# KABA²

A NEW GENERATION THAT TURNS EVOLUTION INTO A REVOLUTION CLASS I – 230V – 50 HZ

**PURMO**

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## 1A  Free Standing



## 1B  Free Standing



## 1C  Free Standing
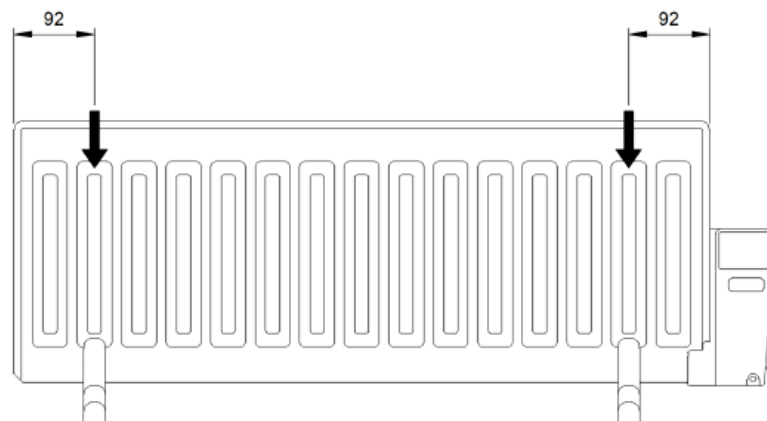


Only position the feet in the second channel in from each end of the radiator

## 2A  Minimum Distance Around Installed Radiator



Min. 100mm

Min. 100mm

Min. 100mm (Wall Mounting Only)

Min. 200mm

Min. 100mm
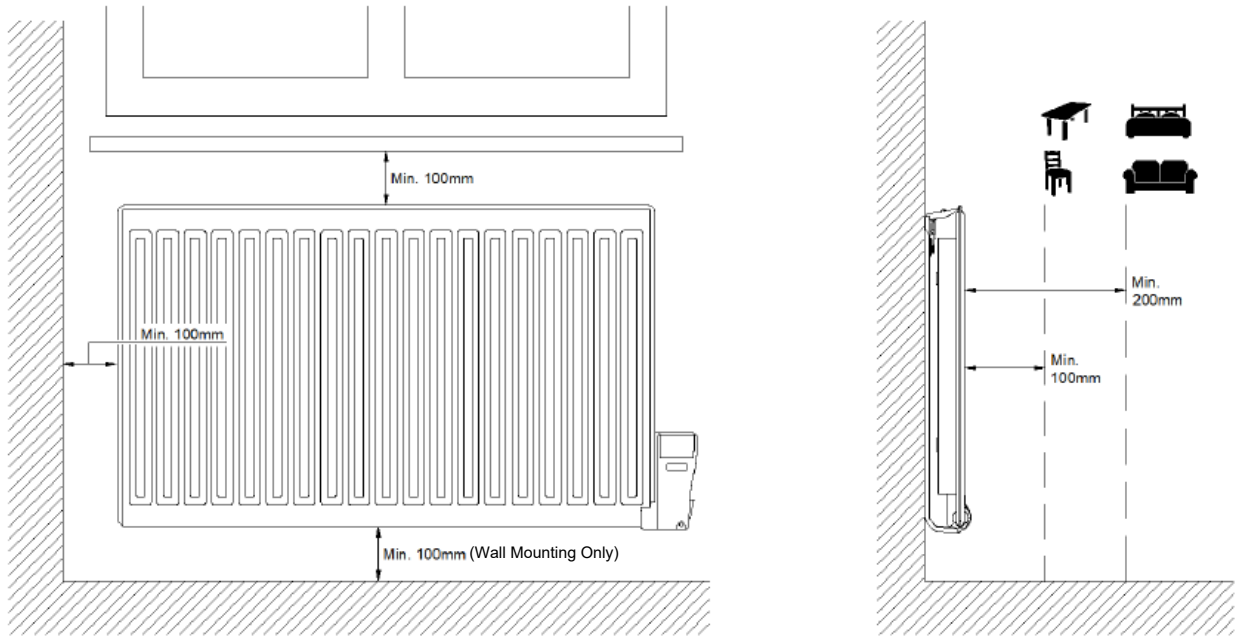
## 2B  For Wall Mounted Bracket Installation



75

88
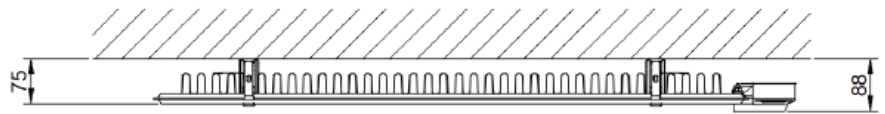
| H (mm) | A* (mm) | B (mm) | C (mm) |
|---|---|---|---|
| **300** | 100 - 150 | 46 | 173 |
| **500** | 100 - 150 | 46 | 373 |

* Recommended distance

Min 100mm
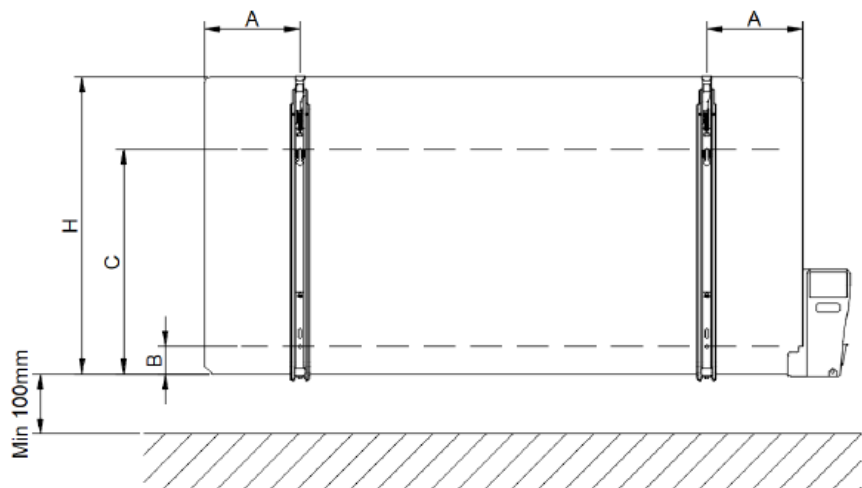
**2C**   For Wall Mounted Bracket Installation
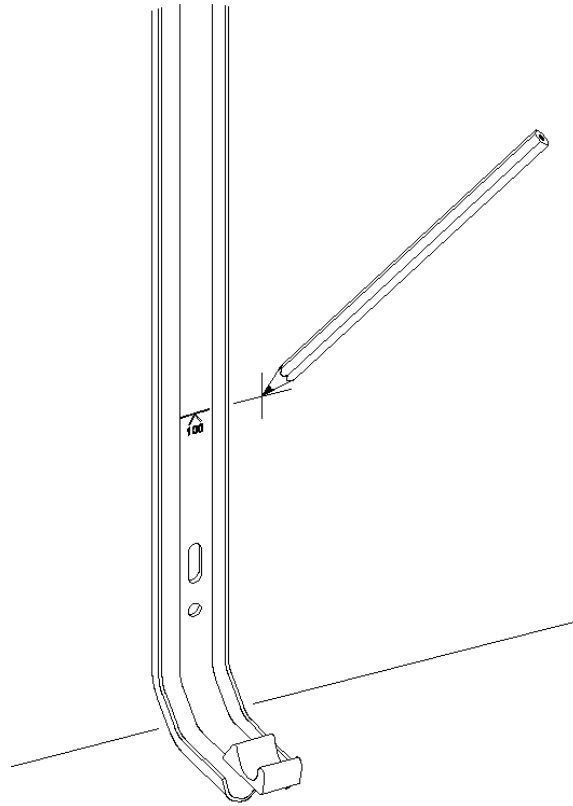
**2D**   For Wall Mounted Bracket Installation

CLICK!
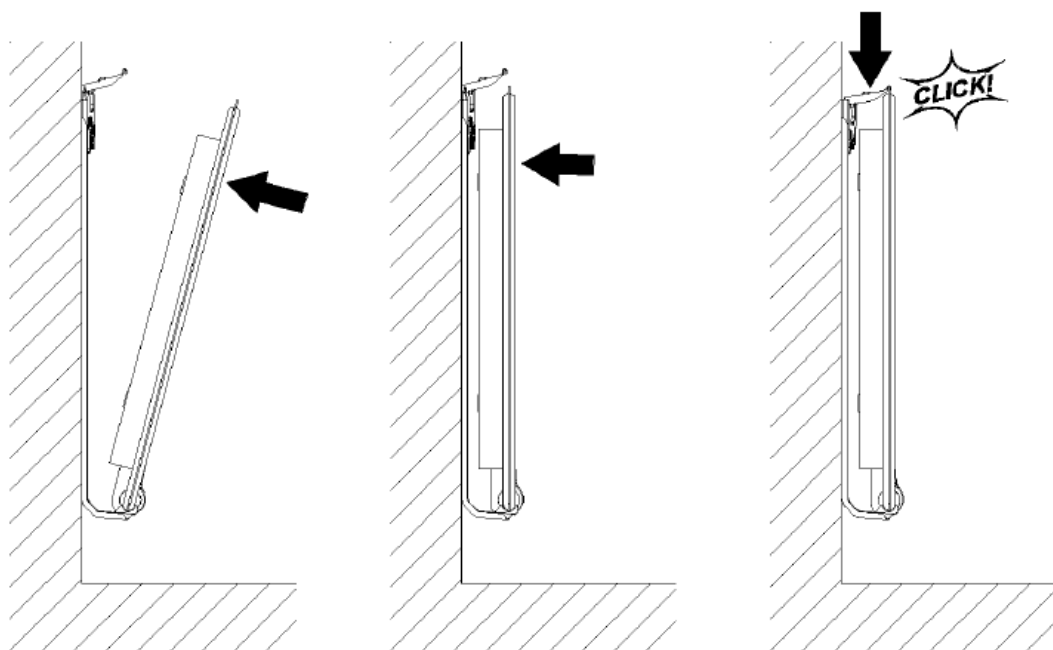
**3A**
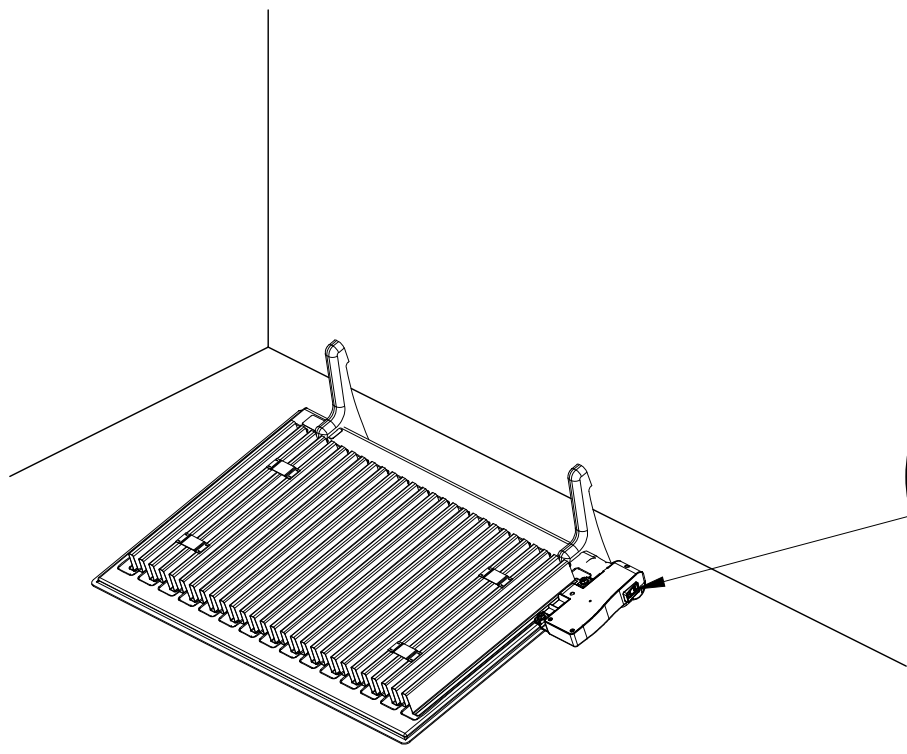
NO
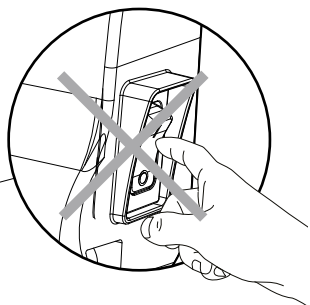
**3B**
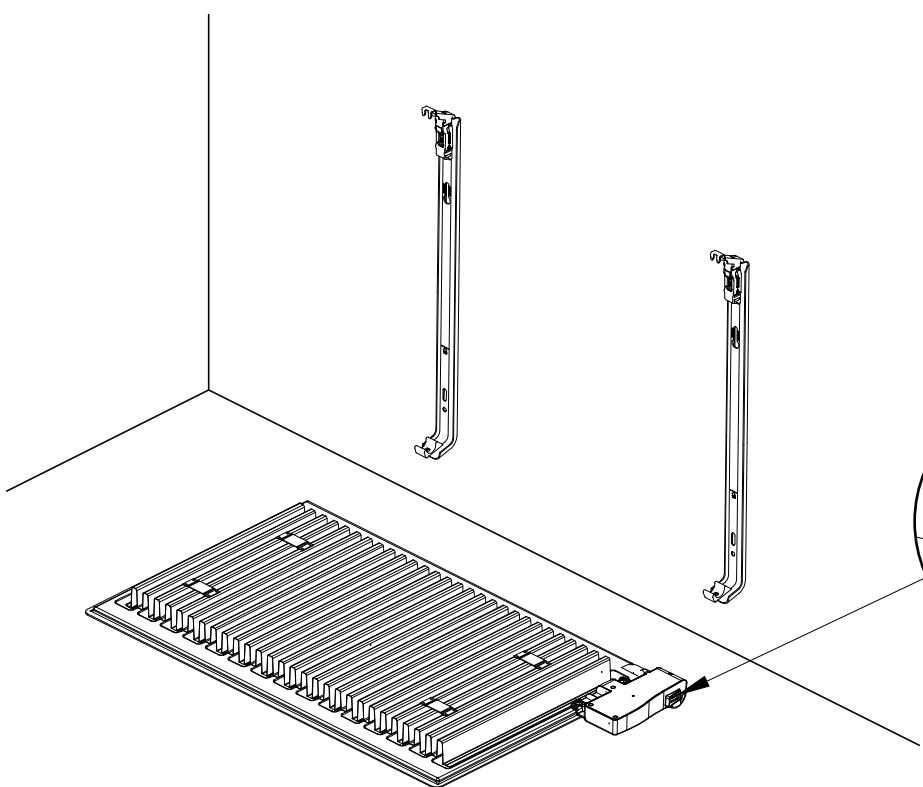
NO
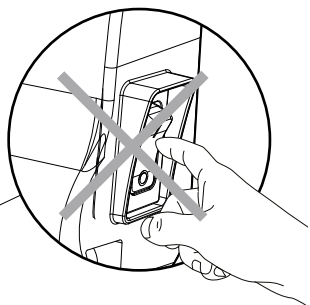
# SAFETY INFORMATION

Due to the safety standard AU/NZS 60335, the text below is obligatory for all electric products, not only radiators.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years. Children of less than 3 years should be kept away from the unit unless continuously supervised. Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.

**AU CAUTION**

**THIS PRODUCT MUST NOT BE INSTALLED IN A BATHROOM OR OTHER SIMILAR HIGH HUMIDITY AREA.**

**AU CAUTION**

**SOME PARTS OF THIS PRODUCT CAN BECOME VERY HOT AND CAUSE BURNS. PARTICULAR ATTENTION HAS TO BE GIVEN WHERE CHILDREN AND VULNERABLE PEOPLE ARE PRESENT. IN ORDER TO AVOID OVERHEATING, DO NOT COVER THE RADIATOR. "DO NOT COVER" MEANS THAT THE RADIATOR MUST NOT BE USED FOR DRYING CLOTHES, FOR EXAMPLE, BY PLACING THEM DIRECTLY ON THE RADIATOR.**

# 1. GENERAL INFORMATION

- This appliance is a sealed electric radiator.
- This appliance conforms to the standards AU/NZS 60335-1 and AU/NZS 60335-2-30.
- This appliance is insulation class I and has electrical protection level IP21.
- This appliance complies with the European Directive 2004/108/EC (CE Marking on all appliances).
  - Radiator for freestanding positioning, or wall mounting (wall brackets to be ordered separately).
  - 230 V – 50 Hz supply.
  - Supplied with 3 core cable and fitted with an earthed plug, and feet.

# 2. INSTALLATION

## POSITIONING

- The radiator must be positioned horizontally in order for it to function correctly.
- The radiator must be positioned according to the applicable standards.
- The radiator must not be located underneath an electrical socket.

## FREE STANDING

- The minimum distances as specified in picture 1A should be carefully observed.
- Only the feet supplied with this product must be used.
- Ensure that the radiator is fitted securely into the supplied feet, as shown in picture 1B.
- Only fit the feet onto the product at the position shown in picture 1C.

## WALL FIXING (Optional)

- The minimum distances as specified in picture 2A should be carefully observed.
- The radiator must be fixed to the wall using the correct wall brackets for this product.
- Mark out the distance between the brackets and the positions of the screw holes, as shown in the table in picture 2B.
- Note that the brackets can be used to measure the height of the bottom fixing hole, see picture 2C.
- Ensure that the radiator is fitted securely into the wall brackets, as shown in picture 2D, and that the fitting instructions supplied with the wall brackets are adhered to.
- For the correct installation of radiators it is essential that the fixing of the radiator is carried out in such a way that it is suitable for intended use AND predictable misuse. A number of elements need to be taken into consideration including the fixing method used to secure the radiator to the wall, the type and condition of the wall itself, and any additional potential forces, or weights, prior to finalising installation.
- The fixing materials provided are only intended for installation on walls made of solid wood, bricks, concrete or on timber-frame stud walls where the fixing is directly into the timber. All walls being considered should have no more than a maximum of 3 mm wall finishing. For walls made of other materials, for example hollow bricks; please consult your installer and/or specialist supplier. **In all cases it is strongly recommended that a suitably qualified professional installer or similar tradesperson carries out the installation.**

## CONNECTION

- The electrical installation must comply with local or national regulations.
- The radiator must be connected to the electrical supply using the supply cable fitted to the unit.
- The radiator is equipped with a non-resettable overheat protection that trips off if the radiator overheats. If the radiator is tipped over when mounted on the supplied feet (picture 3A), or removed from the wall brackets, if ordered separately (picture 3B), even for a short period of time, it must without exception be switched off. This may even trip the non-resettable overheat protection. If the overheat protection trips, its thermal fuse must be replaced; contact your supplier.

# OVERVIEW

Electronic PID control unit for electric radiator, programmable digital control, white color.
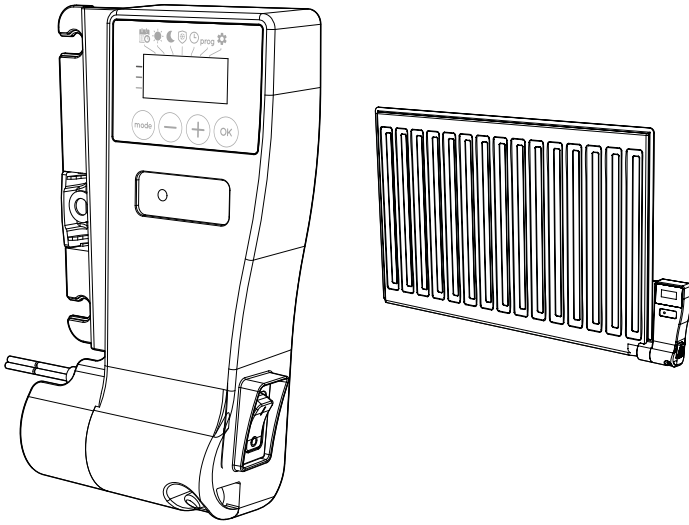


## PRODUCT FEATURES

- **Electronic PID control with microprocessor.**

- **Setting temperature can be viewed in all operating modes.**

- **Double pole ON/OFF switch.**

- **Gauge consumption:** Automatic indication of the level of consumption according to the setting temperature.

- **Energy consumption indication:** posting of the estimated amount of energy consumed in kWh since the last reset to 0 of the energy meter.

- **Open window detection:** Automatic switching to frost protection mode when the device detect a significant drop in temperature.

- **7 day programme:** you have the option, for each day of the week, of assigning five different program profiles.

- **Child anti-tamper:** The control panel can be locked, making changes impossible.

- **Special safety for social or private rental housing:**
  - Limits of the adjustment range of the Comfort setting temperature.
  - PIN code lock of settings reserved for professionals.

- **Active memory:** Permanent backup of the whole of settings and programming, backup date and time of 3hrs.

# OPERATION

## DIAGRAM

- **Buttons overview**
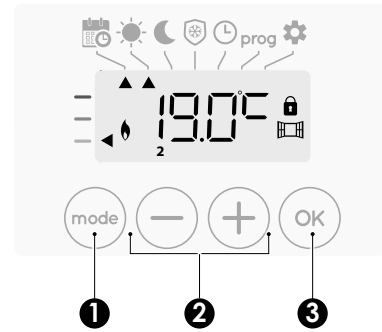


❶ Selecting operating modes

❷ Plus and minus buttons, used to set temperatures, time, date and programs

❸ Save settings

- **Indicators overview**
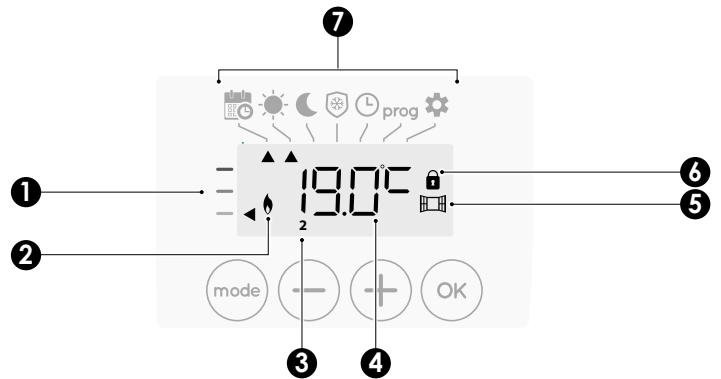


❶ Gauge consumption

❷ Heating indicator

❸ Days of the week (1=Monday ... 7= Sunday)

❹ Setting temperature

❺ Open window detection indicator

❻ Keypad locked

❼ **Operation modes:**

  - Auto mode
  - Comfort mode
  - Eco mode
  - Frost protection mode
  - Time and date setting mode
  - prog Programming mode
  - Settings

**Note**
Before carrying out any setting procedures, ensure that the keypad is indeed unlocked (see page 5).

## POWER ON

### Power on switch

Set the switch in ON position in order to power up the appliance.



## SELECTING THE OPERATING MODE

The (mode) button allows you to adapt the operating schedule of your device to your needs, depending on the season, whether your home is occupied or not.

Press the (mode) button several times to select the required mode.

### Mode sequence:

| 📅🕐 Auto | → | ☀ Comfort | → | 🌙 Eco | → | ❄ Frost Protection |
|---|---|---|---|---|---|---|

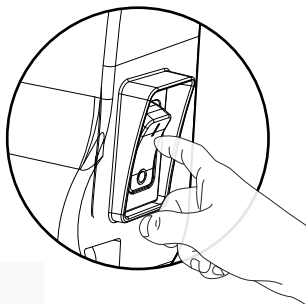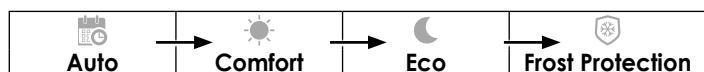| Mode overview | Display |
|---|---|
| • 📅🕐 **Auto mode**<br>In Automatic Mode, the device will automatically change from Comfort mode to Eco mode according to the established programme. |  |

**2 different cases depending on your set-up:**

☐1 **7 day and daily program**
Your device has been programmed and is executing Comfort and Eco mode orders in line with the settings and time periods you have selected (see "7 day and daily program integrated" chapter page 5).

☐2 **Without program**
if the 7 day and daily program is not enabled, then your device's factory settings mean that it will operate in nonstop Comfort mode, 7 days of the week.

| | |
|---|---|
| • ☀ **Comfort mode**<br>Non-stop Comfort mode. The device will operate 24 hours a day to achieve the temperature which has been set (e.g. 19°C). The Comfort mode temperature level can be set by the user (see Setting the comfort mode temperature page 4). |  |
| • 🌙 **Eco mode**<br>Eco, which means the Comfort Mode temperature minus 3.5°C. This enables you to lower the temperature without having to reset the Comfort Mode temperature.<br>Select this mode for shortterm absences (between 2 and 24h ) and during the night. |  |

| Mode overview | Display |
|---|---|
| • ❄ **Frost protection mode**<br>This mode enables you to protect your home against the effects of cold weather (frozen pipes, etc.), by maintaining a minimum temperature of 7°C in it at all times. Select this mode when you will be away from your home for a long time (more than 5 days). |  |
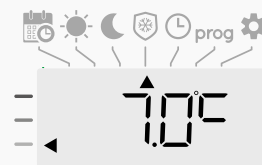
**Restoring factory settings** See pages 10, 12 and 15.

## GAUGE CONSUMPTION, ENERGY SAVINGS

**A Comfort setting temperature lower or equal to 19°C is recommended.**
In the device display, a selector indicates the energy comsumption level by positioning it in front of the colour: red, orange or green. So, depending on the setting temperature, you can choose your level of energy usage. As the temperature setting increases, the consumption will be higher.

The gauge appears in Auto, Comfort, Eco and Frost protection modes and whatever the temperature level.

| | | |
|---|---|---|
| **C - Red colour**<br>High Temperature level: it is advisable to significantly reduce the setting temperature. | **Setting temperature > 22°C**<br>When the setting temperature is higher than 22°C |  |
| **B - Orange colour**<br>Average temperature level: it is advisable to slightly reduce the setting temperature. | **19°C < Setting temperature ≤ 22°C**<br>When the setting temperature is higher than 19°C and lower or equal to 22°C |  |
| **A - Green colour**<br>Ideal temperature. | **Setting temperature ≤ 19°C**<br>When the setting temperature is lower or equal to 19°C |  |

## SETTING THE COMFORT MODE TEMPERATURE

You can access the Comfort temperature set up from the Auto and Comfort Mode. It is preset to 19°C.

Using ⊝ and ⊕ you can adjust the temperature from 7°C to 30°C by intervals of 0.5° C.



**Note:** you can limit the Comfort temperature, see page 9 for more details.

# CONSUMPTION INDICATION ACCUMULATED IN KWH, ENERGY SAVINGS

It is possible to see the estimation of energy consumption in kWh since the last reset of the energy meter.

## ● Display of the estimated power consumption

To see this estimation, from Auto, Comfort, Eco or Frost protection mode, then press ⓞₖ.

To exit the display mode of consumption: press ᵐᵒᵈᵉ or ⓞₖ, the device is automatically in the previous active mode.

## ● Resetting the energy meter

To reset the energy meter, from Auto, Comfort, Eco or Frost protection mode, then proceed as follows.

**1-** Press ⓞₖ.

**2-** Press simultaneously ⊝ and ⊕ for more than 5 seconds.
To exit resetting the energy meter, press ᵐᵒᵈᵉ or ⓞₖ, the device is automatically in the previous active mode.

# CHILD ANTI-TAMPER, KEYPAD LOCK/UNLOCK

## ● Keypad lock

To lock the keypad, press the ⊝ and ⊕ buttons and hold them down for 10 seconds. The padlock symbol 🔒 appears on the display, the keypad is locked.

## ● Keypad unlock

To unlock the keypad, press the ⊝ and ⊕ buttons and hold them down for 10 seconds again. The padlock symbol 🔒 disappears from the display, keypad is unlocked.

# 7 DAY AND DAILY PROGRAM INTEGRATED, ENERGY SAVINGS

In this mode, you have the option of programming your device, by setting one of the five programmes on offer for each day of the week.

## ● Access to the programming mode

From Auto, Comfort, Eco or Frost protection mode, press ᵐᵒᵈᵉ for 5 seconds to enter into the programming mode.

**Schematic sequence of programming settings:**

| Setting time | → | Setting day | → | Programmes choice |
|---|---|---|---|---|

## ● Setting day and time

In this mode, you can set day and time to program your device in line with your needs.

**1-** From Auto, Comfort, Eco or Frost protection mode, press ᵐᵒᵈᵉ for 5 seconds.
The cursor moves to the setting day and time mode.
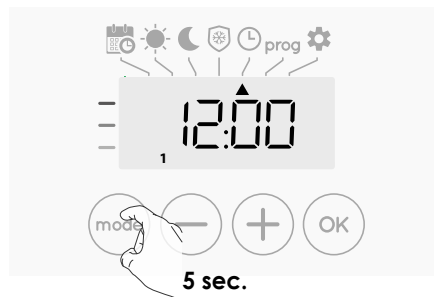
**2-** Select using ⊝ or ⊕. The two hour figures will flash.
The hours will scroll quickly, if you press the ⊝ or ⊕ and hold them.
Save by pressing ⓞₖ.

**3-** The two minute figures will flash.
Select using ⊝ or ⊕.
Save by pressing ⓞₖ.

**4-** The cursor above the number 1 (which represents the Monday) will flash. Select the day using ⊝ or ⊕.
Save by pressing ⓞₖ.

**5-** To change and/or allocate programs press ᵐᵒᵈᵉ. To exit the setting the time and day mode, press ᵐᵒᵈᵉ 3 times.

## • Choices programmes

**Schematic sequence of programmes:**

| Comfort → | Eco → | P1 → | P2 → | P3 |
|-----------|-------|------|------|-----|
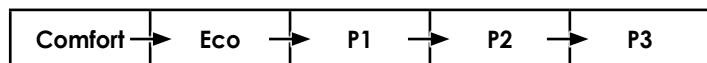
**Your device's default setting is non-stop Comfort for 7 days a week.**

## • Programmes overview

- **Comfort:** your device will operate in Comfort mode, 24 hours a day, as regards each day selected.
  **Note:** You can set the Comfort mode temperature to the temperature you require (see Setting the comfort mode temperature page 4).
- **Eco:** The device will operate 24 hours a day in Eco mode.
  **Note:** You can set the temperature-lowering parameters (see Setting the Eco mode temperature lowering-level page 9).
- **P1:** your device will operate in Comfort mode from 06:00 to 22:00 (and in Eco mode from 22:00 to 06:00).
- **P2:** your device will operate in Comfort mode from 06:00 to 09:00 and from 16:00 to 22:00 (and in Eco mode from 09:00 to 16:00 and from 22:00 to 06:00).
- **P3:** your device will operate in Comfort mode from 06:00 to 08:00, from 12:00 to 14:00 and from 18:00 to 23:00 (and in Eco mode from 23:00 to 06:00, from 08:00 to 12:00 and from 14:00 to 18:00).

## • Potential modifications of programmes

If the default time schedules for the P1, P2 and P3 programmes does not suit your routines, you can change them.

**Modifying the P1, P2 or P3 programmes.**
**If you modify the time schedules for the P1, P2 or P3 programmes, the schedules will be modified for all the days of the week for which P1, P2 or P3 had been set.**

**1-** If you just set the time and day, go to step 2.

From Auto, Comfort, Eco or Frost protection mode, press (mode) for 5 seconds.

When the cursor moves above the setting time symbol ⏱, press (mode) shortly.



**2-** Press ⊖ or ⊕. The cursor moves above **prog**.



**3-** With ⊖ or ⊕, select P1.
P1 will flash. Press (OK) for 5 seconds to make changes.



**5 sec.**
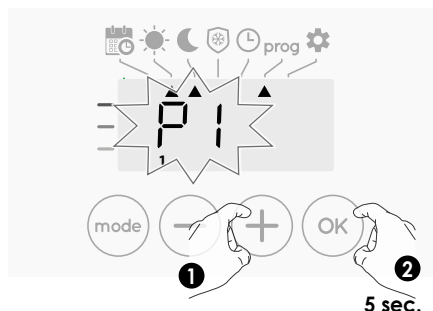
**4-** The P1 start time (which by default is 06:00) will flash.
Using ⊖ or ⊕, you can change this time, by increments of 30 minutes.



Save by pressing (OK).

**5-** The P1 end time (which by default is 22:00) will flash. Using ⊖ or ⊕, you can change this time, by increments of 30 minutes.



Save by pressing (OK).

**6-** Press (mode) to exit the programming Mode and return to Auto Mode.

**Note:** without action on the keys, it will return to Auto after a few minutes.

## • Choices and allocation programs

**1-** If you just set the time and day, the cursor moves automatically under **PROG**.

From Auto, Comfort, Eco or Frost protection mode, then press (mode) for 5 seconds. When the cursor positionned under the set time symbol ⏱, press (mode) again.

**Prior information:**
display area



| Correspondence days / numbers | |
|---|---|
| Monday | 1 |
| Tuesday | 2 |
| Wednesday | 3 |
| Thursday | 4 |
| Friday | 5 |
| Saturday | 6 |
| Sunday | 7 |

The days of the week will scroll on display with the programmes that you set for them, meaning Comfort $\underline{C}\underline{O}\underline{n}\underline{F}$ every day.



**2-** Press $\ominus$ or $\oplus$.

The programme set for day 1 (1= Monday, 2 = Tuesday, etc.) will flash.



**3-** Chose the program you want for this day with $\ominus$ or $\oplus$.
Save by pressing $\overline{ok}$.
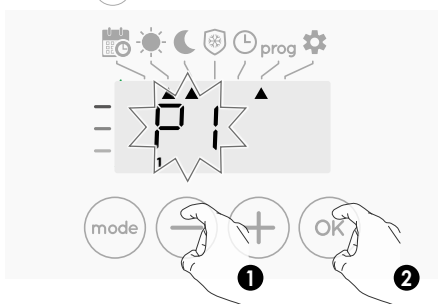


**4-** The programme assigned to the second day of the week (Tuesday) will flash.

Repeat the procedure described previously (in point 3) for each day of the week.
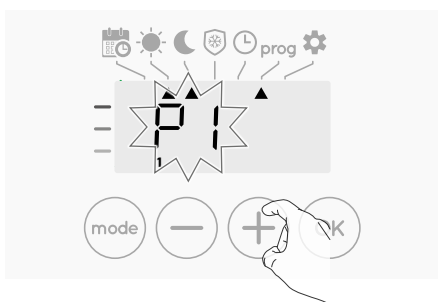


**5-** Once you have chosen a programme for each day, confirm your selection by pressing $\overline{ok}$. The days of the week will successively scroll on display with the programmes that you set for them (P1, P2, P3, CONF or ECO).

To exit the Programming mode, press (mode) twice.

### ● Viewing the programs that you have selected

- From Auto, Comfort, Eco or Frost protection mode, press (mode) for 5 seconds. Press (mode) twice, the programme for each day of the week (Comfort, Eco, P1, P2 or P3) will scroll on display in front of you.

- To exit the programme viewing mode, press (mode) twice.

### ● Manual and temporary exemption from a running program

This function allows you to change the Eco mode temperature temporarily until the next scheduled change in temperature or the transition to 0:00.

**Example:**

**1-** The device is in Auto mode, the running programme is Eco 15,5°C.
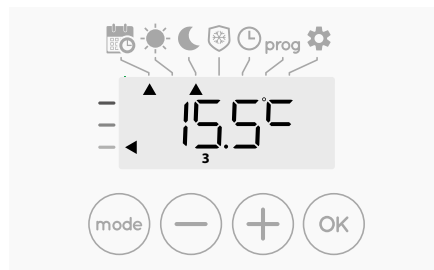


**2-** By pressing $\ominus$ or $\oplus$, you can change temporarily the desired temperature up to 18°C for example.
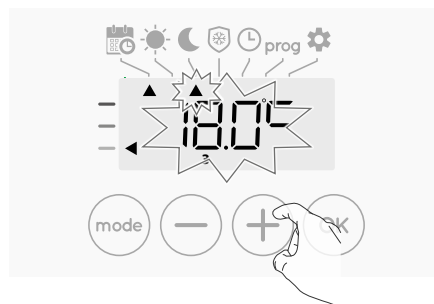


**Note:** The cursor corresponding to the operating mode, i.e Eco mode in our example, is blinking during the duration of the temporary derogation.

**3-** This change will be automatically cancelled at the next change of program or transition to 0:00.

# OPEN WINDOW DETECTION, ENERGY SAVINGS

## ● Important information about the open window detection

**Important:** the open window detection is sensitive to temperature variations. The device will react to the window openings in accordance with different parameters: temperature setting, rise and fall of temperature in the room, outside temperature, location of the device...

If the device is located close to a front door, the detection may be disturbed by the air caused by opening door. If this is a problem, we recommend that you disable the automatic mode open window detection . You can, however, use the manual activation .



**Legend**

① = the favoured location

② = another location
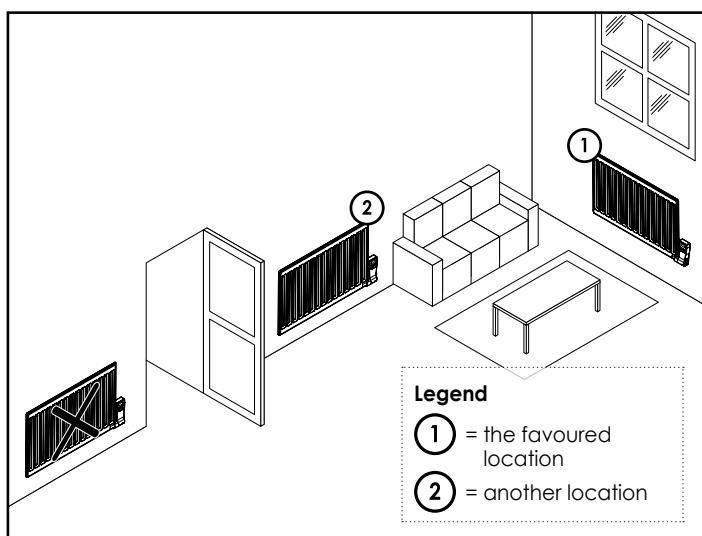
## ● Overview

Lowering temperature cycle by setting frost protection during ventilation of a room by opened window. You can access the open window detection from the Comfort, Eco and Auto modes. Two ways to enable the detector:

- **Automatic activation,** the lowering temperature cycle starts as soon as the device detects a temperature change.
- **Manual activation,** the cycle of lowering temperature starts by pressing a button.

## ● Automatic activation (factory settings)

To disable this mode,
The device detects a temperature fall. An opened window, a door to the outside, can cause this temperature fall.

**Note:** The difference between the air from the inside and the outside must cause a significant temperature fall to be perceptible by the device.

This temperature drop detection triggers the change to Frost Protection mode.

## ● Manual activation

By pressing ⊖ for more than 5 seconds, the device will switch on Frost protection mode.



**5 sec.**
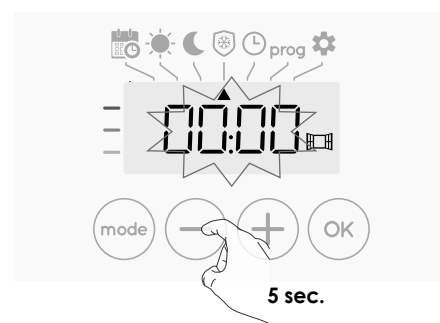
## ● Frost protection digital meter

When the device performs a lower temperature cycle due to opened window, a meter appears on the display to show the cycle time. The counter is automatically reset at the next time to Frost protection by opened window (automatic or manual activation).

## ● Stop the Frost protection mode

By pressing one button, you stop the Frost protection mode.

**Note:** if a temperature rise is detected, the device may return to the previous mode (active mode before the open window detection).

# INFORMATION ABOUT PRIORITIES BETWEEN THE DIFFERENT MODES

## ● Principle

**In Comfort, Eco and Frost protection modes,** only orders of the open window sensor will be considered.

**In Auto mode,** the product can follow different orders coming from :
- 7 day and daily programming integrated (Comfort or Eco orders);
- Open window detector.

**In general, it is the lowest received order which prevails.**
**If an open window is detected, switching to frost protection takes precedence.**

## • Example

|   |   |   |
|---|---|---|
| **+** | 7 day and daily programming | = Eco |
|   | Open window detector | = Frost protection |

**=** **Frost protection**
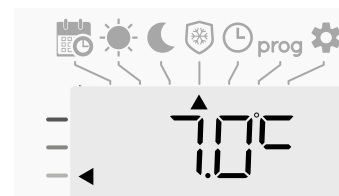
# USER SETTINGS

## *ACCESS*

You access to user settings in 3 steps:
From Auto, Comfort, Eco or Frost protection mode :
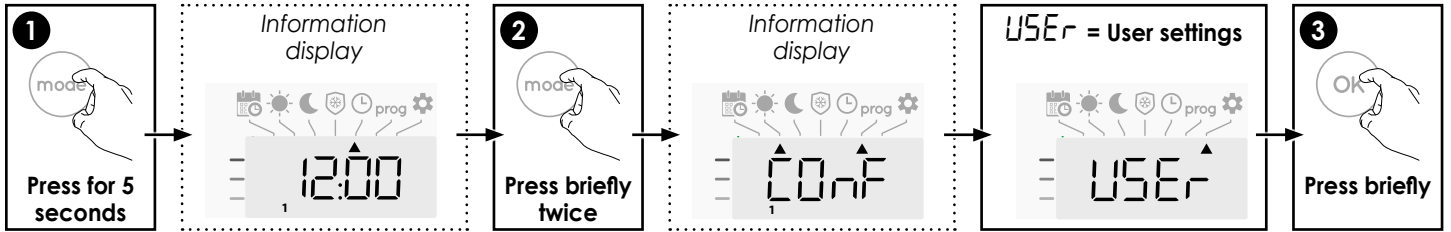


**Setting sequence:**
Eco mode temperature lowering-level ➔ Frost protection temperature ➔ Comfort setting temperature limit ➔ Temperature unit

## *SETTING THE ECO MODE TEMPERATURE LOWERING-LEVEL*

The drop in temperature is set at -3.5°C compared to the set temperature of the Comfort mode. You can adjust the lowered level from -1°C to -8°C, by intervals of 0.5°C.
**Important: whatever the lowering level set, the Eco setting temperature will never exceed 19°C.**

**1-** Press ⊖ or ⊕ to obtain the temperature level you require.



**2-** Press ⊙ᴋ to save and move to the next setting.



To exit the user settings, press (mode) twice.

## *SETTING THE FROST PROTECTION TEMPERATURE*

Your device is preset at 7°C. You can adjust the Frost protection temperature from 5°C to 15°C, by intevals of 0.5°C.

**3-** Press ⊖ or ⊕ to obtain the temperature you require.
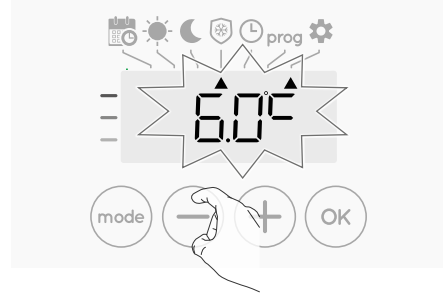


**4-** Press ⊙ᴋ to save and move to the next setting.
   To exit the user settings, press (mode) twice.

## *COMFORT SETPOINT TEMPERATURE LIMIT*

You can limit the setting temperature range by introducing a maximum and / or minimum setting, preventing unintentional changes in temperature.

#### • **Low temperature limit**

Locking of the setting range using a minimum temperature stop, preventing the temperature from being set below that temperature.
The minimum setting is preset to 7°C. You can adjust from 7°C to 15°C by intervals of 1°C.

**5-** To change the minimum temperature setting, press ⊖ or ⊕ then save by pressing ⊙ᴋ.

If you do not want to change it, press (OK): the device changes automatically to set the maximum setting. To exit the user settings, press (mode) twice.

• **High temperature limit**

Locking of the setting range using a maximum temperature increase, preventing the temperature from being set above that temperature.
The maximum setting is preset to 30°C. You can adjust from 19°C to 30°C by intervals of 1°C.

**6-** To change the maximum temperature setting, press (−) or (+).
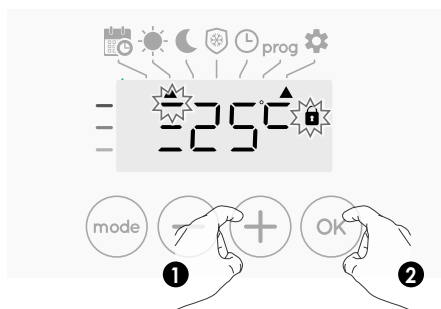


To save and move automatically to the next setting, press (OK). To exit the user settings, press (mode) twice.

## *SETTING THE TEMPERATURE UNIT*

The pre-set temperature unit is degrees Celsius. This setting cannot be changed on this version.

**7-** To move automatically to the next setting, press (OK). To exit the user settings, press (mode) twice.

## *RESTORING FACTORY SETTINGS*

In order to a coming back to factory settings, proceed in the following order:

**1-** From the setting of the temperature unit, press (OK). ⌐E5⌐ appears on the display.



**2-** n☐ appears. Press (−) or (+) to select YE5.



YE5 = Factory settings reset
n☐ = Factory settings not reset

**3-** Press the key (OK) for 5 seconds. The device returns to its initial configuration and goes back automatically to the home display of the user settings.



The following factory values will be effective:

| Parameters | Factory settings |
|---|---|
| **Operating** | |
| **Comfort setting temperature** | 19°C |
| **Keypad lock** | Disabled |
| **User settings** | |
| **Eco mode temperature lowering-level** | -3,5°C |
| **Frost protection temperature** | 7°C |
| **Minimum set of Comfort setting temperature** | 7°C |
| **Maximum set of Comfort setting temperature** | 30°C |
| **Temperature unit** | °C |

Press (mode) to exit the user settings.

# INSTALLER SETTINGS

## ACCESS

You access to installer settings in 4 steps:
From Auto, Comfort, Eco or Frost protection mode :

**❶** Press for 5 seconds → *Information display* `12:00` → **❷** Press briefly twice → *Information displays* `ConF` / `USEr` → **❸** Press for 10 seconds → `InSt` = Installer settings → **❹** Press briefly
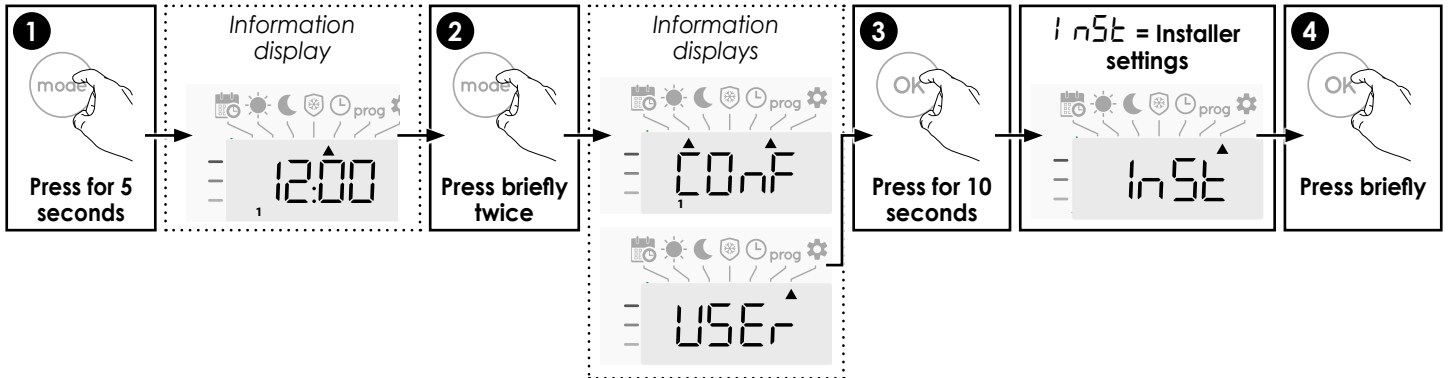
**Setting sequence:**

Open window detection ➜ PiN code lock ➜ Restoring factory settings

## OPEN WINDOW DETECTION, ACTIVATION/ DEACTIVATION OF THE AUTO MODE

The automatic mode enabled is the default setting.

`On`
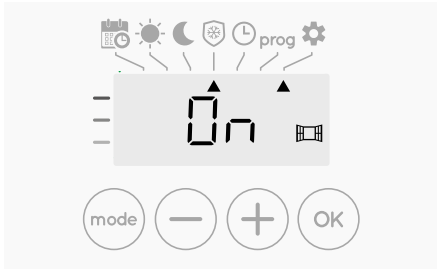
1- Press ⊖ or ⊕.

`On` = automatic mode enabled.
`OFF` = automatic mode disabled.

`OFF`

2- To save and move automatically to the next setting, press ⊙ₖ. To exit the user settings, press ⊙ₘₒdₑ 3 times.

## PIN CODE LOCK

### ● Overview

Your heating device is protected by a safety code against nonauthorised use. The PIN code (Personal Identity Number) is a customisable 4 numbers code. When enabled, it prevents access to the following settings:

- Selecting the Comfort mode : The access to the Comfort mode is forbidden, only the Auto, Eco and Frost protection modes are available.

- Minimum and maximum Limits of the setting temperature range (the Comfort temperature modification is forbidden out of the authorised setting range).
- Programming mode.
- Open window detection settings.
- Setting the Eco mode temperature lowering-level.
- Setting the Frost protection temperature.

3 important steps are needed for the first use of the PIN code lock:

**1 - PIN code initialisation,** enter the preset PIN code (0000) to access to the feature.

**2 - Activation of the PIN Code** to lock settings which will be protected by the PIN code.

**3 - Customizing the PIN code,** replace 0000 by the custmized code

### ● PIN code initialisation

By default, the PIN code is not enabled. `OFF` appears on the display.

1- By default registered PIN code is 0000.
Press ⊖ or ⊕ to select 0. It is blinking. Save by pressing ⊙ₖ.

`0--` **❶** **❷**

2- For others numbers, select 0 by press ⊙ₖ.
When 0000 appears, press on ⊙ₖ again to save and exit.

`00--`

The PIN code is initialized, the next setting automaticaly appears: PIN Code activation.

### ● Activation/deactivation of the PIN Code

**1-** $OFF$ appears on the display.

Press $-$ or $+$ to enable PIN code.

$On$ appears on the display.

$On$ = PIN code enabled
$OFF$ = PIN code disabled

**2-** Press $OK$ to save and return to the home installer settings display.
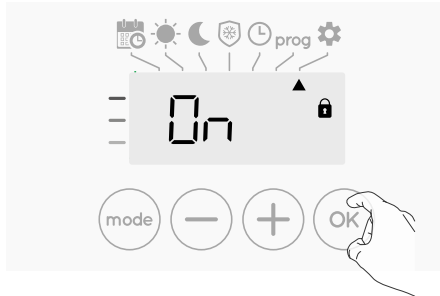
The PIN code is enabled. Any modification of reserved settings listed in "Overview" is now impossible.

### ● Customizing the PIN code

If you have just activated the PIN code, follow the stages described below.

Alternatively, you must copy the steps 1 and 2 of the initialisation process as well as the steps 1 and 2 of the activation process before personalising the PIN code.

Please remember that the personalisation of the PIN code can only be set once the initialisation and activation of the PIN code has been completed.

**1-** When $On$ appears, press $OK$ for at least 5 seconds.

**5 sec.**
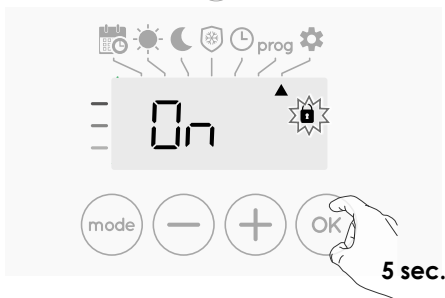
**2-** The 0000 code appears and the first number blinks. Press $-$ or $+$ to select the first desired number then press $OK$ to save and exit. Repeat this operation for remaining 3 numbers.

❶          ❷
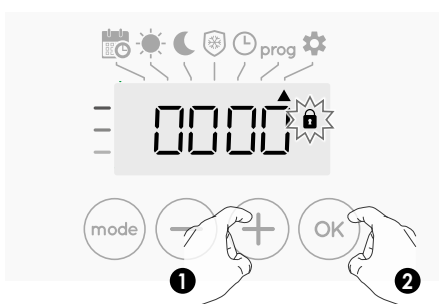
**3-** Press $OK$ to confirm. The new code is now saved.
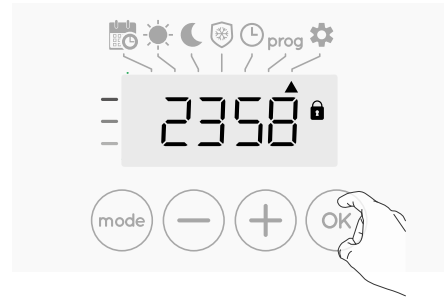
**4-** Press again on $OK$ to exit setting PIN code mode and go back to the home display of the installer settings.
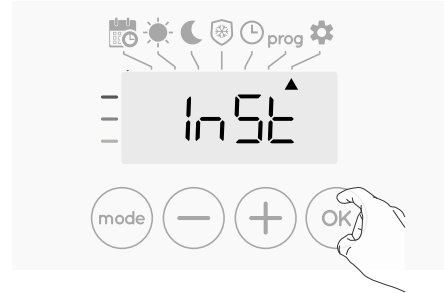
To exit the Installer settings, press mode twice.

## RESTORING FACTORY SETTINGS

If the PIN code protection is disabled, the user and installer settings are re-initialized:

**1-** From the PIN code setting, press $OK$. $rESt$ appears briefly on the display.

**2-** $nO$ appears. Press $-$ or $+$ to select $YES$.

$YES$ = Factory settings reset
$nO$ = Factory settings not reset

**3-** Press the key (OK) for 5 seconds. The device returns to its initial configuration and goes back automatically to the home display of the installer settings.



**5 sec.**

The following factory values will be effective:

| Settings | Factory settings |
|---|---|
| **Operating** | |
| **Comfort setting temperature** | 19°C |
| **Keypad lock** | Disabled |
| **User settings** | |
| **Eco mode temperature lowering-level** | -3,5°C |
| **Frost protection temperature** | 7°C |
| **Minimum set of Comfort setting temperature** | 7°C |
| **Maximum set of Comfort setting temperature** | 30°C |
| **Temperature unit** | °C |
| **Installer settings** | |
| **Automatic open window detection** | Enabled |
| **PIN code protection** | Disabled |
| **Value of the PIN code** | 0000 |

To exit the installer settings, press (mode) twice.

# EXPERT SETTINGS

## ACCESS

You access to expert settings in 5 steps.
From Auto, Comfort, Eco or Frost protection mode :
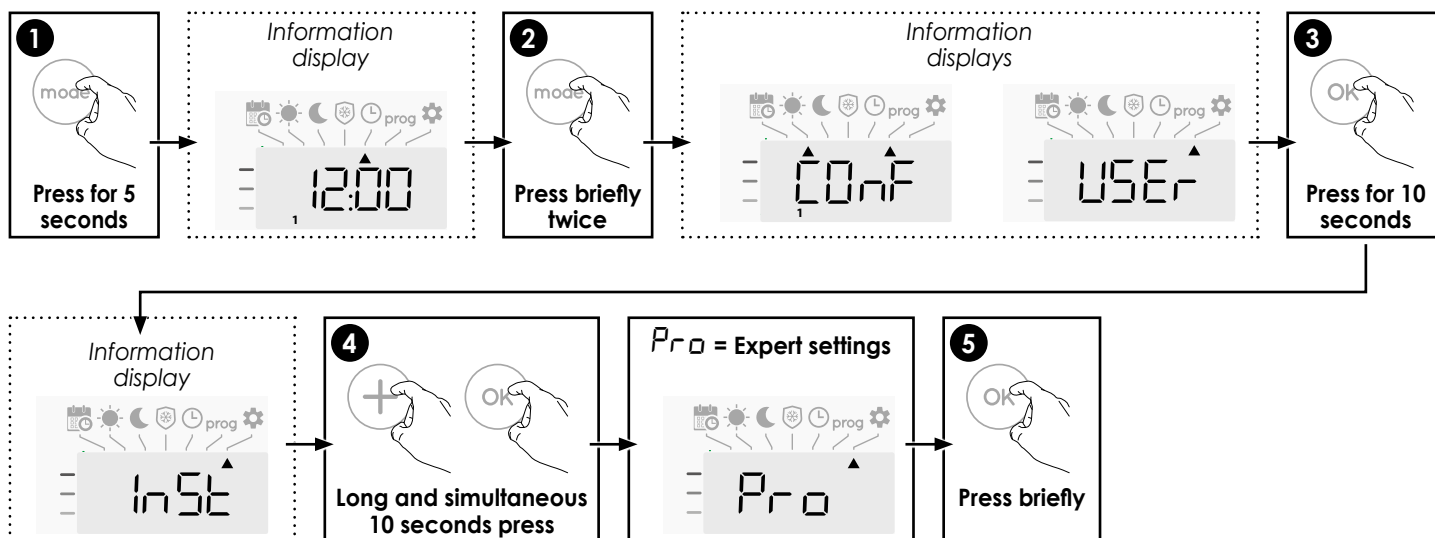


**Setting sequence:**

Ambient temperature sensor adjustement ➜ Setting the power ➜ Restoring factory settings

## AMBIENT TEMPERATURE SENSOR ADJUSTEMENT

● **Overview**

**Important: This operation is reserved for professional installers only; any wrong changes would result in control anomalies.**

In which case if the temperature measured (measured by reliable thermometer) is different by at least 1°C or 2°C compared to the setting temperature of the radiator.

The calibration adjusts the temperature measured by the ambient temperature sensor to compensate for a deviation from + 5°C to - 5°C by intervals of 0.1°C.

● **Ambient temperature sensor adjustement**

**1-** **If the room temperature difference is negative, example :**
Setting temperature (what you want) = 20°C.
Ambient temperature (what you read on a reliable thermometer) = 18°C.
Difference measured = -2°C.

**Important: Before carrying out the calibration it is recommended to wait for 4h after the setting temperature modification to insure that the ambient temperature is stabilized.**

To correct, then proceed as follows :

Sensor temperature = 24°C

**(The measured temperature may be different due to the location of the thermostat in the room).**



Decrease the temperature measured by the ambient temperature sensor by 2°C by pressing (−).

In our example the measured temperature by the sensor goes from 24°C to 22°C.



**2- If the room temperature difference is positive, example :**

Setting temperature (what you want) = 19°C.
Ambient temperature (what you read on a reliable thermometer) = 21°C.
Difference measured = +2 °C.

To correct, then proceed as follows :

Sensor temperature= 21°C.

**(The measured temperature may be different due to the location of the thermostat in the room).**



Increase the temperature measured by the ambient temperature sensor by 2°C by pressing (+).

In our example the measured temperature by the sensor goes from 21°C to 23°C.



To validate, save the new value and exit the mode, press (OK). To exit the Expert settings, press (mode) 3 times.

● **The reset to zero of the sensor calibration**

To put the value of the correction to "0", do the following :

**1-** When the temperature measured by the sensor appears, press (−) or (+) for at least 3 seconds.
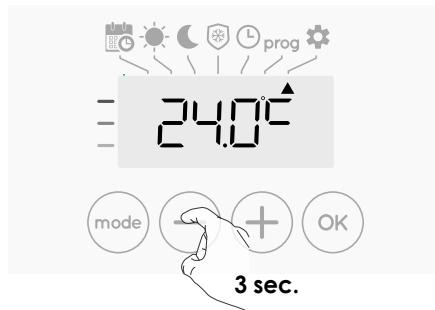


**3 sec.**

**2-** To save and move automatically to the next setting press (OK). To exit the Expert settings, press (mode) 3 times.

⚠ **Important: These changes should be performed by a qualified staff, it should be performed in production or on site during the first installation**

## SETTING THE POWER

To have a controller adapted to the radiator and estimate the energy consumed, it is essential to set the power of the device.

**NOTE:** This does not affect the actual power of the product, or the way in which it operates.

**1-** Pre set value: 0W. Select a value between 0W and 1250W by pressing (−) or (+).



**2**- To save and move automatically to the next setting press (OK).



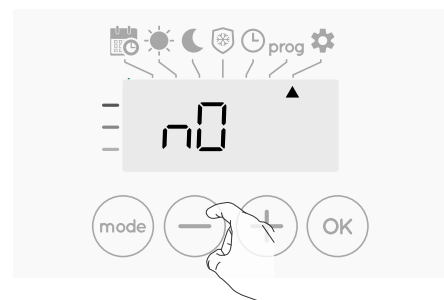**3-** To save the Expert settings, press (mode) 3 times.

## RESTORING FACTORY SETTINGS

If the PIN code protection is disabled, the user, installer and expert settings are re-initialized:

**1-** From the Power setting setting, press ⓞ. ⌐E5Ł appears on the display.

**2-** ∩◻ appears. Press ⊖ or ⊕ to select YE5.
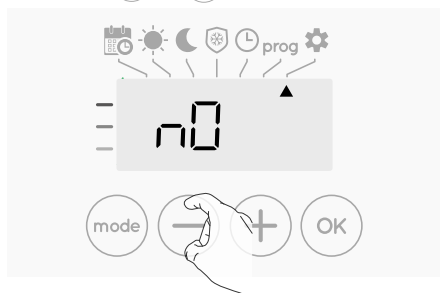
YE5 = Factory settings reset
∩◻ = Factory settings not reset

**3-** Press the key ⓞ for 5 seconds. The device returns to its initial configuration and goes back automatically to the Auto mode.

The following factory values will be effective:

| Settings | Factory settings |
|---|---|
| **Operating** ||
| Comfort setting temperature | 19°C |
| Keypad lock | Disabled |
| **User settings** ||
| Eco mode temperature lowering-level | -3,5°C |
| Frost protection temperature | 7°C |
| Minimum set of Comfort setting temperature | 7°C |
| Maximum set of Comfort setting temperature | 30°C |
| Temperature unit | °C |
| **Installer settings** ||
| Automatic open window detection | Enabled |
| PIN code protection | Disabled |
| Value of the PIN code | 0000 |
| **Experts settings** ||
| Power | 0W |

To exit the Expert settings, press (mode) 3 times.

## REMOTE MANAGEMENT BY POWER SHUTDOWN

⚠ **Important : The power supply of the device should only be cut when working on the electrical system. The product should not be connected to an external control system where the electrical supply to the product is turned on and off to control the temperature as this will damage the electronic components, therefore shortening the life of the product and is not covered by the warranty.**

## IN CASE OF A POWER CUT

- **In case of power shutdown or power off by the switch,** the clock must be set again. All the other settings are automatically and permanently saved.

# 5. MAINTENANCE, REPAIR AND DISPOSAL

- **WARNING**: Disconnect electrical supply before carrying out any maintenance activity.
- The product can be cleaned using a soft damp cloth. Do NOT use chemical or abrasive cleaners as they will damage the surface finish.
- The radiator is equipped with an overheat protection that cannot be reset (melt fuse). This overheat protection disconnects the current if the radiator becomes too hot (e.g. when covered) or if, when freestanding, is knocked over and left in this position.
- If the supply cord is damaged, it must be replaced by the manufacturer, his service agent or similar qualified persons in order to avoid a hazard.
- The radiator is filled with an exact amount of environmental friendly vegetable oil. Any repairs that require the radiator to be opened shall therefore only be carried out by the manufacturer or his approved agent. Please contact the manufacturer or his agent in case of leakage.
- When scrapping the radiator, follow the regulations concerning the disposal of oil.

# 6. TECHNICAL CHARACTERISTICS

| | |
|---|---|
| **ENVIRONMENTAL CONDITIONS:**<br>- Operating temperature<br>- Storage temperature | -30°C to +50°C<br>-30°C to +70°C |
| **SETTING TEMPERATURE RANGE**<br>- Comfort mode<br>- Frost protection mode | +5°C to +30°C<br>+7°C |
| **ELECTRICAL INSULATION** | Class I |
| **ELECTRICAL PROTECTION** | IP 21 |
| **POWER SUPPLY** | 230 VAC – 50 Hz |
| **DIRECTIVES & STANDARDS:**<br>The product has been designed to comply with the following Directives and Standards. | • EN 60730-1<br>• AU/NZS 60335-1<br>• EN 60335-1<br>• AU/NZS 60335-2-30<br>• EN 60335-2-30<br>• EN 62233<br>• EN 55014-1<br>• EN 55014-2<br>• EN 61000-3-2<br>• EN 61000-3-3<br>• EN 60529<br>• LV Directive 2014/35/EU<br>• EMC Directive 2014/30/EU<br>• RoHS Directive 2011/65/EU<br>• ECO Directive 2015/1188<br>• REACH Regulation 1907/2006/EU |

# Warranty

**Our warranty**

This warranty is given by Thermosoft Australia Pty Ltd ABN 90 657 190 004 (we, our or us). It applies to goods and services that we supply to customers in Australia.

You are entitled to a replacement or refund if there is a major failure in our goods. You are also entitled to have the goods repaired or replaced if they fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty applies during the warranty period and is subject to the warranty limitations and limitations of liability below.

We limit our liability for indirect and consequential losses, loss of profit or any reasonably foreseeable losses to the full extent permitted by the law.

**Statutory warranty for consumers**

Our goods and services come with guarantees that cannot be excluded under the Australian Consumer Law. For major failures with the service, you are entitled:

- to cancel your service contract with us; and
- to a refund for the unused portion, or to compensation for its reduced value.

You are also entitled to choose a refund or replacement for major failures with goods. If a failure with the goods or a service does not amount to a major failure, you are entitled to have the failure rectified in a reasonable time. If this is not done you are entitled to a refund for the goods and to cancel the contract for the service and obtain a refund of any unused portion. You are also entitled to be compensated for any other reasonably foreseeable loss or damage from a failure in the goods or service.

Your benefits as a consumer under this warranty are in addition to your other rights and remedies under a law in relation to the goods or services to which this warranty relates.

**Warranty period**

*For Purmo heating products, Purmo radiators and FINIMETAL Towel Rails:*

10 years from the date the goods are purchased, in the case of the radiator or towel rail body.

2 years from the date the goods are purchased, in the case of electronic components and any spare parts sold separately. This includes, for example, side covers, top grilles, plastic clips, plugs, fixing parts and electric and electronic components.

*For services:*

- 12 months from the date of repair services or until the end of the initial warranty period for the repaired goods, whichever is later.

**Costs of claiming the warranty**

You must bear the cost of returning the goods to us for a warranty claim and we will bear the reasonable costs of returning the goods to you if we accept the claim.

If the goods are not covered by the warranty, you will be responsible for the costs of repairs, parts, handling and transport. If our initial evaluation is that the warranty will not apply, we may require a purchase order and payment for the anticipated costs before we inspect or repair the goods. We may hold the goods until our costs are paid.

**Thermosoft Australia**
159 Barkly Avenue Burnley, VIC 3121

www.thermosoftaustralia.com.au
Email: info@thermosoftaustralia.com.au
Call: 1800 951 439

**Warranty limitations**

Generally, the warranty may not apply if:

- the goods are not stored or transported in dry conditions;
- mechanical damage to the goods is caused by misuse (for example, due to an overload as a result of sitting on the radiator or towel rail);
- a defect in the goods is the result of ordinary wear and tear, external factors, or causes damage that could be avoided if you were to promptly notify us of the defect; or
- the goods are used other than in accordance with our instructions or specifications, in abnormal conditions, operated above their rated capacity, or improperly installed or maintained.

In addition, in the case of radiators and towel rails, the warranty may not apply if:

- the goods are not mounted in compliance with the instruction manual and Australian standards;
- the goods are used for heating outside of normal indoor environments; or
- the goods are subject to internal or external corrosion or deformation caused by excessive force or pressure;
- the goods are exposed to corrosive substance activity or permanent or temporary moistness (for example, where the goods are installed in commercial laundries, public toilets, or other rooms with high activity of corrosive substances in the air).

None of these limitations on the warranty will apply if they restrict or exclude your rights under the Australian Consumer Law or any other legislation.

**Repairs**

We generally use new goods and parts for replacements and repairs. However, in some cases, goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods. If the goods are capable of retaining user-generated data, repair of the goods may result in loss of the data

**Instructions for use**

Radiators and convectors require periodic cleaning. It is recommended to use only soft and gentle fabrics that can be slightly moistened. For cleaning the radiators and towel rails it is not advised to use aggressive or corrosive agents (e.g. acidic solvents or agents with chlorine). Panel radiators cannot be used for drying wet or damp objects put on the radiator. We do not accept claims for damages to painted surfaces due to improper handling or maintenance.

**Warranty claim procedure**

To make a warranty claim, please contact us and provide an invoice as proof of purchase. We may also require photographs of goods that you claim are defective and we may inspect the area in which the goods are mounted.

The goods are to be returned to our office or an address nominated by us. Our contact details are:

Freecall: 1800 951 439
Email: info@thermosoftaustralia.com.au
159 Barkly Avenue,
Burnley, VIC 3121

**Thermosoft Australia**
159 Barkly Avenue Burnley, VIC 3121

www.thermosoftaustralia.com.au
Email: info@thermosoftaustralia.com.au
Call: 1800 951 439

**Model identifier(s):** AU  KABA P xx xxx 10 230 yy 1

where "x" may be any character, and "yy" is the rated power in kW multiplied by 10, rounded to zero decimal

places.

| Item | Symbol | Value | Unit | Item | Unit |
|------|--------|-------|------|------|------|
| **Heat Output** | | | | **Type of heat output, for electric storage local space heaters only** | |
| Nominal heat output where "yy" = 03 | $P_{nom}$ | 0.25 | kW | manual heat charge control, with integrated thermostat | N.A. |
| Nominal heat output where "yy" = 05 | $P_{nom}$ | 0.50 | kW | manual heat charge control, with room and/or outdoor temperature feedback | N.A. |
| Nominal heat output where "yy" = 08 | $P_{nom}$ | 0.75 | kW | electronic heat charge control, with room and/or outdoor temperature feedback | N.A. |
| Nominal heat output where "yy" = 10 | $P_{nom}$ | 1.00 | kW | fan assisted heat output | N.A. |
| Nominal heat output where "yy" = 13 | $P_{nom}$ | 1.25 | kW | **Type of heat output/room temperature control** | |
| Minimum heat output (indicative) | $P_{nom}$ | N.A. | kW | single stage heat output and no room temperature control | no |
| Maximum continuous heat output where "yy" = 03 | $P_{max,c}$ | 0.25 | kW | two or more manual stages, no room temperature control | no |
| Maximum continuous heat output where "yy" = 05 | $P_{max,c}$ | 0.50 | kW | with mechanic thermostat room temperature control | no |
| Maximum continuous heat output where "yy" = 08 | $P_{max,c}$ | 0.75 | kW | with electronic room temperature control | no |
| Maximum continuous heat output where "yy" = 10 | $P_{max,c}$ | 1.00 | kW | electronic room temperature control plus day timer | no |
| Maximum continuous heat output where "yy" = 13 | $P_{max,c}$ | 1.25 | kW | electronic room temperature control plus week timer | yes |
| | | | | **Other control options** | |
| **Auxiliary electricity consumption** | | | | room temperature control, with presence detection | no |
| | | | | room temperature control, with open window detection | yes |
| At nominal heat output | $el_{max}$ | 0.00 | kW | with distance control option | no |
| At minimum heat output | $el_{min}$ | N.A. | kW | with adaptive start control | yes |
| In standby mode | $el_{SB}$ | N.A. | kW | with working time limitation | no |
| | | | | with black bulb sensor | no |

| Contact details | Purmo Group (UK) Ltd, Eastern Avenue, Team Valley, Gateshead, Tyne and Wear. NE11 0PG  UK |
|------|------|

**PURMO**