:** **t1** = Comfort **t2** = Activity (pre-comfort) **t3** = Economy (saving)  
 + **t\*** = Antifreeze in Winter mode (if present the digits are not visible). Note: in Summer mode the cooling system is disabled

**program: P01 Winter mode** 🔥 (heating)

for every day of the week

times	t1	t2	t3
06,30 ÷ 08,30			
11,30 ÷ 14,00			
17,30 ÷ 22,30			
08,30 ÷ 11,30			
14,00 ÷ 17,30			
00,00 ÷ 06,30			
22,30 ÷ 24,00			

**program: P02 Winter mode** 🔥 (heating)

from Monday to Friday

times	t1	t2	t3
06,30 ÷ 08,30			
17,30 ÷ 22,30			
16,30 ÷ 17,30			
00,00 ÷ 06,30			
08,30 ÷ 16,30			
22,30 ÷ 24,00			

from Saturday to Sunday

times	t1	t2	t3
06,30 ÷ 08,30			
11,30 ÷ 14,00			
17,30 ÷ 22,30			
08,30 ÷ 11,30			
14,00 ÷ 17,30			
00,00 ÷ 06,30			
22,30 ÷ 24,00			

**program: P03 Summer mode** ❄️ (cooling)

from Monday to Friday

times	t1
00,00 ÷ 01,00	
18,00 ÷ 24,00	

from Saturday to Sunday

times	t1	t2
14,00 ÷ 20,00		
00,00 ÷ 01,00		
20,00 ÷ 24,00		

**program: P04 Summer mode** ❄️ (cooling)

for every day of the week

times	t1	t2	t3
00,00 ÷ 01,00			
18,00 ÷ 24,00			


## 10 - USER MENU

### 10.4.2 - PROGRAM SELECTION

1- Through the path **Menu** button -> with buttons ▲▼, select item **PROGRAM Set** e confirm with **OK**.

EN

2- The programs in the memory (P01 🔥, P02 🔥, P03 ❄️, P04 ❄️) may be scrolled through with the ▲▼ buttons.

 If a program has been previously modified by the User, only the first day of the week will be displayed (DAY 1 = Monday) with the word **USER**, indicating a modification has been made on the factory pre-set program.

3- press **back** twice to go back to normal programmable thermostat operation;

4- or press **OK** to opt to display the settings of the desired program.

### 10.4.3 - DISPLAY SETTINGS OF THE SELECTED PROGRAM

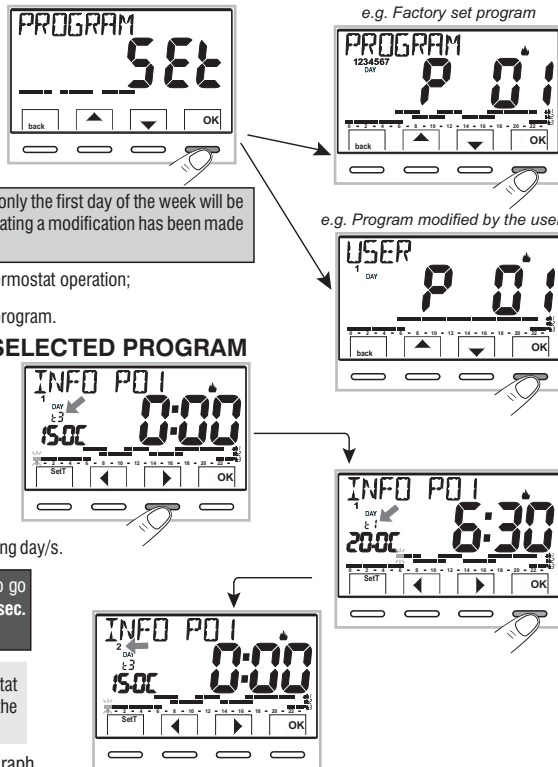
1- after confirming with OK (described above under item 4), the display shows **INFO**, the day profile 1 (Monday), the flashing digits at 0:00 and the relevant temperature level: the program may be scrolled through with ◀▶ keys (switched to left and right), by half hours, viewing times and temperatures.

2- Press **OK** once or more to view the time profile of the following day/s.

**Important!** in this and subsequent conditions it is possible to go back to program selection by pressing the **SetT** button for 4 sec. (par. 10.4.2) without saving any setting.

3- **Keep OK pressed for 4 sec.** the programmable thermostat resumes normal operation following the profile of the chosen program.

Or modify the selected program as per the following paragraph.

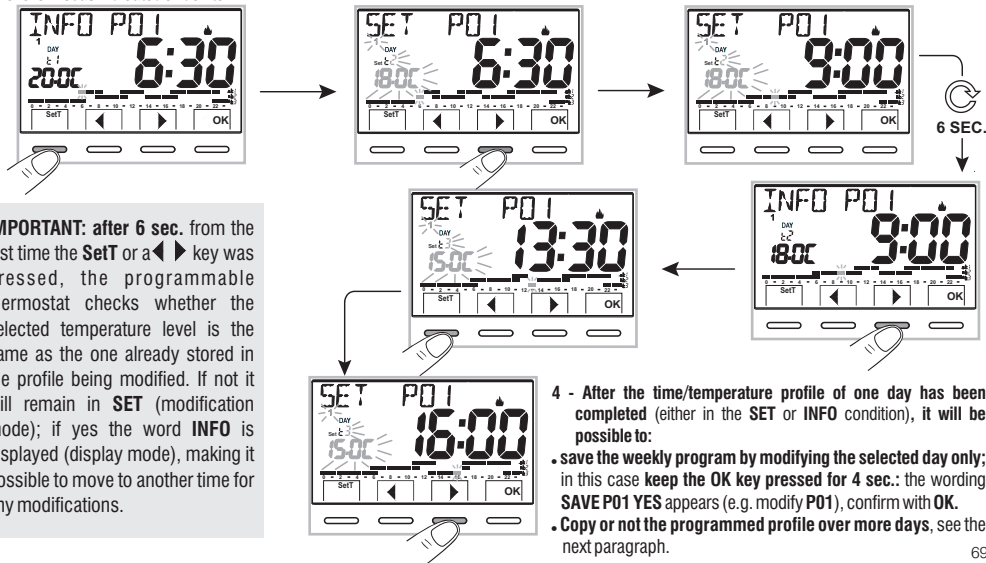


## 10 - USER MENU

### 10.4.4 - MODIFY PROGRAM

There are 4 available programs, all freely programmable for every hour of the day (with half hour steps) and differently for every day of the week, on 3 different temperature levels: **t1** comfort (upper digits), **t2** activity (intermediate digits), **t3** economy (lower digits), plus one level of antifreeze temperature **t\*** for the winter mode (digits not visible), or cooling system switched off for the summer mode.

- Should you wish to modify a program, from the **INFO** screen go to the desired day and scroll through the profile with the ◀▶ keys until displaying the time you wish to modify, in 30-minute steps (see previous paragraph).
- Press once or more the **SetT** key to select which new temperature level you wish to assign to the desired time: the modification is effective. *Set point rotation starts from the set **t x**, according to the diagram **t1, t2, t3, t\***. The Set point in question and the digit of reference flash, the words **INFO POX** (PO1 in this case) will change to **SET POX** (modification mode).* Note: if you go back to the original Set point (level) no modification will take place.
- By pressing the ◀▶ keys the **new selected Set point** may be dragged to the next (or previous) half hour and/or hours; modify the temperature level or not as indicated under item 2.



**IMPORTANT:** after 6 sec. from the last time the **SetT** or a ◀▶ key was pressed, the programmable thermostat checks whether the selected temperature level is the same as the one already stored in the profile being modified. If not it will remain in **SET** (modification mode); if yes the word **INFO** is displayed (display mode), making it possible to move to another time for any modifications.

4 - After the time/temperature profile of one day has been completed (either in the **SET** or **INFO** condition), it will be possible to:

- save the weekly program by modifying the selected day only; in this case **keep the OK key pressed for 4 sec.:** the wording **SAVE PO1 YES** appears (e.g. modify PO1), confirm with **OK**.
- Copy or not the programmed profile over more days**, see the next paragraph.

## 10 - USER MENU

### 10.4.5 - COPY OF THE MODIFIED DAY

After completing the modification of the temperature/time profile of one day (see previous paragraph) it is possible to copy it over one or more days. Press **OK**, confirmation will be asked whether to copy the modification over other days (**LOAD YES/LOAD NO**): choose the desired option with the **▲▼** keys and confirm with **OK**.

If **LOAD NO** is confirmed, no copy operation will be performed, the display will go back to the **INFO** screen showing the day after the modified one.

If **LOAD YES** is confirmed, you will be asked what other days to copy the modification: press **OK** to confirm copying over the indicated day (e.g. TUESDAY) moving to the next day, whereas if you press **▶**, you will skip the next day and exclude it from copying. The sequence will be requested until completing the week, signalled by the wording **END**.

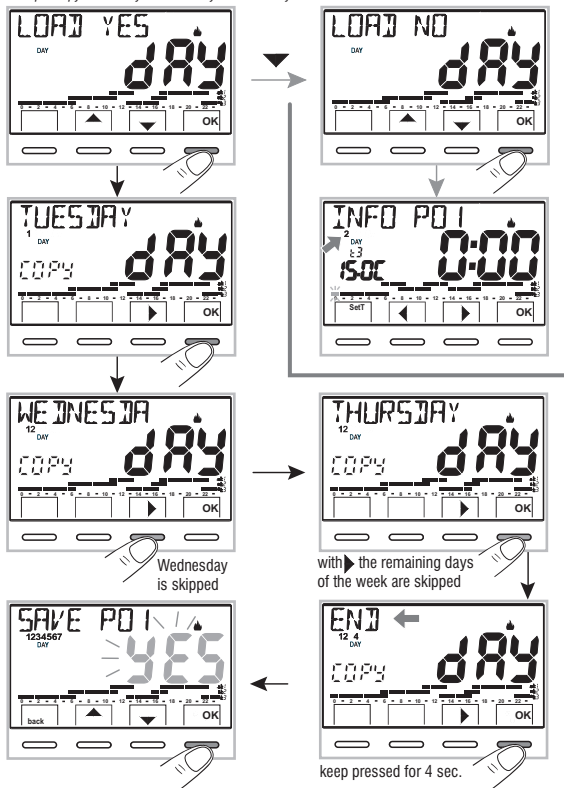
*In this condition you may:*

- Press **▶** to scroll through the week again, (press **OK** to disable a day you have previously selected by mistake).
- Press **OK** to confirm copy of the selected days and go back to the **INFO** screen displaying the first non modified day.
- Keep **OK** pressed for 4 sec.: the words **SAVE P01 YES** are displayed (e.g. modify **P01**); confirm with **OK**, the modified weekly program will be saved.

The programmable thermostat goes in normal operation (stand-by) following the new temperature/time profile.

If you do not wish to save, select with the **▲▼** keys **SAVE P01 NO** and confirm with **OK**, to go back to the **INFO** screen of the first subsequent non modified day.

example copy of Monday onto Tuesday and Thursday



## 10 - USER MENU

### 10.5 - USER PASSWORD Menu

#### 10.5.1 - Entering the user password

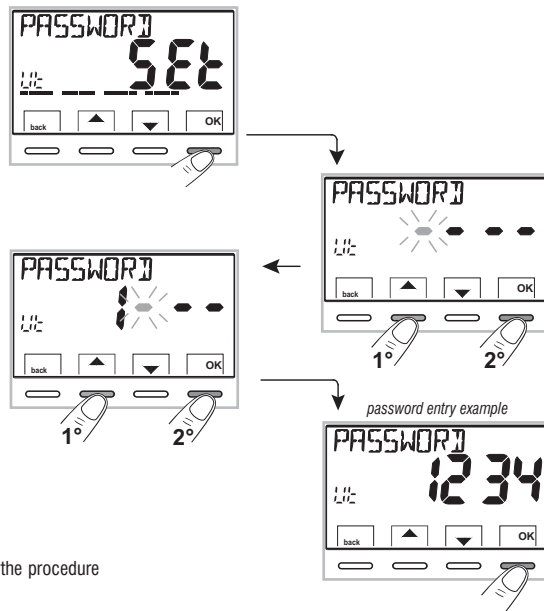
No code is set in the factory configuration.

- 1- Through the path **Menu ->**, select item **USER PASSWORD SET ->** and confirm with **OK**.
- 2- Use the **▲ ▼**, keys enter 4 digits (dashes not included) between **0000** and **9999**, individually confirm them with **«OK»**.

The programmable thermostat enters normal operation

**From now on, the password will be required when the menu key is pressed.**

Certain quickly activated functions may be used in any case from the normal operation condition (stand by) of the programmable thermostat (see chapter 7).



#### 10.5.2 - Password modification or cancellation

Press **MENU**, and enter the previously set password; follow the procedure described above to access the User PASSWORD SET menu:

- **set 4 hyphens (- - - -)**, the password will be cancelled,
- **set another number and it will be modified.**

# 11 - CONFIGURATION MENU (installer)

## 11.1 - Access to configuration menu

**ATTENTION:** access to the configuration menu is recommended for the installer or experienced users since the modification of some settings might affect correct system operation.

Through the **Menu** -> *path* select the **CONFIGUR SEI** menu and confirm with **OK**: access the 1st item **LANGUAGE SEI** of the menu (see chapter 8 for the list of available items).

EN



If only an installer password was entered the display requests entering the 4 digits, which may be selected using the ▲▼ keys; individually confirm them with «OK».

## 11.2 - CHANGE SET LANGUAGE

When **LANGUAGE SEI** is displayed, press **OK** to confirm.

- Use the ▲▼ keys to select the desired language scrolling through available ones.
- Confirm by pressing **OK**.

The selectable languages are: ITALIAN = *It* (default), ENGLISH = *En*, FRENCH = *Fr*, GERMAN = *dE*, SPANISH = *ES*.

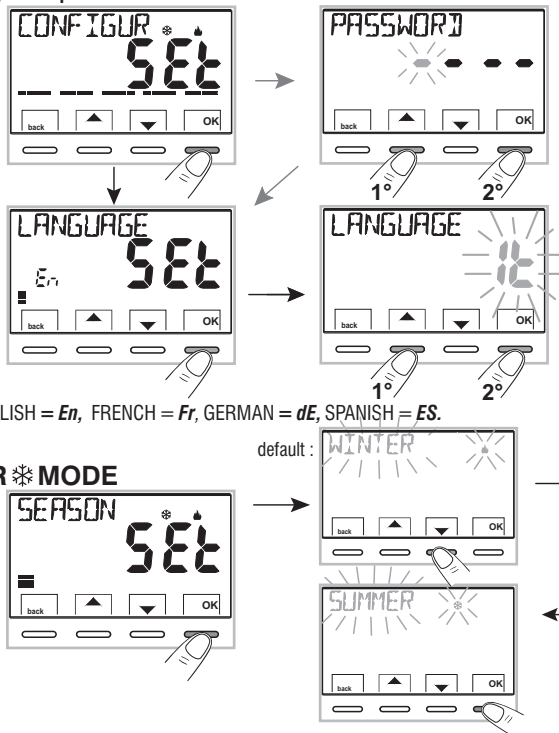
- Press the «back» key to exit.

## 11.3 - SET WINTER ❄️ OR SUMMER ☀️ MODE

The season may be changed by selecting an already set program for the other season (see par. 10.4.1/10.4.2), or through the **Menu** -> **CONFIGUR SEI** -> *path* under item **SEI SEASON** confirm with **OK**. Select with the ▲▼ keys the WINTER (heating) or SUMMER (cooling) mode and confirm with **OK**.

In this case the last program used for the season about to be set will be automatically selected.

Press the «back» key to exit.



# 11 - CONFIGURATION MENU (installer)

## 11.4 - ENTERING/CHANGE: YEAR - MONTH - DAY - CURRENT TIME - AUTOMATIC DAYLIGHT SAVING / STANDARD TIME CHANGE

**IMPORTANT:** in order to be able to **WORK PROPERLY**, the programmable thermostat requires you to enter or update the **current** year, month, day, hour and minutes, automatic daylight saving/standard time change and vice versa (default EURO=Italy and central Europe).

- a) The first time the programmable thermostat is switched on after confirming EN for the desired language.
- b) From normal programmable thermostat operation, using the key sequence **Menu -> CONFIG SET**: selecting the option **TIME SEt** and confirming with **OK**; it will be possible to **modify** at any time: the **current** date, hour and minutes, and set the desired automatic hour change function.

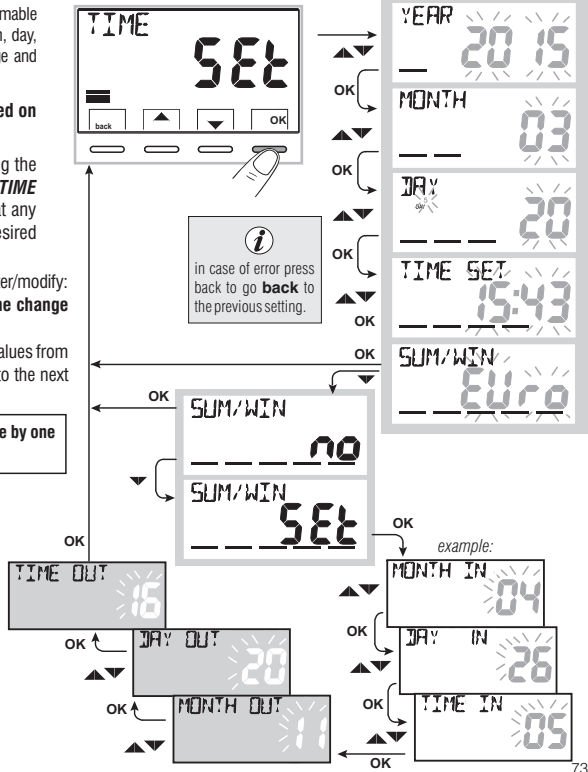
In both of the above cases, in sequence, it will be requested to enter/modify: **Year -> Month -> Day -> Hour minutes** (time set) -> **Time change** (see possible selections in the table).

Use the **▲▼** keys to set (if required) the current or desired values from time to time; at the end of each selection press **OK** to move to the next item.

**i** Press the **▲▼** impulse keys to increase or decrease by one unit, **prolonged pressure activates rapid scrolling**.

When **TIME SEt** is displayed, press «back» to quit.

SUM/WIN Possible selections on the display	Summer switch +1h (daylight saving time)	Winter switch -1h (standard time)
(default) <b>EUro</b> (Central Europe UTC+1)	Last Sunday in March	Last Sunday in October
<b>no</b>	None	None
<b>SEt</b>	<b>freely programmable IN</b> Month / Day / Time	<b>freely programmable OUT</b> Month / Day / Time



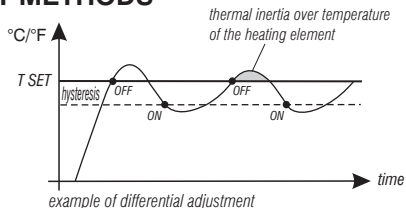
# 11 - CONFIGURATION MENU (installer)

## 11.5 - TYPE TEMPERATURE ADJUSTMENT METHODS

The programmable thermostat is factory set to work in **THERMAL DIFFERENTIAL** mode **ON/OFF** with a preset thermal differential value (Hysteresis) of 0,3 °C.

Note: adjustable from 0,2 °C to 1,2 °C (from 0,3 °F to 2,1 °F).

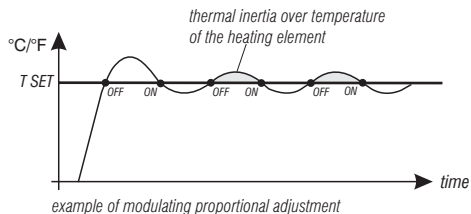
The hysteresis value must be set according to the system's thermal inertia; a low value is recommended for systems with radiators made of e.g. cast iron and a high value for systems with fan coils.



**As opposed** to the thermal differential, the temperature can be adjusted **MODULATING PROPORTIONALLY (PROP)** setting cycles from 7 to 20 minutes (default 10 minutes).

This system maintains the desired temperature more stable, whilst increasing the user's comfort sensation and saving on energy consumption.

A long cycle is recommended for systems with high thermal inertia (cast iron radiators, floor systems) and a short cycle for systems with low thermal inertia (fan coils).

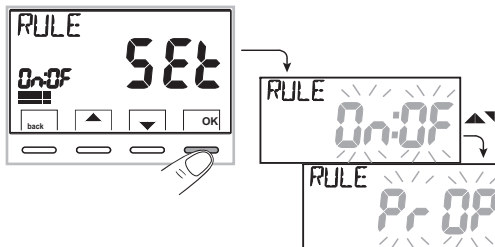


### 11.5.1 - SELECTION OF THE TEMPERATURE ADJUSTMENT MODE (DIFFERENTIAL ON/OFF OR PROPORTIONAL)

Through the path **Menu-> CONFIGUR SET->**, select item **RULE SET**. Press **OK** to confirm.

It will be possible to select temperature adjustment mode between **Thermal differential (On:OFF)** factory setting or **Modulating proportional (PrOP)** operation.

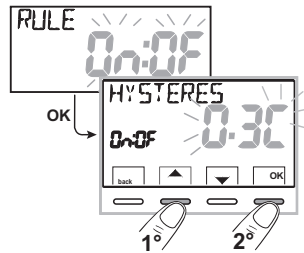
Use the **▲▼**, keys to select the desired temperature adjustment mode. After making your choice press **OK** to confirm and display the screen to set **HYSTERESIS** if you have opted for **On:OFF**, or to set the **PERIOD** if you have opted for **PrOP** (see next paragraphs: 11.5.2 and 11.5.3).



# 11 - CONFIGURATION MENU (installer)

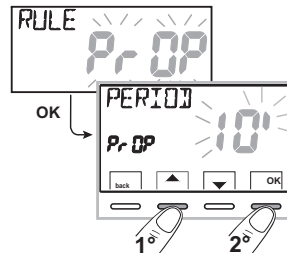
## 11.5.2 - Setting hysteresis for thermal differential ON-OFF

- Through the path *Menu -> CONFIGUR SET -> RULE SET -> select On:OFF*, then press **OK**.
- With the keys ▲▼ enter the desired hysteresis value (values may be set from 0.2°C to 1.2°C / from 0.3°F to 2.1°F - default 0.3°C/0.4°F).
- Press **OK** to confirm.
- Press the **back** key to exit.



## 11.5.3 - Setting period duration for modulating Proportional

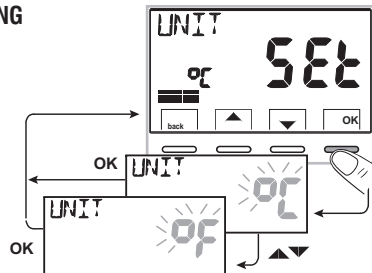
- Through the path *Menu -> CONFIGUR SET -> RULE SET -> select PrOP*, then press **OK**.
- With the ▲▼ keys enter the duration of the desired period (settable from 7 to 20 minutes, default 10 min.).
- Press **OK** to confirm.
- Press the **back** key to exit.



## 11.6 - CHANGE UNIT OF MEASURE FOR TEMPERATURE READING

The programmable thermostat is pre-set in the factory to display temperatures in degrees Centigrade (Celsius), it is possible to switch to the Fahrenheit scale or vice versa with the following procedure:

- Through the path *Menu -> CONFIGUR SET -> select UNIT SET* then press **OK**.
  - Select the desired unit of measure with the ▲▼ keys: °C or °F, then press **OK** to confirm.
- All temperature set points will be updated according to the new scale.
- Press the **back** key to exit.



## 11 - CONFIGURATION MENU (installer)

### 11.7 - CORRECTION OF ROOM TEMPERATURE READING

If for any reason the programmable thermostat must be installed in a position where the measured room temperature might be affected (e.g. perimeter wall which is on average colder in winter and warmer in summer than the rest of the dwelling) the device has 2 separate parameters to adjust the room temperature measured in the **Winter and Summer modes**.

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- Through the path **Menu -> CONFIGUR SET ->** select item **OFFSET Set**. Press **OK** to confirm.

#### **OFFSET for winter mode (▲)**

The display alternates the empty fields to be inserted (- - -) with the current temperature value.

- Use the ▲ key to enter positive values, the ▼ key to enter negative values (sign «-»).


**Possible correction -3.0 °C (-5.4 °F) ÷ 3.0 °C (5.4 °F)**

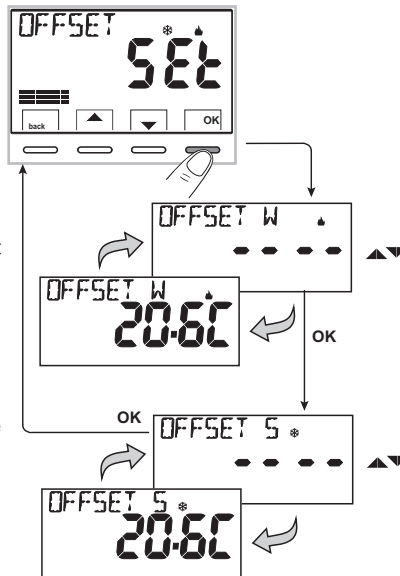
default 0.0 °C/°F = - - - -

At each selection the display will show the new correction value (e.g.: 0.6°C) alternated to the detected temperature value (e.g.: 21.2°C).

- After performing the correction press «OK».

The display shows the **OFFSET for the Summer mode (※)**; proceed with the correction as per the above procedure or press **back** to quit.

 to cancel any previously set temperature corrections take **OFFSET** back to - - - - .



### 11.8 - MAX AND MIN SET TEMPERATURE LOCK (Winter and Summer mode)

In certain programmable thermostat installations (public buildings, hotels, etc.) it might be useful to limit the maximum and minimum temperature set points. This avoids incorrect settings by unauthorised personnel (energy savings).

It is possible to limit (lock) the maximum, minimum or both temperature values settable on the programmable thermostat. The restriction may be applied either to the **Winter** or **Summer** mode.

# 11 - CONFIGURATION MENU (installer)

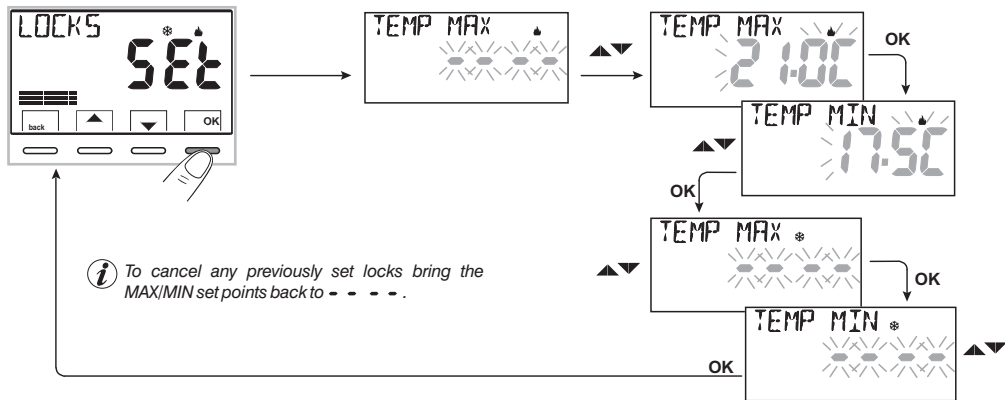
• Through the path **Menu -> CONFIGUR SET ->**, select item **LOCKS SET**. Press **OK** to confirm.

In a sequential manner it is possible to set maximum temperature locks (**t1 comfort**) and/or minimum (**t2\* antifreeze**) for the **winter mode** ▲ and/or maximum temperature (**t1 comfort**) and/or minimum (**t3 economy**) for the **Summer mode** \*.

If no locks have been entered yet, the display shows empty flashing fields (---).

- Use the ▲▼, keys to set the desired temperature lock values from time to time.
- Upon completing each setting press **OK** to confirm and move to the next lock item.

Press the **OK** impulse key to move to a different item. Press the **back** key to exit.



### General rule

If **Set temperature t1** (comfort) is **greater than the maximum entered lock**, it will level out with it.

If **Set temperature t2\* or t3** is **less than the minimum entered lock**, it will level out with it.

The following rule will apply to all other temperatures: WINTER (▲) =  $t1 > t2 > t3 > t2^*$  - SUMMER (\* ) =  $t1 < t2 < t3$

During programmable thermostat operation, the user may not set a **Set t** higher or lower than the max and min. locks entered. The display will signal impossibility to perform the operation by displaying **LOCK**.

The maximum and/or minimum locks will also be applied to **independent Set t** of the following programmable thermostat operation modes: temporary and permanent override, Holiday Program.

# 11 - CONFIGURATION MENU (installer)

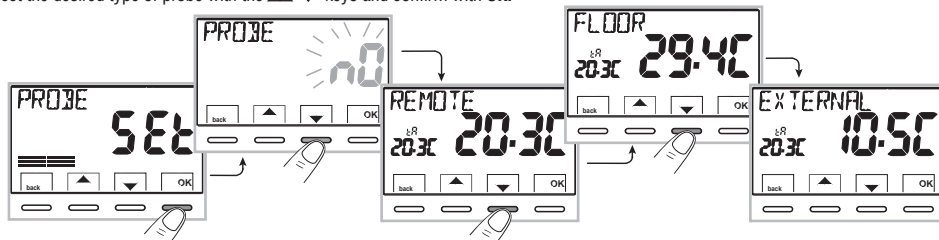
## 11.9 - PROBE MENU

In addition to the internal probe of the programmable thermostat, it is possible to connect to terminals 6 and 7 «AUX 1» (see wiring diagrams in ch. 5.4) a supplementary probe (optional) which may be set to read temperature in various modes.

• Through path **Menu -> CONFIGUR SET -> PROBE SET**, press **OK** to enter the menu. Selectable functions are as follows:

<b>PROBE NO</b>	The separate probe is not read, it is disabled (factory setting upon first witch on).
<b>REMOTE PROBE</b>	It measures the temperature of a room in replacement to the internal probe of the programmable thermostat.
<b>FLOOR PROBE</b>	It measures the floor temperature and switches off the connected load if it exceeds a certain set threshold. Room temperature control is managed by the internal programmable thermostat probe.
<b>EXTERNAL PROBE</b>	It measures the temperature outside the home without affecting internal room temperature control.

Select the desired type of probe with the ▲▼ keys and confirm with **OK**.



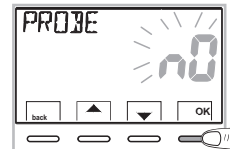
### Possible fault signals on the display concerning the separate probe

	4 flashing hyphens = programmable thermostat removed from the wall base
	Err flashing = interrupted probe or in short or no probe connected. Temperature control is suspended.
	Flashing beginning or end of scale value = the probe detects a higher or lower value than the operating range.

### 11.9.1 - NO CONNECTION TO SEPARATE PROBE

Should you wish to disable the previously active separate temperature probe and go back to using the standard internal one (default), follow this procedure: through path **Menu -> CONFIGUR SET -> PROBE SET ->** select item **PROBE n0** (NO) and press **OK** to confirm. Press the **back** key to exit.

Internal probe reading range: - 5.0°C ÷ +37.7°C (+ 23.0°F ÷ +99.9°F)



# 11 - CONFIGURATION MENU (installer)

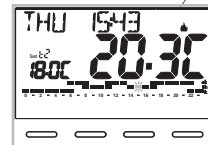
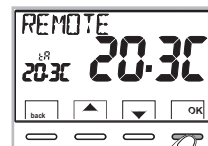
## 11.9.2 - SETTING SEPARATE REMOTE PROBE

This is a remote probe to detect temperature in a different room from the one where the programmable thermostat is installed, for instance in the event of unfavourable installation or in premises unsuitable to reading and adjusting the temperature. The remote probe has the same parameters and reading range as the internal probe. Reading range:  $-5.0^{\circ}\text{C} \div +37.7^{\circ}\text{C}$  ( $+23^{\circ}\text{F} \div +99.9^{\circ}\text{F}$ ).

It completely replaces the internal programmable thermostat probe and the product will control room temperature through this remote probe.

After connecting the remote temperature probe to the programmable thermostat, it may be activated through the path: **Menu key** -> **CONFIGUR Set** -> **PROBE SET** -> select item **REMOTE**.

Press **«OK»** to confirm. Press the **back** key to exit.



## 11.9.3 - SETTING FLOOR PROBE (over temperature protection function)

This is a separate and remote controllable temperature probe, buried in the screed of an underfloor heating system with radiating panels, to monitor the temperature and turn off the system in case the temperature read exceeds a pre-set threshold value.

After connecting the separate temperature probe to the programmable thermostat, it may be activated through the path **Menu key** -> **CONFIGUR SET** -> **PROBE SET** -> select item **FLOOR**.

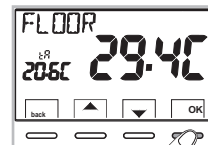
Confirm with the **OK** key.

Use the **▲▼**, keys to define the **desired** temperature threshold (e.g.  $35^{\circ}\text{C}$ )

Press **OK** to confirm. Press the **back** key to exit.

Floor probe reading range:  $+0.0^{\circ}\text{C} \div +60.0^{\circ}\text{C}$  ( $+32.0^{\circ}\text{F} \div +140.0^{\circ}\text{F}$ )

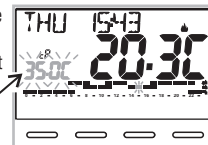
Exceeding the  $99.9^{\circ}\text{F}$  value (Fahrenheit scale) involves suppressing decimals



**The programmable thermostat displays and controls the room temperature detected by the internal probe:**

at the same time the separate probe also detects the floor temperature, which will be compared with the threshold set by the installer, to prevent this temperature from exceeding the safety threshold.

Should this occur the programmable thermostat will switch off the system even if **Set t** temperature is not reached; the display signals this condition by displaying the code **IP** and the set threshold value flashes.



*Set threshold exceeded warning. The temperature control system is disabled.*

## 11 - CONFIGURATION MENU (installer)

### 11.9.4 - SETTING SEPARATE EXTERNAL PROBE

This is an additional probe to read the temperature outside the dwelling (tE).

It does not have any home temperature control features, which are controlled by the internal programmable thermostat probe.

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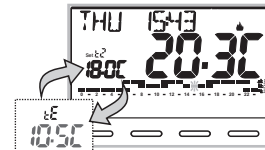
After connecting the external temperature probe to the programmable thermostat, it may be activated through the path: **Menu** key -> **CONFIGUR Set** -> **PROBE Set** -> select item **EXTERNAL**.

Press «**OK**» to confirm. Press the **back** key to exit.

External probe reading range: - 9.9°C + +60.0°C (+ 14.2°F + +140.0°F).

*Exceeding the 99.9°F value (Fahrenheit scale) involves suppressing decimals*

**Note:** *in stand-by mode, the display will alternate reading external temperature (tE) with the currently Set temperature value every 10 seconds.*



every 10 sec.

## 11.10 - CONNECTION TO EXTERNAL CONTACT FOR REMOTE PROGRAMMABLE THERMOSTAT SWITCHING ON/OFF



Before enabling any item of the «INPUT» menu listed below ensure you have connected an external contact to terminals 8 and 9 (AUX2)

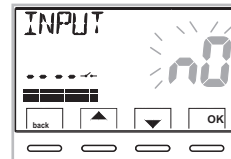
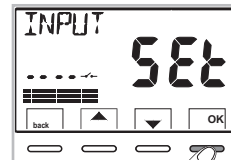
A remote device may be connected to the programmable thermostat (e.g. telephone programmer, hourly switch, switch) able to remotely enable/disable the programmable thermostat.

Through the path **Menu** -> **CONFIGUR Set** ->, select item **INPUT SET**.

Press **OK** to confirm.

Various operation modes may be selected depending on the type of contact free from potential (NO or NC) and type of device connected to the terminals **8** and **9** «**AUX 2**» (see par. 5.4 electrical connections):

- **INPUT n0** = Input exclusion (factory setting);
- **PHONE nC** = for «Normally Closed» contact of a telephone Programmer;
- **PHONE nA** = for «Normally Open» contact of a telephone Programmer;
- **DUTY nA** = for «Normally Open» contact e.g.: switch;
- **DUTY nC** = for «Normally Closed» contact e.g.: switch.



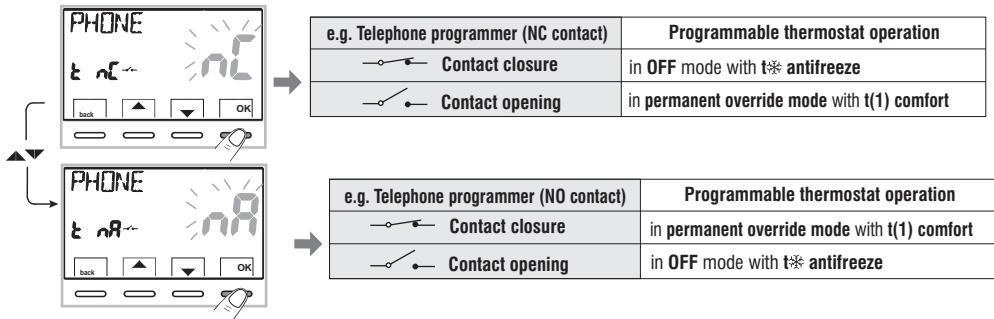
Note: to exclude the previously enabled input, select the above screen with the **▲▼** keys, confirming with the **OK** key. Press **back** to exit.

# 11 - CONFIGURATION MENU (installer)

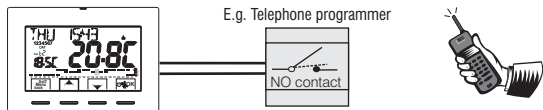
## 11.10.1 - ACTIVATION / DISABLING WITH A TELEPHONE PROGRAMMER

After connecting the Telephone programmer (optional) to the programmable thermostat or other control device, it will be possible to select the **nC (normally closed contact)** or **nA (normally open contact «NO»)** contact type setting on the telephone programmer.

Through the path: **Menu key -> CONFIGUR SET -> display item INPUT SET**, press **«OK»** and with keys **▲ ▼** choose item **PHONE nC** or **PHONE nA**. Press **«OK»** to confirm. Press the **back** key to exit.



### 11.10.1a - Example of remote programmable thermostat switching on/off, connected to a telephone programmer with «nA» contact (NO normally open).



- **Programmer contact closure** (change of state): **causes permanent comfort override** and displaying associated symbols/setpoints and the icon . After that it will be possible to change the operation mode on the spot by manually acting on the programmable thermostat keypad, even if the telephone programmer contact remains closed; at the first change the icon becomes steady to indicate the end of the telephone override status and displays contact status still closed.

- **Programmer contact opening** (change of state): **causes operation status override OFF** (par. 10.3 - Programmable thermostat disabling) with antifreeze function unless it is disabled; the display shows **OFF** (steady) and icon flashing, indicating incoming telephone override. After that it will be possible to go back to normal programmable thermostat operation by pressing the key, the icon will go out indicating the end of telephone override.

*Note: contact opening and closure controls are operative within 10 sec.*

## 11 - CONFIGURATION MENU (installer)

### 11.10.2 - «nA» Duty - for normally open contact (NO)

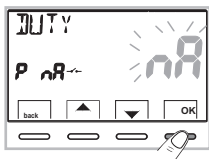
By selecting this function it is possible to connect a NO remote contact which upon closing sets the programmable thermostat in the **OFF** mode with antifreeze temperature  $t_{*}$ , unless it has been previously disabled.

**In this condition it will not be possible to act on the programmable thermostat keys to change operation status.**

Open the contact and the programmable thermostat resumes normal operation from the program active before overriding.

From path **Menu** key -> **CONFIGUR SET** -> **INPUT SET** -> select item **nA DUTY**.

Press «**OK**» to confirm. Press the **back** key to exit.



e.g. Switch	Programmable thermostat operation
<b>Contact closure</b>	in <b>OFF</b> mode with $t_{*}$ <b>antifreeze</b>
<b>Contact opening</b>	operation from running program

*Note: contact opening and closure controls are operative within 10 sec.*

### 11.10.3 - «nC» DUTY - for normally closed contact (NC)

**Attention:** do not enable the nC DUTY item prior to connecting a switch or other device that allows change of state from **OFF** mode to automatic operation (running program) and vice versa to terminals 8 and 9 (AUX 2).

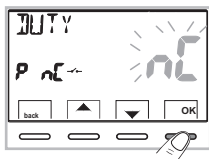
By selecting this function it is possible to connect a NC remote contact which upon opening sets the programmable thermostat in the **OFF** mode with antifreeze temperature  $t_{*}$ , unless it has been previously disabled.

**In this condition it will not be possible to act on the programmable thermostat keys to change operation status.**

Close the contact and the programmable thermostat resumes normal operation from the program active before overriding.

From path **Menu** key -> **CONFIGUR SET** -> **INPUT SET** -> select item **nC DUTY**.

Press «**OK**» to confirm. Press the **back** key to exit.



e.g. Switch	Programmable thermostat operation
<b>Contact closure</b>	operation from running program
<b>Contact opening</b>	in <b>OFF</b> mode with $t_{*}$ <b>antifreeze</b>

*Note: contact opening and closure controls are operative within 10 sec.*

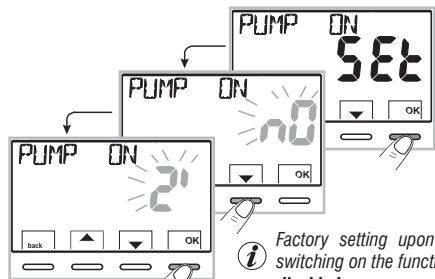
# 11 - CONFIGURATION MENU (installer)

## 11.11 - DESCALING CYCLE

If the function is activated, the programmable thermostat activates every day of the year at 12:00, for 2 minutes. It activates the controlled device (pump, valve etc.) to prevent scaling or jamming caused by prolonged inactivity.

*The programmable thermostat activates only if the connected load was never switched on in the previous 24 hours.*

From path **Menu key -> CONFIGUR Set -> PUMP ON Set ->** press «OK» and with the ▲▼ keys select the desired item: **PUMP ON n0** (NO) or **PUMP ON 2'**. Press **OK** to confirm. Press the **back** key to exit.

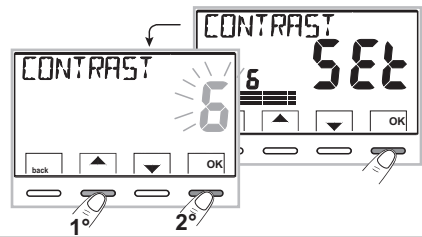


*Factory setting upon first switching on the function is disabled.*

## 11.12 - DISPLAY CONTRAST ADJUSTMENT

8 adjustment levels are available. Level 6 is set in the factory. From path **Menu key -> CONFIGUR Set ->** use ▲▼ keys to select item **CONTRAST Set**. Press **OK** to confirm.

Select the desired level with the ▲▼ keys. The contrast variation obtained will be visible at every selection. Press **OK** to confirm. Press the **back** key to exit.

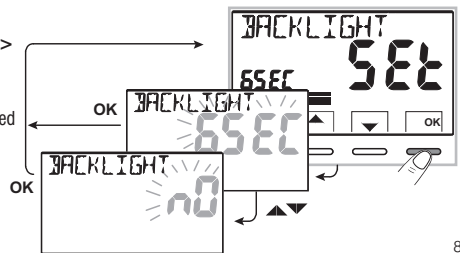


## 11.13 - BACKLIGHTING

It lets you enable or disable timed display backlighting. From path **Menu key -> CONFIGUR Set ->** use ▲▼ keys to select item **BACKLIGHTING Set**. Press **OK** to confirm

With the ▲▼ keys select the desired item: timed backlighting **6sec** or disabled backlighting **n0** (NO). Press **OK** to confirm. Press the **back** key to exit.

*Factory setting: timed backlighting 6 sec.*



# 11 - CONFIGURATION MENU (installer)

## 11.14 - ENTERING AND MANAGING PASSWORDS

Some functions of this programmable thermostat may be protected by a user Password (**Ut**) and/or installer (**InSt**), so that they may be only modified by authorised persons. No password is active in factory settings.

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### 11.14.1 - ENTERING THE NEW PASSWORD

- From the path **Menu key** -> **CONFIGUR Set** -> **PASSWORD SET** -> press «OK» to access the screen to create a secret **User code (PASSWORD SET Ut)**, confirm with **OK**, or select item **PASSWORD SET InSt** with the **▲▼**, keys and confirm with **OK** to create the **Installer code**.
- Using the **▲▼**, keys enter 4 digits (dashes not included) between **0000** and **9999**, individually confirm them with «OK». Press the **back** key to exit.

The «**User**» password lets you access available functions through the **Menu key**. If an installer password is also present the **CONFIGUR SET** menu may not be accessed.

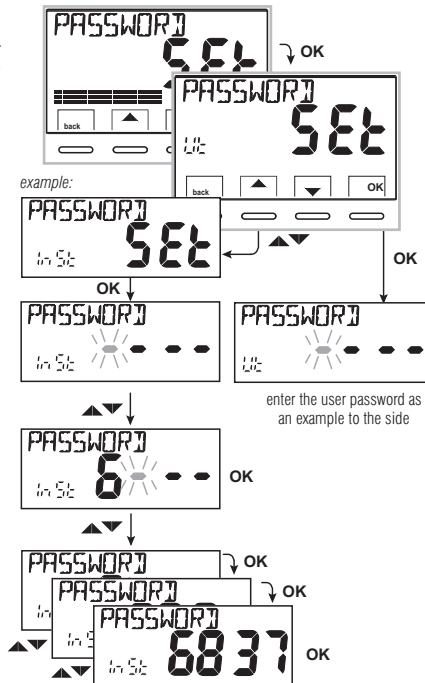
The «**Installer**» password lets you access all «**Configurations**» (**CONFIGUR SET**) menu functions as well as **User** settings.

-  With a password, certain quickly activated functions may still be used (see chapter 7).

### 11.14.2 - PASSWORD MODIFICATION OR CANCELLATION

When required, enter the previously created User or Installer password; follow the above procedure and access item **PASSWORD SET Ut** or **InSt**:

- enter 4 hyphens (---) to cancel the password
- enter 4 new digits to modify the password



**Information reserved to installer or expert user only**

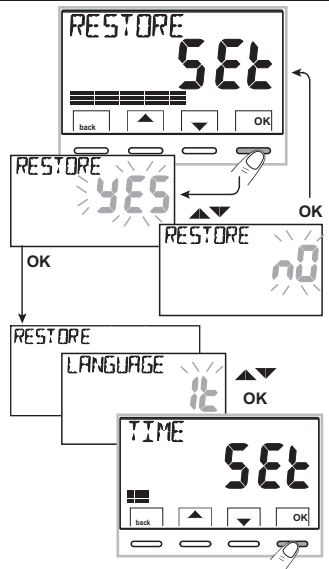
in the event of forgotten password enter the reset code **0927** when user or installer access is requested. The secret user or installer code will be cancelled.

# 11 - CONFIGURATION MENU (installer)

## 11.15 - RESTORE (RESET)

**IMPORTANT!** The RESTORE (Reset) operation is recommended for the installer or expert user. In fact, this operation deletes many previous settings and programs carried out also according to the type of system.

- The operation may be carried out following the path **Menu key -> CONFIGUR Set ->** using keys ▲▼ select item **RESTORE SET** confirm with **OK**.  
The display will ask to choose between restore «**YES**» and «**NO**».
  - Use the ▲▼ keys, to select then press **OK** to confirm.
  - If you opt for **NO** the display exits the function and goes back to the initial **RESTORE SET** screen. Press the **back** key to exit.
  - If you confirm **YES** «**RESTORE**» will be displayed for 3 seconds, then the system will restart and display the language screen.
  - Use the ▲▼ keys to select the desired language scrolling through available ones.
  - Confirm by pressing **OK**.
  - **IMPORTANT: to make the programmable thermostat operational** displaying the normal operation screen, it is mandatory to set or confirm: current date, hour, minutes, daylight saving time/standard time change (see complete procedure in par. 11.4).
- Note:** the programmable thermostat restores many factory settings (default) with the exception of some special items that use the last set value (see summary table in chapter 2).



The RESTORE operation deletes any user and/or installer password entered.

## 11.16 - SYSTEM SOFTWARE INFORMATION

From **normal programmable thermostat operation**, simultaneously pressing for 4 sec. the keys **Menu** and (RESTART) in the display shows for few seconds the screen **INFO SW** concerning some information on the installed firmware.

This information is useful in the event of request for technical support.

This operation does not delete any previously entered data, after a few seconds, the timer thermostat goes back to the initial normal operation screen.

