

WIRELESS THERMOSTAT EQUIPPED WITH RADIO TRANSMITTER

ENGLISH

Wall mounting



Power supply: alkaline batteries

🔥 Winter / ❄️ Summer

2 temperature levels (Comfort / Economy)

+ 1 Absence temperature level



INDEX

ENGLISH

EN

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PRESENTATION

The thermostat has been studied to operate in systems where it can be the only control of actuators or else can be coupled with other thermostats or chronothermostats.

It is equipped with a big, clear display so as to monitor all functions in real time. The "wireless" thermostat sends operating commands by means of radio frequency.

The signal sent can be received by a series of receivers which have the task of recognising and interpreting the signal, translating it into an operation to be performed (example: operation and/or display).

Ease of programming is the key feature of this device.

The thermostat regulates the temperature in ON/OFF differential mode and is adjustable from 0.2°C to 0.7°C, to the thermal inertia of your particular system.

Moreover, the thermostat can automatically anticipate ignition and inform the receiving system of a possible system fault.

Particular attention has been given to the energy saving factor: the option to block the set temperatures t1 (Comfort) and/or t2 (Economy), set temperatures t1/t2/t3 which can be set at any time and for any needs, enabling or disabling of temperature t3 (ex-Anti-freeze), all prevent energy from being wasted, which leads to economic savings (refer to the following pages for the description of these and other functions).

Other characteristics

- Room temperature display.
- Possibility of correction of the detected room temperature (OFFSET).
- Possibility of password entry to access settings for modification.
- Possibility of assignment to one or more receivers.
- Display indication of radio signal transmission.
- Complete shutdown of temperature control.
- Easy coupling of transmitter to the zone with self-learning.
- Transmission "test" signal to verify signal presence and range.
- Transmission to receiver of low battery level.
- Operational safety is ensured by a double transmission of information to the receiver.



WARNINGS



The installation and electrical connection of the devices and appliances must be implemented by person with electrotechnical expertise only and in conformity with current laws and regulations.

- Ensure the product is intact once it is removed from its packaging.
- Packaging components (any plastic bags, polystyrene protection, etc.) must be kept out of reach of children.
- Carefully read the instruction manual before using the product as it provides important guidelines regarding safety, installation and use.
The instruction manual must be preserved with care for future reference.
- Use only 1.5V type AA (LR6) alkaline batteries; the use of unsuitable batteries can cause malfunction and/or faulty viewing of the display.
- If necessary, clean the thermostat with a slightly damp cloth.



The product has been tested and its characteristics are guaranteed when alkaline DURACELL or ENERGIZER batteries are used.

Important: for system mode and operation of wireless temperature control and for proper installation, see also specific manual of the receiver.



Radio frequency waves emitted by the wireless thermostat are not a risk to human health.

Important: the manufacturer reserves the right to introduce any technical and/or constructive changes deemed necessary, with no prior notice.



DISPOSAL OF ELECTRICAL & ELECTRONIC EQUIPMENT

This symbol on the product or its packaging indicates that this product shall not be treated as household waste.

Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:

- sales points, in case you buy a new and similar product;
- local collection points (waste collection centre, local recycling center, etc...).

By ensuring this product is disposed of correctly, you will help prevent potential negative consequence for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your house hold waste disposal service or the shop where you purchased the product.



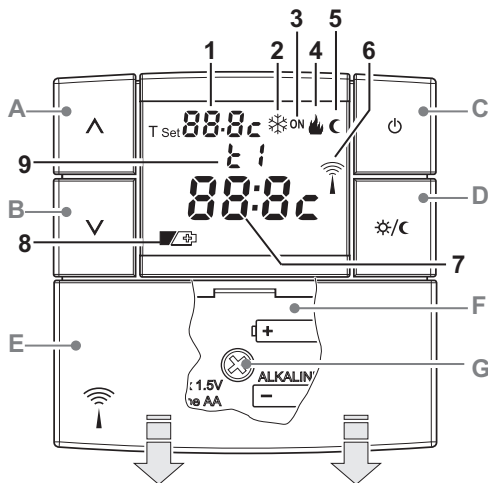
1 - TECHNICAL SPECIFICATIONS

- Power supply:.....N°2 x 1.5 V type AA (LR6) alkaline batteries
- Autonomy:approx. 3 years
- Time remaining from when
"Battery Low" symbol appears  30 days
- Control output:.....via radio (to an actuator receiver of the "Wireless
Temperature Control" family)
- Antenna:.....built into the device
- Radio emission:the device intentionally emits radio waves
on the frequency band of "868-868.6" MHZ,
with a maximum power of less than 25mW e.r.p
- Maximum signal range in a clear area:80 metres
- Maximum signal range in the presence of walls or obstacles:.....30 metres (in accordance with chapter 3.7)
- Software:Class A
- Insulation type:.....Class III
- Degree of protection:.....IP 30
- Pollution rating:normal
- Type of installation:wall mounted
- Room temperature display range:.....- 5°C ÷ +39°C
- Ambient temperature indicator resolution:0.1°C
- Set temperature setting adjustment field:(t1 Comfort / t2 Economy) +4°C ÷ +39°C (restrictable)
- t3 set temperature setting adjustment field (Absence):excludable or adjustable from + 4°C to + 39°C (default 5°C)
(in Winter mode = default 5°C - Summer = default 33°C)
- Setting temperature resolution:0.5°C
- Room temperature detection correction (OFF-SET):.....adjustable from -1.9°C to +1.9°C (default 0.0°C)
- Differential ON/OFF temperature adjustment method:adjustable from 0.2°C to 0.7°C (default 0.3°C)
- Energy classification:ErP: Class I; 1% Reg. EU 811/2013
- Thermal gradient:max 1°K / 15 min
- Operating temperature limits:.....-5°C ÷ +55°C
- Storing temperature limits:-10°C ÷ +65°C



*When the room temperature blinks, display range (-5°C or 39.9°C) has been exceeded.
Err indicates that heat control activity has been suspended due to probe error.*

2 - GENERAL VIEW AND KEY FUNCTIONS AND DISPLAY



- E. Sliding battery compartment cover
 F. Battery compartment
 G. Screw for fastening device to wall-mounted base

Key functions:

- A. **UP** $\wedge$ increases the value of a setting
 B. **DOWN** $\vee$ decreases the value of a setting
 C. Key OFF system shutdown (**OFF**)
 D. Key to set "t2" Economy (energy saving) temperature / "t1" Comfort or vice versa
 Confirm operation inside the prog. menu

 More particular key functions are described in the specific paragraphs.

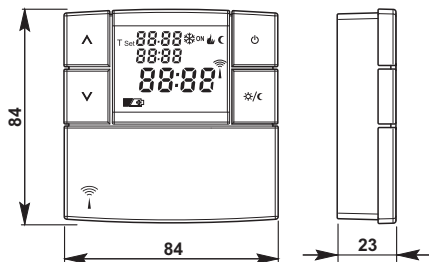
Display:

1. Displays the set **T set** temperature
2. Cooling program enabled (snowflake Summer)
3. System in operation indicator:
 - blinking **ON** + flame (e.g. boiler in operation)
 - blinking **ON** + snowflake (e.g. air conditioner in operation)
4. Heating program enabled (flame Winter)
5. t2 temp. Economy (energy saving) operation enabled icon C
6. Radio signal transmission in progress
7. Room temperature reading
8. Low battery indicator (replace within 30 days)
9. Enabled temperature indication:
 - **t1 Comfort**
 - **t2 Economy** (energy saving)
 - **t3 Absence**

3 - INSTALLATION

EN

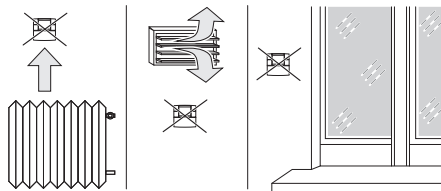
3.1) OVERALL DIMENSIONS



3.2) INSTALLATION STANDARDS

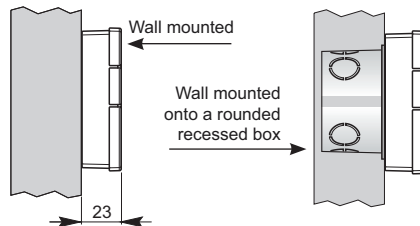
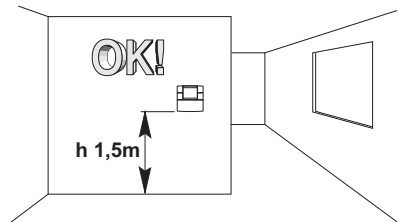
Thermostat installation: independent-fixed

- Install the thermostat far from sources of heat, windows and anything that may alter standard operation.



3.3) FASTENING THE WALL-MOUNTED BASE

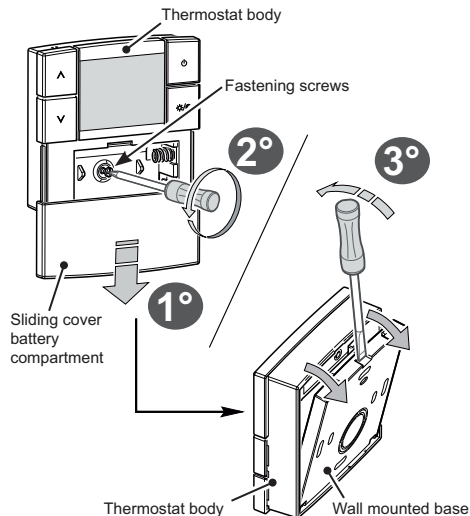
- Install the thermostat at approx. 1.5 + 1.6 m.



3 - INSTALLATION

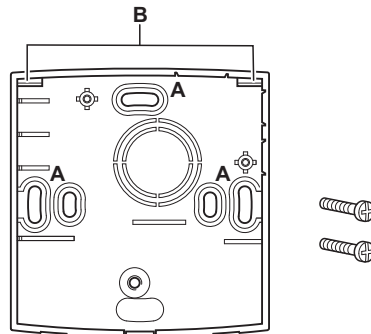
3.4) PRELIMINARY OPERATIONS

- After unscrewing the fastening screw, separate the base from the thermostat by levering with a screwdriver in the slot at the bottom of the device.



3.5) FASTENING THE WALL-MOUNTED BASE

- Fasten to the wall or to the rounded recessed box via the relative holes "A".



A - fastening holes

B - cables for thermostat coupling

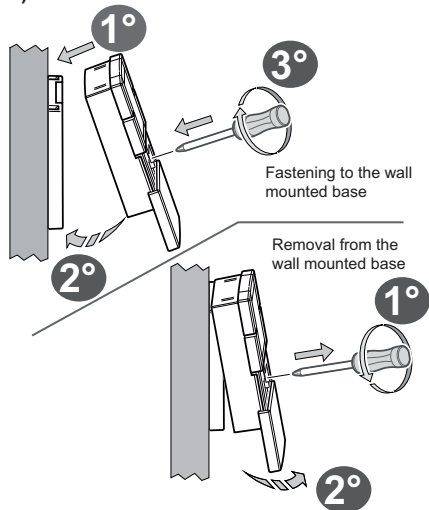
- The back of the base is designed to apply adhesive for securing it to the wall.

 Table base available (optional)



3 - INSTALLATION

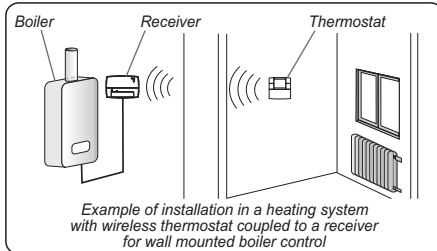
3.6) THERMOSTAT FASTENING OR REMOVING



ⓘ To ensure the 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 recessed box.

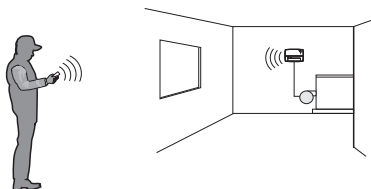
3.7) INSTRUCTIONS FOR THE INSTALLER

- Thermostat data is sent entirely via radio. For this reason, during installation, always take into account some necessary precautions to avoiding limiting or, in some cases, inhibiting radio wave range; namely:
 - install the device away from furniture or metal structures that could alter or shield the propagation of radio signals
 - ensure that there are no other electric or electronic devices (TV, microwave, etc.) within at least 1 metre from the device
 - if possible, install the device in a central position if the apartment is made up of several floors, install the device on a middle floor.
- In the absence of barriers between the thermostat and control elements (valves, receiver, etc.) flow rate in "free air" is about 80 m (see "technical specifications").



3 - INSTALLATION

- ③ With support from the "test" function (see paragraphs 3.9 and 3.10) it is possible to check the optimal position (the best signal reception) in advance for thermostat and receiver installation.



Range decreases significantly when the components are interposed between the obstacles. This attenuation varies in different degrees depending on the type of material the walls or barriers to cross are made of. The presence of noise or electromagnetic interference sources can also reduce the indicated radio range. Below are some examples of mitigation related to materials, which impact on the "Free air" range declared above.

DENSE VEGETATION

trees, hedges, shrubs, etc.
radio range reduction of 10% ÷ 25%



WOOD OR PLASTERBOARD WALLS

radio range reduction of 10% ÷ 30%

BRICK OR STONE WALLS

radio range reduction of 40% ÷ 60%



CONCRETE WALLS

radio range reduction
of 50% ÷ 70%

METAL WALLS and/or FLOORS

radio range reduction of 65% ÷ 90%



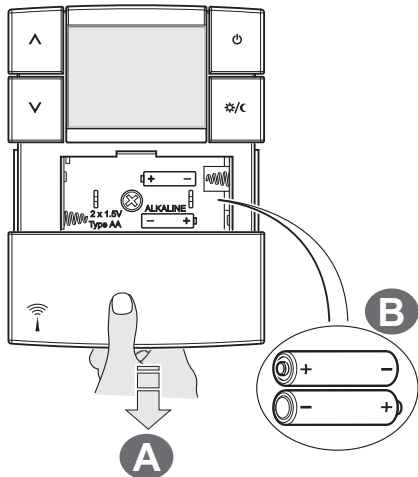
3 - INSTALLATION

3.8) INSERTING OR REPLACING BATTERIES

- Slide the cover as shown in figure "A".
- Insert or replace with n°2 x 1.5V batteries type AA-LR6 ensuring to place the poles correctly (fig. "B").

ONLY USE GOOD QUALITY ALKALINE BATTERIES

(Duracell or Energizer are recommended)



Attention: battery life may be more than 3 years. However, it is recommended to replace them at least every 36 months to avoid them running out when you are away (e.g. Christmas holidays, etc.).

IMPORTANT!

The thermostat saves set data in its internal memory. When batteries are removed, the display stays on for a few seconds, then it switches off. When the new batteries are inserted, a **Load** message (about 2 seconds) indicates that the software is loading data in the memory and the last active configuration will be displayed.



For convenience and installation requirements, all programming and testing operations can be performed before setting the thermostat to the wall mounted base.



Very low differential on/off values, for example 0.2°C (see paragraph 5.2/b) may result in increased frequency of control transmission to the receiver, resulting in more rapid battery depletion.



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

3 - INSTALLATION

3.9) COUPLING THE THERMOSTAT TO THE RECEIVER (self-learning)



Carefully review the receiver instruction sheet for this operation

PRELIMINARY OPERATIONS

- Install and power the receiver.
- Program the thermostat if you wish to set special functions according to your temperature control system type, as per chapter 5.



This function can be protected by a password (see chapter 6).

ON THE THERMOSTAT

- Press keys **▲** and **▼** for 4 seconds; a **rF tEst** message will appear on the display (fig. "1").
- The symbol of an antenna  will blink on the display every 3 seconds (fig. "1").

ON THE RECEIVER

- Perform coupling instructions indicated in the receiver instructions manual.

ON THE THERMOSTAT

(coupling operations output)

- Press keys **▲** and **▼** briefly (at least 1 second). The program previously in progress will appear on the display (example in fig. "2"). The thermostat is coupled to the receiver.

Note: in the event of thermostat RESET, coupling with a receiver will not be cancelled.

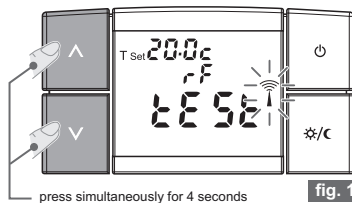


fig. 1



Test signal transmission will remain active for 3 minutes maximum.

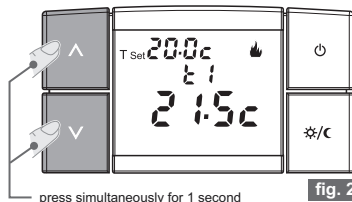


fig. 2

3 - INSTALLATION

3.10) RADIO SIGNAL INTENSITY VERIFICATION TEST



Carefully review the receiver instruction sheet for this operation.



This function can be protected by a password (see chapter 6).

ON THE THERMOSTAT

- Press keys **Λ** and **∇** for 7 seconds; a **rf BEEP** message will appear on the display.
- The symbol of an antenna  will blink on the display every 3 seconds (fig. "3").

ON THE RECEIVER

- At every signal reception, 1, 2 or 3 brief acoustic signals will be emitted, based on intensity (1= LOW, 2 = MEDIUM, 3 = HIGH) of the received signal.
- The corresponding LED " " will blink.
- The **3 VMETER LEDs** (indicator of signal intensity) will light up briefly at each signal reception, depending on the intensity of the received signal.

DEACTIVATING the "radio signal intensity verification test" operation

ON THE THERMOSTAT

- Press keys **Λ** and **∇** briefly (at least 1 second) (example in fig. "4").
- The program previously in progress will appear on the display.



fig. 3



Test signal transmission will remain active for 3 minutes maximum.

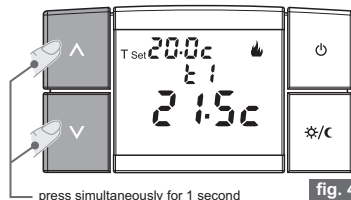


fig. 4

4 - USER MANUAL

4.1) OPERATING MODES

The thermostat has 7 operation modes:

Display symbols	Operating modes
 t1	WINTER = heating (default setting) with t1 COMFORT temperature
 t2	Reduction in winter mode = heating with t2 ECONOMY temperature (energy saving)
 t1	SUMMER = cooling with t1 COMFORT temperature
 t2	Reduction in summer mode = cooling with t2 ECONOMY (energy saving) temperature
 t3	Assistance (t3) temperature activation - in Winter : the connected device will begin operation if room temperature goes below the set T Set temperature. - in Summer : the connected device will begin operation if room temperature goes above the set T Set temperature. <i>Note: this operating mode is only possible if (On) is enabled on the programming menu (par. 5.2/d).</i>
 t3	
OFF	Thermostat off connected device will be fully disabled.

Examples of displays according to desired operating mode:



Winter mode
Comfort temperature



Winter mode
Economy temperature



Winter mode
Absence temperature



Summer mode
Absence temperature



OFF mode
thermostat off

4 - USER MANUAL

EN

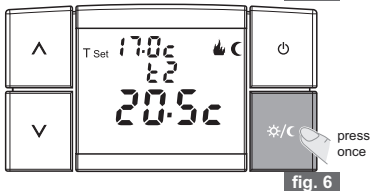
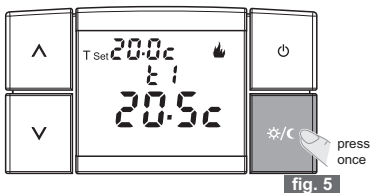
4.2) CHANGING OPERATION MODE

4.2/a) Changing from "t1" Comfort temperature to "t2" Economy temperature (energy saving) and vice versa.

From normal thermostat operating conditions:

- Press , the display will show the relative symbol and set temperature (e.g. fig. "5" and "6").

The figures below show how to switch from **WINTER** mode with temperature **t1** COMFORT to relative temperature **t2** ECONOMY (energy saving) and vice versa.



4.2/b) Changing from WINTER to SUMMER and vice versa

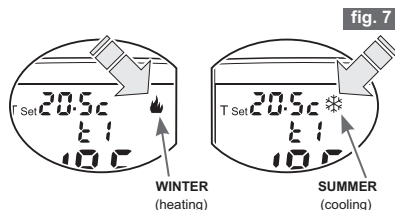
 Setting this function can be performed from the **programming menu** (see chapter 5.1 and par. 5.2/a).

 Access to the programming menu can be protected by a password (see chapter 6).

- The set mode is highlighted by a relative symbol:

 = **WINTER mode (heating)**
default setting

 = **SUMMER mode (cooling)**



4 - USER MANUAL

4.2/c) t3 Absence temperature operating activation



Can be set **ONLY** when **t3 Absence** temperature is "On" (see chapter 5 - paragraph 5.2/d)



Access to the programming menu can be protected by a password (see chapter 6).

From normal thermostat operating conditions:

- Keep pressed for 3 seconds, then release.
The message **t3**, the set **T Set** temperature and the detected room temperature will appear on the display (e.g. fig. "8" and "9").
- In this condition, the connected device will begin operation if room temperature goes below the set **T Set** temperature (in "**WINTER**" mode) or goes over the set **T Set** temperature (in "**SUMMER**" mode).

Important:

during **t3 Absence** operating periods, temperature control is active with the default set temperature at **5.0°C** in "**WINTER**" and at **33°C** in "**SUMMER**" .

It will however be possible to modify (increase or decrease) the set **T Set** according to needs with keys or . The value changes by 0.5°C every time the key is pressed.

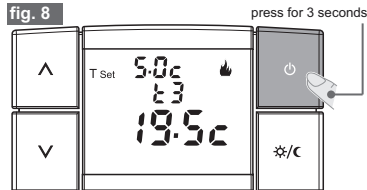


Modification of **t3 Absence** temperature can be protected by a password (see chapter 6).

• To exit from the function:

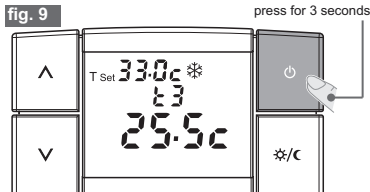
- press to return to the previously set program (example in fig. "10")
- otherwise, press for 3 seconds; the thermostat will switch off and **OFF** will appear on the display (see next paragraph).

fig. 8



E.g. of Winter mode, t3 Absence temperature operating activation

fig. 9



E.g. of Summer mode, t3 Absence temperature operating activation

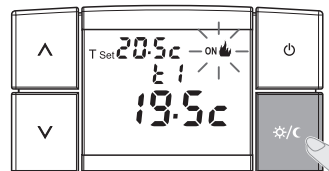


fig. 10

4 - USER MANUAL

4.2/d) Changing from NORMAL OPERATION to OFF (shutdown)

This condition blocks thermostat functions during periods when neither heating nor cooling operations are necessary. It puts devices (transmitter and receivers only where present) a low energy consumption condition.



This function can be protected by a password (see chapter 6).

From normal thermostat operating conditions:

- Press  for 6 seconds. **OFF** will appear on the display together with the last detected temperature (example in fig. "11").



To keep battery consumption to a minimum, the room temperature displayed on the thermostat is only updated every 30 minutes.



In the event of flat batteries in this condition, the below symbol will be enabled on the display: .

- To restart the system, press  for 1 second. The last set program will appear on the display (example in fig. "13").

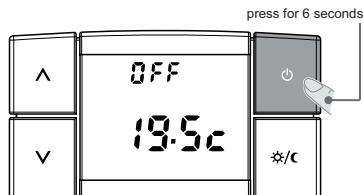


fig. 11

room temperature reading update every 30 minutes only

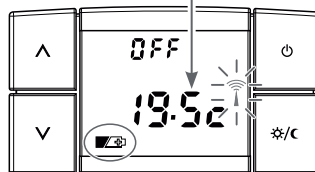


fig. 12

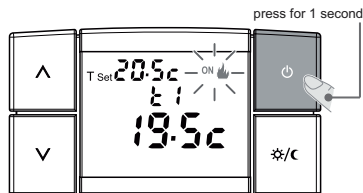


fig. 13

4 - USER MANUAL

4.3) CHANGING T Set TEMPERATURE:

t1 (comfort), t2 (economy), t3 (absence)

- If default set temperatures:

t1 = 20.0°C, **t2** = 17.0°C, **t3** = 5.0°C (for WINTER) 🔥

t1 = 24.0°C, **t2** = 27.0°C, **t3** = 33.0°C (for SUMMER) ❄️

do not happen to be suitable, they can be changed accordingly from +4 °C to +39°C, by pressing the relative keys.

From thermostat operation in progress mode:

to modify set **T Set** temperature, press **▲** or **▼** (fig. "15").

*Note: every time the **▲** or **▼** key is pressed, the temperature will change by 0.5 degrees. Keep either button pressed to activate the rapid scroll.*

- System activation is signalled by the **WINTER** 🔥 or **SUMMER** ❄️ symbol plus blinking **ON** (e.g. in fig. "15").



The thermostat will accept temperature values that satisfy the following conditions:

WINTER- **t1** greater than or equal to **t2** greater than or equal to **t3**

SUMMER- **t3** greater than or equal to **t2** greater than or equal to **t1**

- To modify set **T Set Absence (t3)** temperature, it has to be previously enabled (On) from the programming menu (see paragraph 5.2/d)



In addition, modification of set **t3 Absence T Set** temperature can be protected by a password (see chapter 6)

Important: set temperatures **t1** (comfort) and/or **t2** (economy) in Winter and/or Summer mode can be limited (see paragraph 5.2/e). In the event of modification, the **T Set** temperature blinks to indicate any Blocks (example in figure "16").

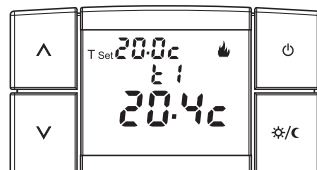


fig. 14

example: Winter operation and heating activated

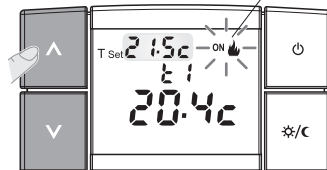


fig. 15

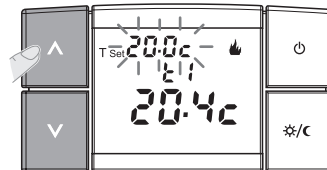


fig. 16

4 - USER MANUAL

4.4) RESET

It is recommended that the installer or expert users access the Reset operation since all settings previously implemented in accordance with the type of system will be lost. Once this Reset operation is implemented, the thermostat restores all the default settings



This function can be protected by a password (see chapter 6).

Note: if a reset operation protected by a password is performed, this too will be cancelled (to enter a new password, see procedure in par.6.1/a).

- To cancel entered data, keep all four keys pressed for about 3 seconds.
All sections that are on will appear on the display (general autotest) (fig. "17").
- The radio protocol, installed firmware version and any revisions will then appear on the display (example in fig. "18"). Afterwards, the display will appear as in figure "19" and the thermostat will be ready for operation.



With this operation, all program settings are lost as the thermostat resets the default settings.

Note: in the event of thermostat RESET, coupling with a receiver (par. 3.9) will not be cancelled.

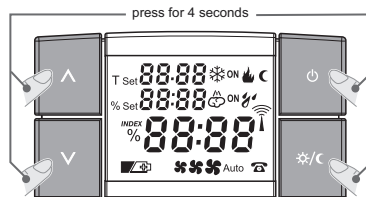


fig. 17

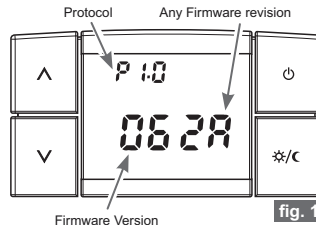


fig. 18

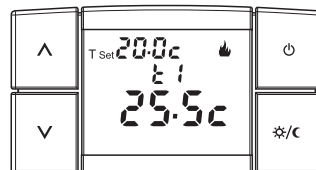


fig. 19

5 - SPECIAL FUNCTIONS SETTINGS

5.1) PROGRAMMING MENU



It is advisable to allow programming menu access to the installer or expert users since modifications to some settings could compromise proper system operation.

It is possible to set a series of parameters and/or activate optional functions from this menu.



Access to the programming menu can be protected by a password (see chapter 6).

To access the programming menu from normal thermostat operating conditions (not including OFF mode):

- Press keys and for 3 seconds (fig. "20").
- **MEnU Set** will appear on the display for a few seconds (figure "20").
- Immediately after, **Set** and the blinking set operating mode (**WINTER** or **SUMMER**) will appear on the display (example in fig. "21").

Or: if a display access password was previously programmed, the display will look like figure "22".

- enter the password as per procedure described in chapter 6
- immediately after, **Set** and the blinking set operating mode (**WINTER** or **SUMMER**) will appear on the display (example in fig. "21").
- Set functions as described in the following paragraphs.

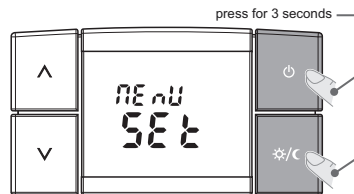


fig. 20

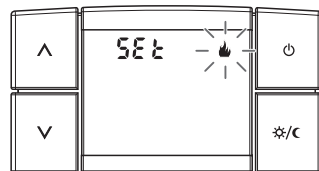


fig. 21

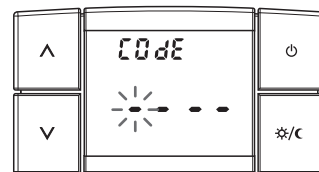
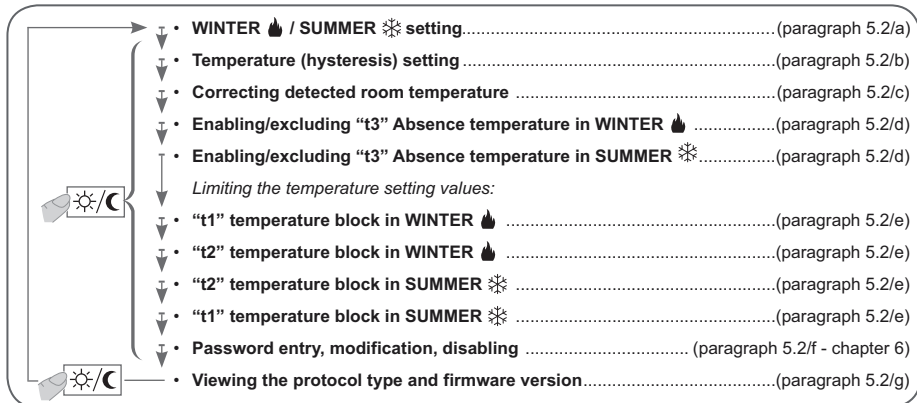


fig. 22

5 - SPECIAL FUNCTIONS SETTINGS

5.2) LIST OF FUNCTIONS PRESENT IN THE PROGRAMMING MENU

After accessing the programming menu (see paragraph 5.1), the following parameters/functions can be set and/or modified (described in the same order in the following paragraphs):



IMPORTANT: *each modified function is confirmed within the menu:*



- briefly pressing ☀️/❄️ (passing to the next function);
- pressing key ☀️/❄️ for 3 seconds, with resulting exit from menu and return to previously set program;
- after two minutes without any key being pressed, resulting return to the previously set program.

5 - SPECIAL FUNCTIONS SETTINGS

5.2/a) WINTER 🔥 / SUMMER ❄️

It is possible to set system season use:

🔥	= WINTER mode (heating) default setting
❄️	= SUMMER mode (cooling)

- To select the desired operating mode, press **▲** or **▼**:
the symbol (**WINTER 🔥** or **SUMMER ❄️**) will blink (e.g. fig. "23").
- Briefly press **☀️/°C** to pass to the following function (example in fig. "24").

or keep pressed for at least 3 seconds to exit from the programming menu.

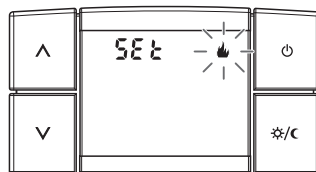


fig. 23

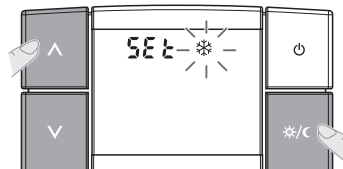


fig. 24

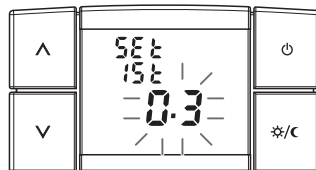


fig. 25

5 - SPECIAL FUNCTIONS SETTINGS

EN

5.2/b) SETTING TEMPERATURE (hysteresis)

The thermostat is default set to work in **DIFFERENTIAL** (ON/OFF) mode with a default differential temperature value (**hysteresis**) of **0.3°C**. The hysteresis value must be set according to the system's thermal inertia.

 A low value is recommended for systems with radiators (e.g. cast iron) and a high value for systems with Fan coils.

- Accessing the screen, **ISt** and the blinking set thermal differential value appear (example in fig. "26" - default setting **0.3**).
- Modify the value (settable from **0.2** to **0.7°C**) using the keys **▲** or **▼** (example in fig. "27"). Example of thermal differential temperature (hysteresis) setting in figure "27": **0.6°C**.
- Briefly press  to pass to the next function

or keep pressed for at least 3 seconds to exit from the programming menu.

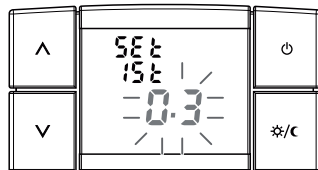


fig. 26

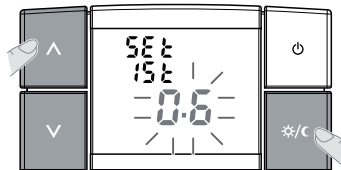
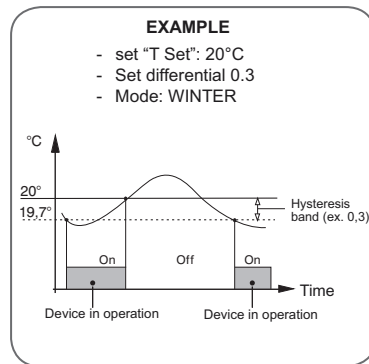


fig. 27

5 - SPECIAL FUNCTIONS SETTINGS

5.2/c) DETECTED ROOM TEMPERATURE CORRECTION

If for any reason the thermostat must be installed in a position where the detected temperature can be affected (e.g. an external wall, which is generally colder than the rest of the house in winter), an Offset value (correction value) can be set for the detected room temperature.

- Accessing the screen, **COrr** and the blinking setting correction value will appear (example in fig."28" - default setting **0.0**).
- Modify the value (settable from **-1.9** to **1.9°C**) using the keys **Δ** or **∇** (example in fig. "29").

Example of room temperature correction setting (offset) in figure "29": **-0.5°C**.

- Briefly press **☀/C** to pass to the following function (example in fig. "29" / "30").

or keep pressed for at least 3 seconds to exit from the programming menu.

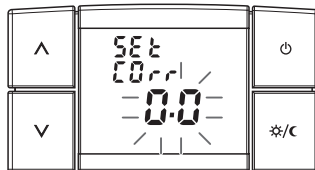


fig. 28

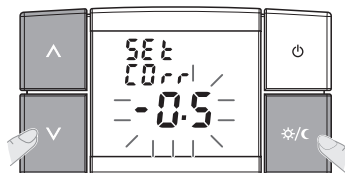


fig. 29

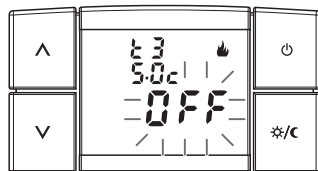


fig. 30

5 - SPECIAL FUNCTIONS SETTINGS

5.2/d) ENABLING/EXCLUDING ABSENCE TEMPERATURE

(t3) - in Winter and/or in Summer

These two independent functions (**WINTER**  or **SUMMER** ) allow temperature control to be deactivated when operating with Absence temperature **t3** selected.

Functions are displayed in this sequence in the programming menu:

- enabling/excluding "t3" **WINTER** 
- enabling/excluding "t3" **SUMMER** .

 Both functions (both in **WINTER** and in **SUMMER**) are default set to be excluded (OFF).

- Seen from the first screen (example in fig. "31"):
 - **t3**,
 - the set temperature (default setting:
WINTER  5.0°C or **SUMMER**  33°C),
 - blinking function status (**ON** or **OFF**) (example in fig. "31" - default setting **WINTER - OFF**).
- To modify function status (example in fig. "32"):
 - press  for "**ON**" (enabled)
 - press  for "**OFF**" (disabled).
- Briefly press  to pass to the "t3" **WINTER**  screen to the "t3" - **SUMMER**  screen.

Alternatively, keep pressed for at least 3 seconds to exit from the programming menu.

 After having activated (ON) the "t3" function and exiting from the programming menu, operate as described in paragraph "4.2/c" to set the thermostat in "t3 - Absence" temperature function. If you exclude "t3 - Absence" function from "t3" temperature operation, you will be at "t1" temperature level upon exit.

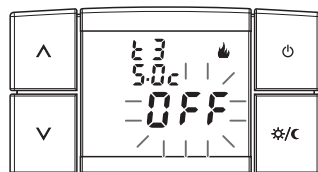


fig. 31

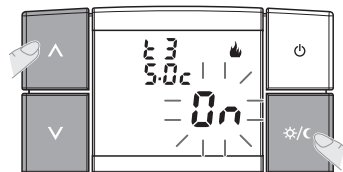


fig. 32

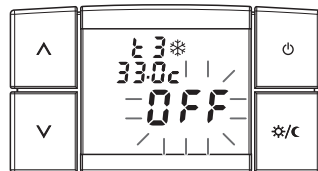


fig. 33

- From the display show in fig. "33", press key  to pass to the next function (see paragraph 5.2/e).

5 - SPECIAL FUNCTIONS SETTINGS

5.2/e) LIMITING MAX AND MIN TEMPERATURE SETTING VALUES

 In some particular thermostat installations, for instance in public offices, hotels, etc., it may be useful to limit **T Set** temperature setting to **"t1 - Comfort"** and **"t2 - Economy"** to avoid incorrect settings being entered by unauthorised personnel.

- Such limits can be applied to both "WINTER"  (heating) and "SUMMER"  (cooling) modes.

Functions are displayed in this sequence in the programming menu as per the table below:

To pass from one block function to the next, briefly press  / .

Function <i>Setting blocks at desired T Set</i>	Lit symbols		Settable temperatures	
	blinking alternating	fixed	maximum	minimum
1° • MAX settable temperature block   → "t1" WINTER Comfort	 bLOC / t1		39.0°C	"t2" set
2° • MIN settable temperature block   → "t2" WINTER Economy	 bLOC / t2	 	"t1" set	"t3" set (to set, see par. 4.2/c)
3° • MAX settable temperature block   → "t2" SUMMER Economy	 bLOC / t2	 	"t3" set (to set, see par. 4.2/c)	"t1" set
4° • MIN settable temperature block "t1" SUMMER Comfort	 bLOC / t1		"t2" set	4.0°C

 After 4° brief display of the block,  /  the display passes to the next function (par. 5.2/f)

Proceed with setting each single desired block as per procedure on the following page →

5 - SPECIAL FUNCTIONS SETTINGS

Temperature block enable

- Accessing the first screen, **t1** and blinking **bLOC** alternating with 4 fixed hyphens (-----) fig. "34" will be displayed.

 The basic setup does not contain any blocked settings, as displayed by the 4 hyphens -----.

- To set the temperature limit value (block), press **▲** or **▼** (example in fig. "35").

*Note: every time the **▲** or **▼** key is pressed, the temperature will change by 0.5 degrees. Keep either button pressed to activate the rapid scroll.*

- Briefly press **☀/☾** to confirm and pass to the next set **T Set** temperature block;

alternatively, keep pressed for at least 3 seconds to exit from the programming menu.

Deleting temperature blocks

- In all four T Set temperature limit functions,
- to eliminate previously set blocks, press **▲** or **▼** until "-----" is displayed (example in fig. "34").
- Briefly press **☀/☾** to confirm and pass to the next function; alternatively, keep pressed for at least 3 seconds to exit from the programming menu.

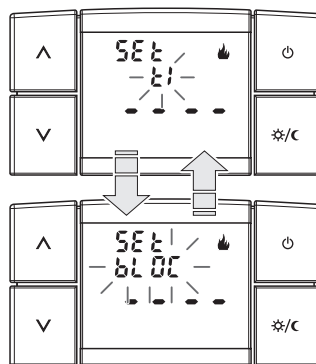


fig. 34

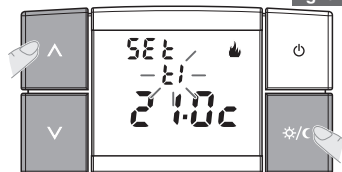


fig. 35

E.g. t1 Comfort set temperature MAX block for Winter mode (heating)

5 - SPECIAL FUNCTIONS SETTINGS

5.2/f) ENABLING, MODIFYING OR DELETING THE PASSWORD

Some functions can be protected directly or indirectly by a password to avoid incorrect settings being entered by unauthorised personnel.

Access PASSWORD function to view:

- the message **"CODE"** and **"- - - -"** if no password has been entered (fig. "36")
- the message **"CODE 2"** and **"- - - -"** if a password is present (fig. "37")

IMPORTANT:

See chapter 6 for information regarding proper operation.

- Briefly press to confirm and pass to the next function; alternatively, keep pressed for at least 3 seconds to exit from the programming menu.

5.2/g) VIEWING THE PROTOCOL TYPE AND FIRMWARE VERSION

The radio protocol, installed firmware version and any revisions will appear on the display for 5 seconds (e.g. fig. "38").

No selection can be made on this page. These parameters are required in case of requests for technical assistance.

- Briefly press to return to the first programming menu function **"WINTER / SUMMER setting"** (paragraph 5.2/a).

Press for 3 seconds to exit from the menu and return to the previously set program.

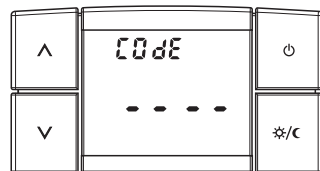


fig. 36

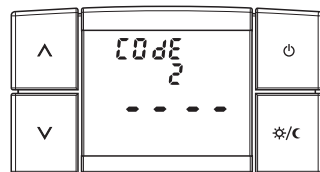


fig. 37

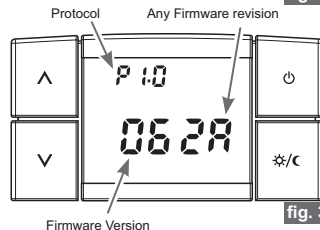


fig. 38

6 - PASSWORD

EN

6.1) ENABLING, MODIFYING OR DELETING THE PASSWORD

Some functions can be protected directly or indirectly by a password to avoid incorrect settings being entered by unauthorised personnel.

Functions directly protected by a password are:

- Coupling the chronothermostat to the receiver (paragraph 3.9)
- Radio signal intensity verification test (paragraph 3.10)
- Modifying **T Set** absence temperature t3 (paragraph 4.2/c - 4.3)
- Changing from NORMAL OPERATION to OFF (shutdown) (paragraph 4.2/d)
- Reset (paragraph 4.4)
- Accessing the PROGRAMMING MENU (paragraph 5.1)

The functions protected indirectly by a password are present in the **"PROGRAMMING MENU"** (see list paragraph 5.2).

 After two minutes without any key being pressed, the selection will be confirmed and you will exit from the program and then return to the previously set program.

6.1/a) FIRST PASSWORD ENTRY

- To enter a password in normal thermostat operation, press  and  for 3 seconds to access the **"PROGRAMMING MENU"**.
- **MEnU SEt** will appear on the display for a few seconds (fig. "39").
- Immediately after, **SEt** and the blinking set operating mode (**WINTER**  **SUMMER** ) will appear on the display (e.g. fig. "40").
- Quickly press  nine times to access the password page: **"CODE"** and **"- - - -"** will appear on the display (fig. "41").

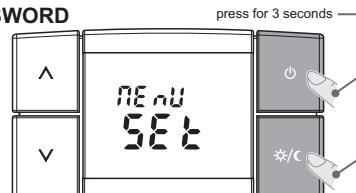


fig. 39

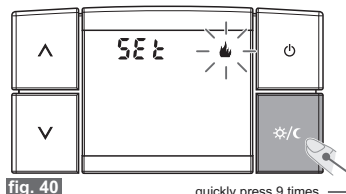


fig. 40

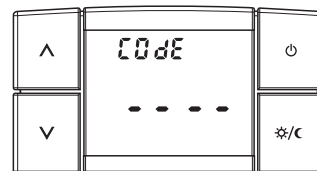


fig. 41

6 - PASSWORD

- Set the desired level with $\wedge$ or $\vee$; press to confirm $\odot/\ominus$ (e.g. fig. "42").
- Follow the same procedure for the other three hyphens (e.g. fig. "43").
- Once the key has been confirmed, $\odot/\ominus$ the last password value has been enabled and the display will show the following function (par. 5.2/g). Alternatively, keep pressed for at least 3 seconds to exit from the programming menu and enable the password (fig. "43").

Wait 8 seconds to exit from the password entry screen without saving any modifications.

Hyphens "-" are not permitted together with numbers; only 4 consecutive hyphens as described in paragraph 6.1/d disable (delete) the password.

Examples:



6.1/b) ACCESSING PROTECTED FUNCTIONS

- If the password has been enabled and the user wants to enable a protected function, a "CODE" message and the first hyphen to the left will blink on the display (fig. "44").
- If known, enter the password using $\wedge$ or $\vee$ and press $\odot/\ominus$ to confirm each entered value (see previous procedure).

If you enter the wrong password, the display will show Err; after 3 attempts, the thermostat will return to normal operation.

If a reset operation protected by a password is performed, this too will be cancelled. (to enter a new password, see procedure in par. 6.1/a).

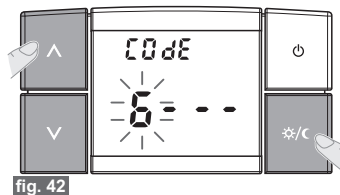


fig. 42

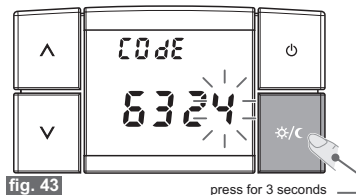


fig. 43

press for 3 seconds

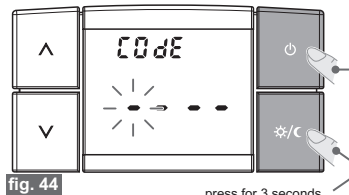


fig. 44

press for 3 seconds

6 - PASSWORD

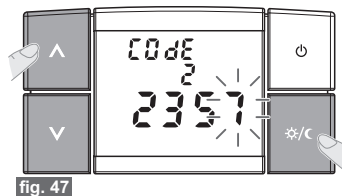
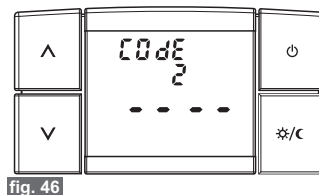
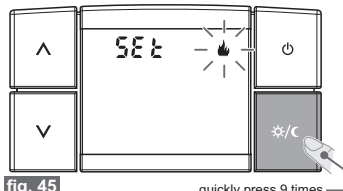
EN

6.1/c) MODIFYING THE PASSWORD

Proceed as follows to modify the password:

- From normal thermostat operation, to enter, press  and  for 3 seconds to access the "PROGRAMMING MENU".
A "CODE" message and the first hyphen to the left will blink on the display (see fig. "44" on the previous page).
- Enter the **current password** with  or ; confirm each value with  (example in fig. "42" and "43")
- Once the last value has been confirmed, the programming menu will be accessed and the display will show the first available function (example in fig. "45")
- Quickly press  nine times** to access password entry display. "CODE 2" and "-----" will appear on the display (fig. "46").
- Enter the **new password** with  or , then confirm each value with .
- Once the key  has been confirmed, the **new password** has been enabled and the display will show the following function (fig. "47");

alternatively, keep pressed for at least 3 seconds to exit from the programming menu and enable the new password.



6 - PASSWORD

6.1/d) DELETING THE PASSWORD

Proceed as follows to delete the password:

- Operate as described in the previous paragraph (6.1/c).
- When a "**CODE 2**" message appears on the display, enter 4 hyphens (- - - -) as a password and confirm each "hyphen" with /C (fig. "48/49").
- Once the last hyphen (fig. "50") key /C has been confirmed, **the password has been deleted** and the display will show the following function;

alternatively, keep pressed for at least 3 seconds to exit from the programming menu and delete the password.



If the password is lost or forgotten, contact the manufacturer's customer service centre, which will communicate the password to unlock it.

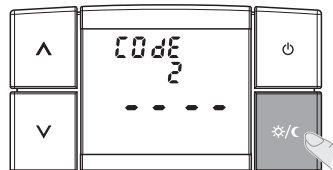


fig. 48

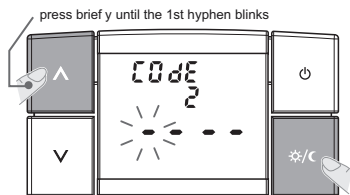


fig. 49

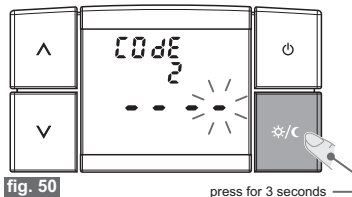


fig. 50

