AURATON
MANUALS

AURATON Libra SET

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User manual ver. 202000830
The document contains information on the safety, installation and use of the Auraton Libra SET device.

Weekly, wireless temperature controller with AURATON Fornax heating or air conditioning controller (set)

AURATON Libra SET is a set of a weekly, wireless temperature regulator with a controller of the AURATON Fornax heating or air-conditioning device, designed to work with a gas or electric heating or air-conditioning device.

3 independently adjustable temperatures
Day, night, anti-freeze.

9 independent temperature programs,
including 6 user-modifiable.

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LCD

Backlit LCD display The
backlit display enables the device operation supervision even in poorly lit rooms.

The description of AURATON Libra R

weekly, wireless temperature controller (transmitter)

On the front part of the AURATON Libra R casing there is a backlit LCD display, four function buttons and a temperature setting knob with an **OK** button .

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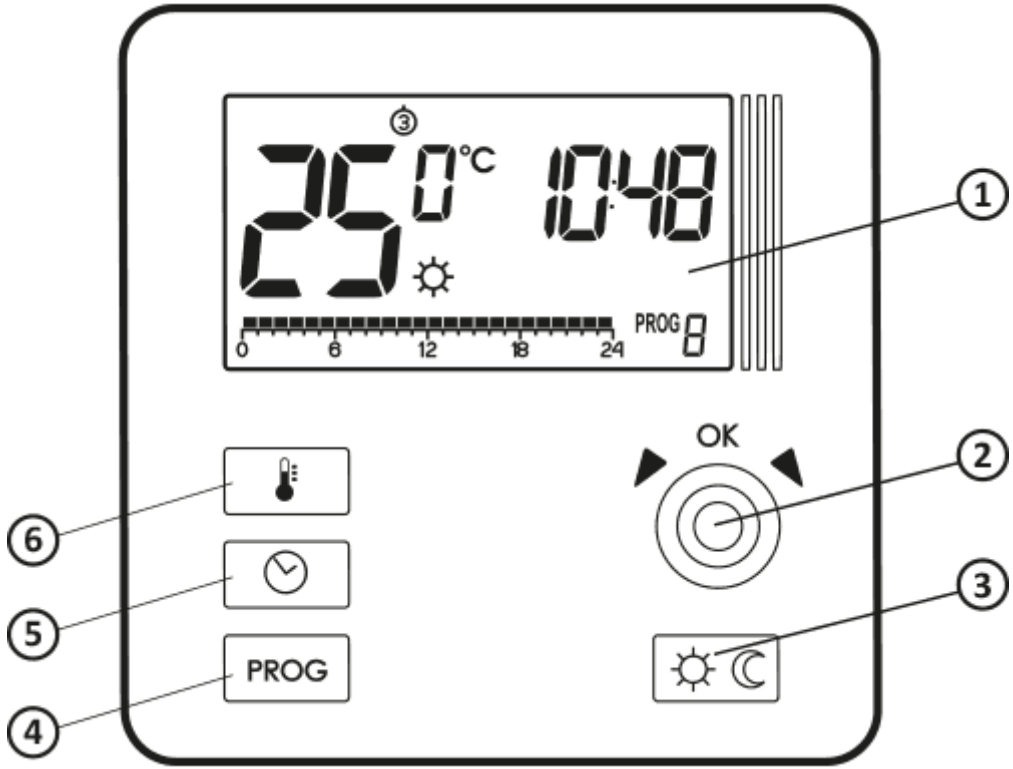

1 – LCD display

2 – Setting knob with integrated **"OK"** button

3 – Mode selection button: ☼ - day mode, ☾ - night mode

4 – Program selection button

5 – Time, day and week setting button

6 – Temperature setting button

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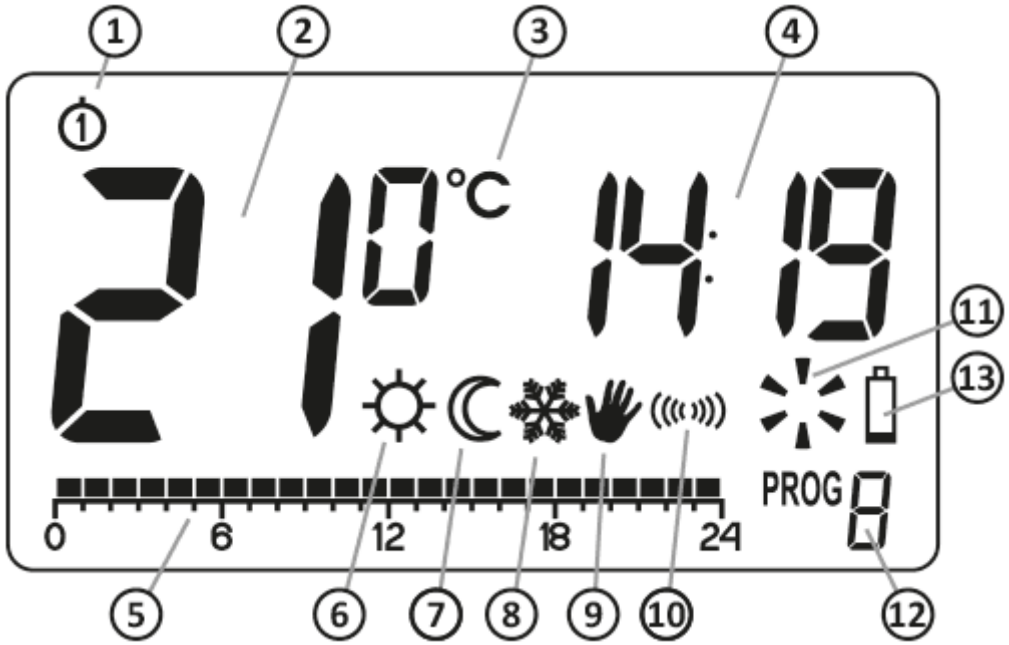
Display



1 – **Day of the week** (①–⑦) - Indicates the day of the week. Each day is assigned a number.

2 – **Temperature** - In normal operation mode, AURATON Libra R displays the temperature of the room in which it is installed.

3 – **Temperature unit** - Informs that the temperature is displayed in degrees Celsius (° C).

4 – **Clock**
The time is displayed in the 24-hour system.

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5 – **Timeline**
Program progress indicator. The line is divided into 24 sections, each of which corresponds to one hour. It shows the way of implementing a given program. *(see chapter: "Timeline")*

6 – **Day mode indicator (☼)**
Indicates that the AURATON Libra R is operating in day mode. *(see chapter: "Temperature programming")*

7 – **Night mode indicator (☾)**
Indicates that the AURATON Libra R is in night mode. *(see chapter: "Temperature programming")*

8 – **Anti-freeze mode indicator (❄)**
It indicates operation of the AURATON Libra R in anti-freeze mode. *(see chapter: "Antifreeze mode")*

9 – **Manual override indicator (✋)**
Appears when programmed operation is canceled. *(see chapter: "Manual control mode")*

10 – **Transmission symbol (((•)))**
Indicates communication with the receiver.

11 – **AURATON Libra R (✳) activation indicator**
A segment informing about the device's operating status. Visible when the controlled device is turned on.

12 – **Program**
number Indicates the number of the currently running program. *(see chapters: "Factory programs" and "Weekly programming")*

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13 – **Battery exhausted ( )**

The indicator is visible when the minimum permissible battery voltage is exceeded. Replace the batteries as soon as possible.

NOTE:

To maintain the programmed parameters, the time of the battery replacement operation should not exceed 30 seconds.

Choosing the right location for AURATON Libra R.

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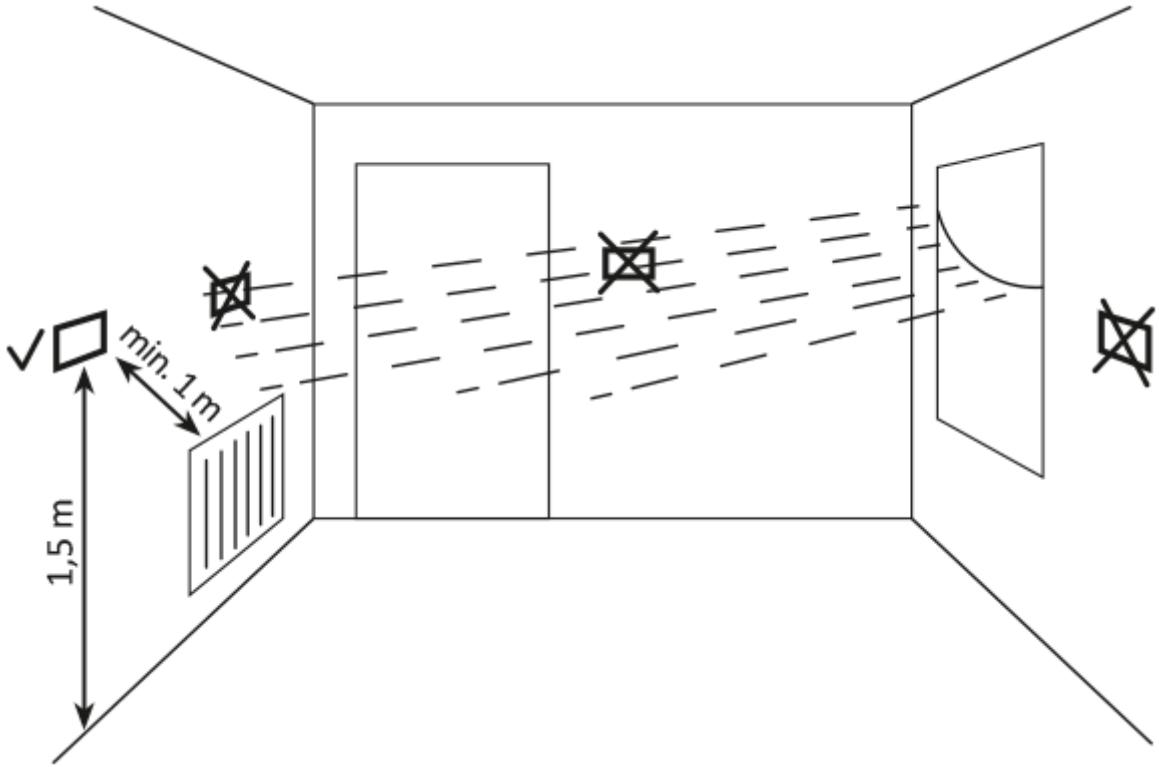

The correct operation of AURATON Libra R is largely influenced by its location. Location in a place with no air circulation or direct sunlight may result in incorrect temperature control. AURATON Libra R should be installed on the internal wall of the building (partition wall), in an environment with free air circulation. Avoid proximity to heat emitting devices (TV, heater, refrigerator) or locations exposed to direct sunlight. Problems in proper operation may be caused by the vicinity of the door, exposing AURATON Libra R to possible vibrations.

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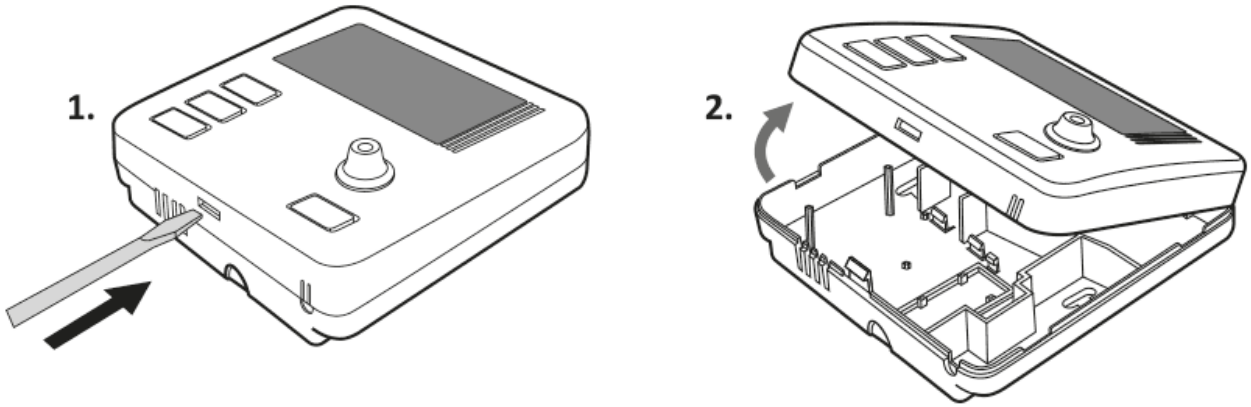
Battery change

The battery socket is located inside the AURATON Libra R on the front of the housing. To install the batteries, remove the AURATON Libra R cover as shown in the figure below:



NOTE:
We recommend alkaline batteries to power AURATON regulators. Do not use "rechargeable batteries" because the rated voltage is too low.

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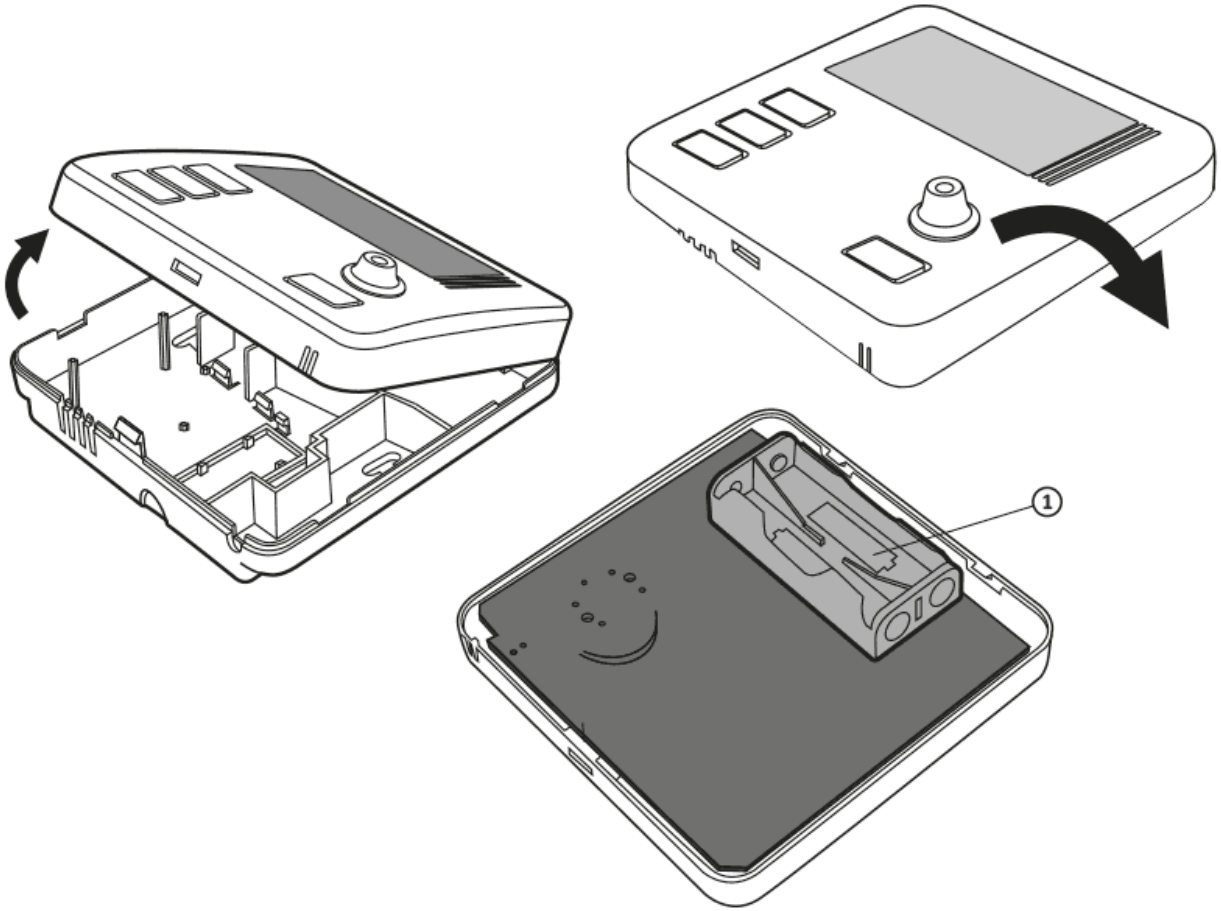

1 – 1.5V AAA battery socket

Insert two 1.5V AAA batteries into the battery socket, paying attention to the correct polarity of the batteries.

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NOTE:
After replacing the battery and assembling the housing, we recommend pressing the OK button twice to stabilize the relay operation.

Mount AURATON Libra R - weekly, wireless temperature controller

To fix AURATON Libra R to the wall:

1. Remove the cover *(as shown in the "Battery Replacement" section)*
2. Drill two holes 6 mm in diameter in the wall *(mark the spacing between the holes using the rear part of the AURATON Libra R housing).*
3. Put the wall plugs in the drilled holes.
4. Screw the rear part of the AURATON Libra R housing to the wall using the screws included in the kit.
5. Put the cover on.

NOTE:
In the case of a wooden wall, there is no need to use expansion bolts. It is enough to drill holes with a diameter of 2.7 mm (instead of 6 mm) and screw the screws directly into the wood.

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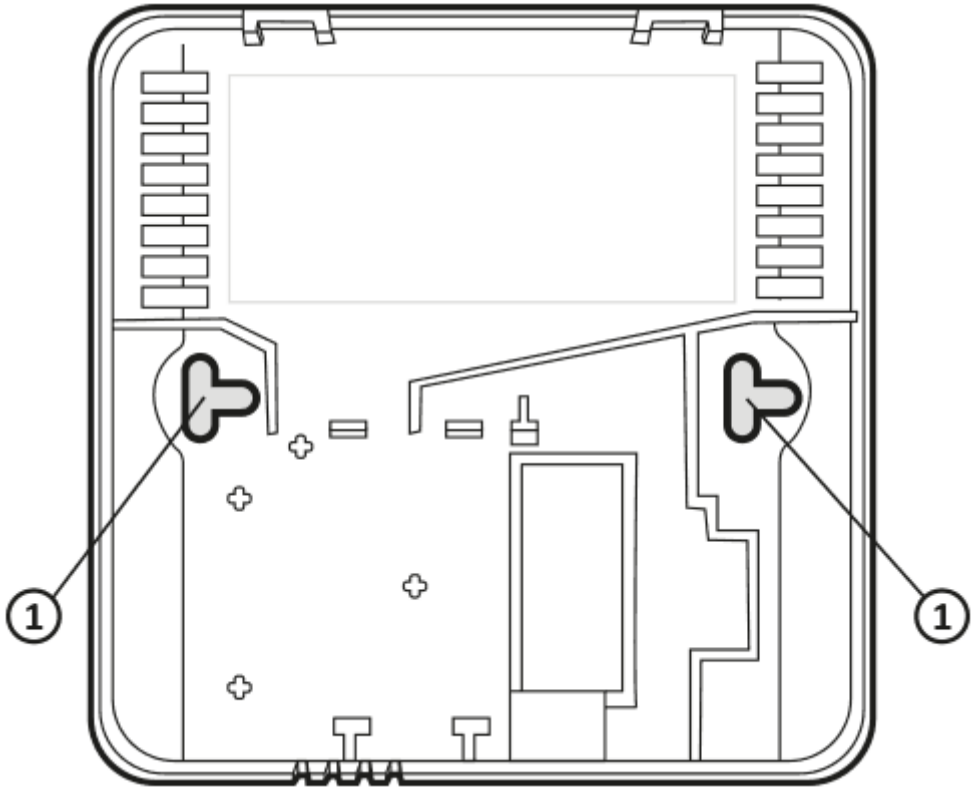

1 – fixing screw hole

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After the batteries are correctly inserted into the slots, the LCD will display for a second all the segments

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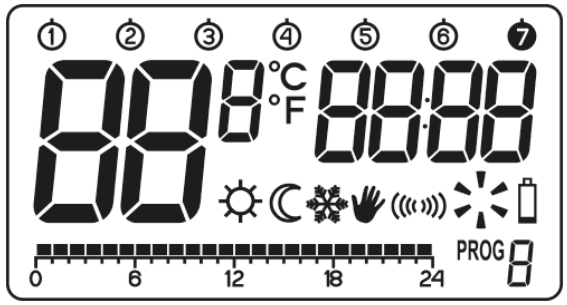
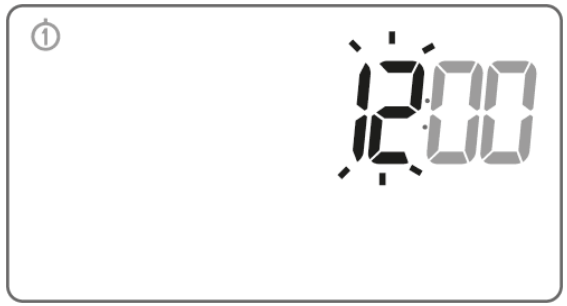
followed by the software version number.



After a while, AURATON Libra R will automatically go back to the hour setting. A flashing item on the screen means that it is currently in edit mode. Turn the knob to the left or right to set the required hour and confirm by pressing OK .



Turn the knob to the left or right to set the correct value on the minute segment and confirm again by pressing the button OK .

A flashing day of the week symbol appears in the upper left corner. Turn the knob to the left or right to set the

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required day and confirm the selection by pressing the button OK .

NOTE:
If no button is pressed for 60 seconds in the Initial Edit mode, it will automatically default to 12:00 and Monday as the day of the week.

NOTE:
When programming any other functions, if you do not press any button for 10 seconds, you will use the OK button .

Setting the clock and day of the week

To set the clock:

1. Press the button . The hour segment starts flashing on the display.

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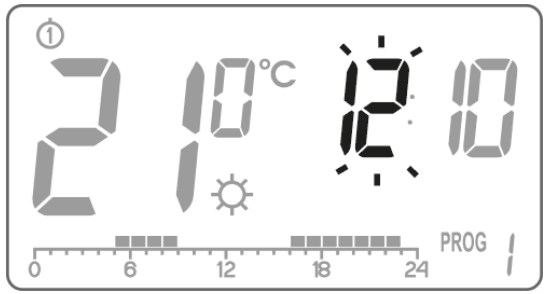
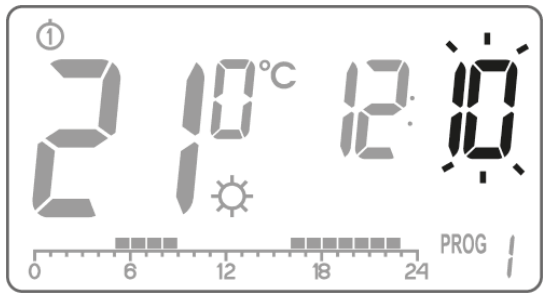
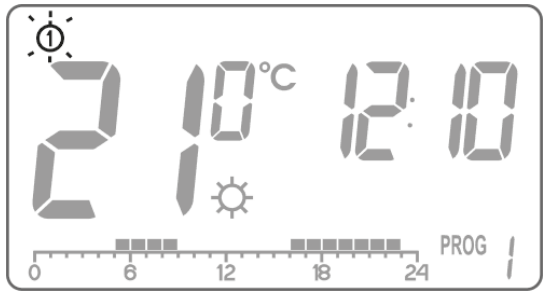


2. Turn the knob to the left or right to set the required hour and confirm by pressing OK .

3. Turn the knob to the left or right to set the correct value on the minute segment and confirm again by pressing the button OK .



4. A flashing day of the week symbol appears in the upper left corner. Turn the knob to the left or right to set the required day and confirm the selection by pressing the button OK .



NOTE:
You can also switch by pressing the button .

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Default setting of programs

- **Monday - Friday:**
  the heating device maintains the day temperature (☼) from **05:00 to 8:00** and from **15:00 to 23:00**
- **Saturday - Sunday:**
  the heating device maintains the day temperature (☼) from **06:00 to 23:00**
- **default temperature settings:**
  ☼ day temperature - 21.0 ° C
  ☾ night temperature - 19.0 ° C
  ❄ anti-freeze temperature - 7.0 ° C

Programming day and night temperatures

AURATON Libra R allows you to program 2 types of temperature:

- Day temperature (☼) - 5 to 30 ° C
- Night temperature (☾) - from 5 to 30 ° C

To set one of the above temperatures:

1. Press the button .
2. The display will show the currently set temperature with the symbol:

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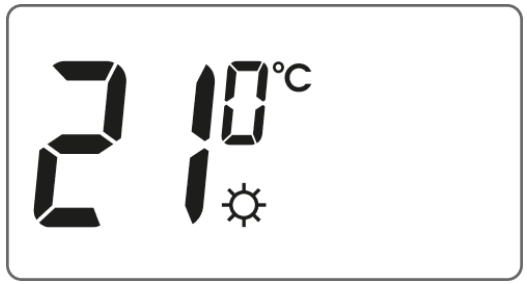
☼ **- day temperature;**
☾ **- night temperature.**



3. Turn the knob to the left or right to set the desired temperature value.
4. Pressing the button will toggle the editing mode between the day and night temperature (☼ , ☾).
5. After setting the temperatures, confirm with the (OK) button .

NOTE:
The night temperature setting may be equal to or lower than the day temperature. It is impossible to set the night temperature higher than the day temperature.

Introduction to programming

Time line

The time line on the LCD is divided into 24 sections. Each of them symbolizes 1 hour of the day.
Black rectangles above the time line mean that the day temperature has been

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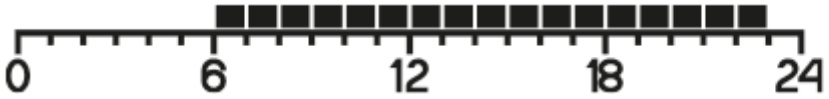
programmed in the given hours, no, that the night temperature has been programmed.

Example:



The figure above shows that from 6.00 a.m. to 11.00 p.m. AURATON Libra R will control the heating device in such a way that the day temperature (☼) prevails in the room . From 23.00 to 6.00, AURATON Libra R will switch to night temperature (☾).

Factory programs

In order for AURATON Libra R to know when to turn on the day and night temperature, it should be set to an appropriate program for each day of the week. For this purpose, we can use one of the three factory-set programs (from 0 to 2):

Program no. 0 - anti-freeze ❄
Unmodifiable factory program. Designed for all-day anti-freezing temperature setting.

Program no. 1 - weekly
Non-modifiable factory program. It sets the day temperature from 5:00 a.m. to 8:00 a.m. and from 3:00 p.m. to 11:00 p.m.

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Program no. 2 - weekend The
unmodifiable factory program. Day temperature setting from 6:00 am to 11:00 pm.

Program no. 3, 4,…., 8 - user
Programs no. 3 to no. 8 are user programs. They can be freely changed and adapted to your requirements.

programming

Weekly programming

The programming of AURATON Libra R consists in defining the hours at which the day temperature is to be realized for a given day of the week. The night temperature then applies during the rest of the time.

An exemplary mode Auraton Libra R a d Monday to Sunday. Apart from the time periods specified below, AURATON Libra R will have a lower night temperature.

Day	Daytime temperature	
Monday	5:00 - 8:00; 15:00 - 23:00	

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Tuesday	5:00 - 8:00; 15:00 - 23:00	
Wednesday	5:00 - 8:00; 15:00 - 23:00	
Thursday	5:00 - 8:00; 15:00 - 23:00	
Friday	5:00 - 8:00; 15:00 - 23:00	
Saturday	8:00 am - 11:00 pm	
Sunday	8:00 am - 11:00 pm	

Program selection

To set the program:

1. Press the PROG button . The program number segment will start flashing.

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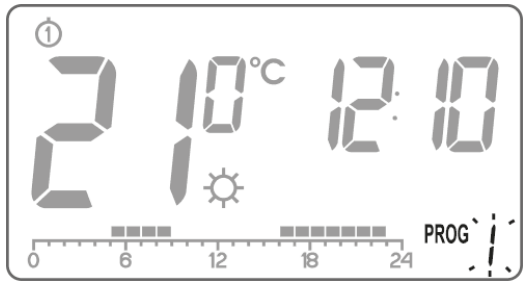
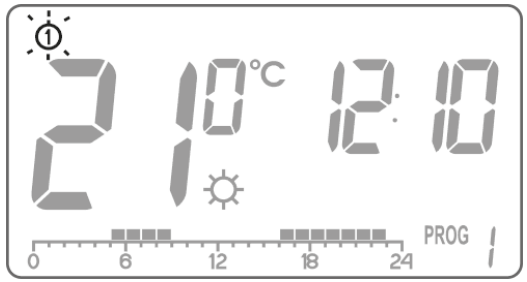
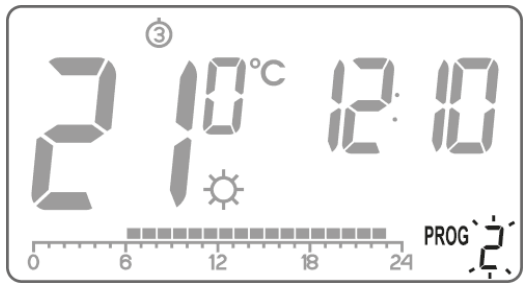


2. Press the button repeatedly to select the day of the week on which the program is to be run.



3. Press the PROG button several times and select the desired program number. Programs **0-2** are factory, programs **3-8 are** modifiable.



4. Confirm your selection by pressing OK .
5. Repeat the procedure for the other days of the week.

Modifying the user program

To set the program:

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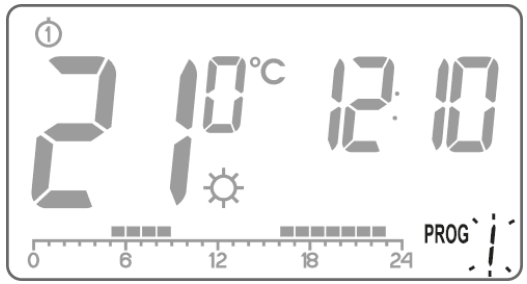
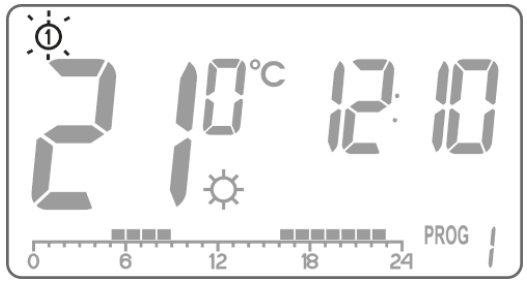
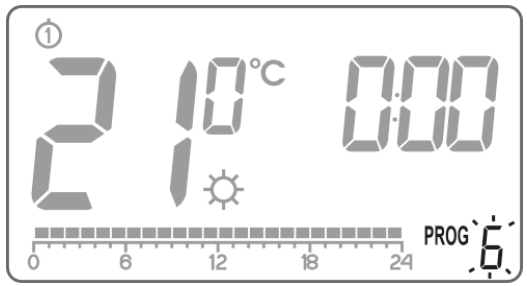
1. Press the PROG button . The program number segment will start flashing.



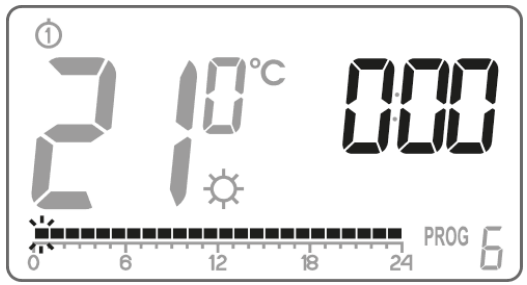
2. Press the button repeatedly to select the day of the week on which the program is to be carried out.



3. Press the PROG button several times and select the desired program number. Programs **0-2** are factory, programs **3-8 are** modifiable.



4. All (24) black rectangles will be lit on the timeline, each representing 1 hour. The visible rectangle means that the day temperature is to be



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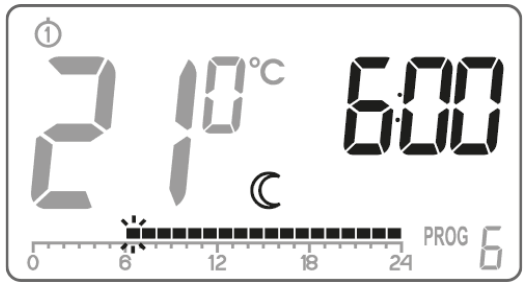
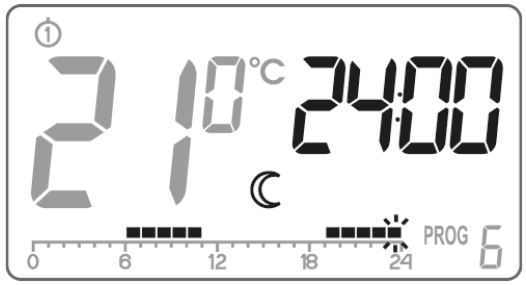
maintained in the given time. If there is no rectangle above the timeline, the night temperature is planned.

The flashing rectangle indicates where you are making changes in the timeline.

5. Press button ☼☾ to select the day temperature (rectangle on) or night temperature (rectangle off). Then select the time period for the desired temperature with the handwheel.



6. By pressing the ☼☾ button and selecting the time interval, we modify the entire program.



7. The whole thing is confirmed with the button OK

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NOTE: The
modified program for a specific day can be selected and implemented also on another day of the week.

Manual control

Option 1:
If for any reason you want to interrupt the current program and extend the day or night temperature, you can do it manually, but not longer than 24 hours. To do this, you need to:

Hold down the ☼☾ button for 3 seconds. Then, using the dial, select the number of hours of manual operation (maximum 24 hours) and confirm the setting with the button OK .

AURATON Libra R will wait for setting which of the two temperatures it should maintain (day or night). Changes are made with the ☼☾ button or with the dial. Confirm your selection by pressing OK .

Option 2:
In the event that we would like to suspend the execution of the program, e.g. due to a prolonged party, and AURATON Libra R has already started lowering the

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temperature to night temperature at night (the ☾ symbol appeared on the display), and we would like to keep the comfortable temperature until the end of the party, :
Press the button the display shows the symbol ✋ and ☼ . The day temperature will then be maintained until the next temperature change realized by the program.
To withdraw the above-mentioned press the button OK then the symbol will disappear from the display.

Similarly, if the program implements the day temperature, and e.g. you want to enter the night temperature immediately, then you should:
Press the button , the display will show the ✋ and ☾ symbols . The night temperature will then be maintained until the next temperature change realized by the program. To withdraw the above-mentioned press the button OK then the symbol will disappear from the display).

Anti-freeze temperature

In the event of a longer absence, it is possible to turn on the anti-freeze temperature mode. It allows you to avoid the unpleasant consequences of freezing the water in the heating system by automatically setting the temperature to 7 ° C. To set the anti-freeze program, simply select **program 0** on the day of the week you want.

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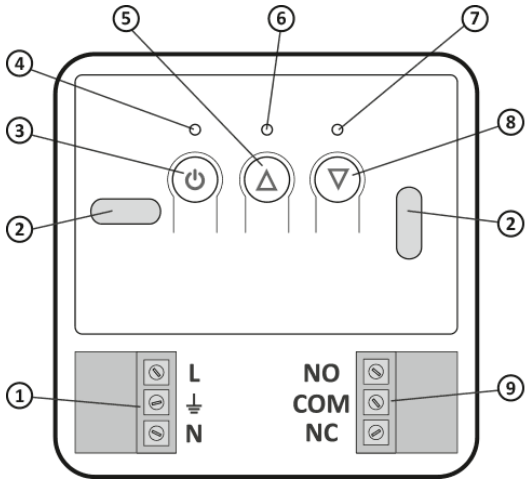
Description of AURATON Fornax

wireless controller of the heating or air conditioning device (receiver)

AURATON Fornax (receiver) cooperates with the wireless AURATON Libra R regulator (transmitter). The receiver is mounted on the heating or air conditioning device and can operate under a load of up to **16A / 10A** .



1 – Detachable 230 V AC power connector terminals

2 – Mounting hole

3 – Power button

4 – Power LED

5 – Unsubscribe button for paired devices

6 – Diode signaling activation of the actuating device

7 – Diode signaling switching off the actuating device

8 – Device pairing button for AURATON Fornax

9 – Detachable terminals (COM – NC, COM – NO dry contacts)

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Legend - description of the LED signaling

The LED is green - the actuating device is turned off (COM and NC contacts closed).

The LED lights up in red - the actuating device is on (COM and NO contacts closed).

The diode flashes green - the AURATON Fornax receiver is waiting for the pairing of the device - *chapter: "Pairing the AURATON Libra R wireless regulator (transmitter) with AURATON Fornax - the wireless controller of the heating or air conditioning device (receiver)".*

The diode is blinking red - the AURATON Fornax receiver is waiting for the previously paired device to be written off - *chapter: "Registering the regulator with AURATON Fornax - wireless controller of the heating or air conditioning device (receiver)".*

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The LED flashes alternately red and green:
ALARM - the AURATON Fornax receiver has lost connection with the paired device - *chapter: "Special situations"*
RESET - the AURATON Fornax receiver.
Removal of all devices paired with AURATON Fornax - wireless controller of a heating or air conditioning device (receiver) "

Green power diode - the AURATON Fornax receiver is on.

Installation method AURATON Fornax - wireless controller of a heating or air-conditioning device (receiver)

ATTENTION!
The cables supplied with the AURATON Libra SET are designed to withstand a maximum load of 2.5A.
In the case of connecting devices with higher power, they must be replaced with wires of the appropriate cross-section.
Do not use twisted pair cables or telecommunication cables.

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NOTE:
while installing the AURATON Fornax receiver, the power supply should be turned off. It is recommended to entrust the installation of AURATON Fornax to a specialist.

NOTE:
In the fixed installation of the building there must be a switch and overcurrent protection.

NOTE:
To facilitate assembly, the connections are provided with removable terminals. Before making cable connections, they can be disconnected from AURATON Fornax. Cables can be routed from the bottom of AURATON Fornax after breaking holes in the mounting cap or on the back of AURATON Fornax if the cables are led out of the wall. To connect from the rear, break off the cap.

1 – mounting plug

Remove the cover of the front part of AURATON Fornax by unscrewing the screws half their length.

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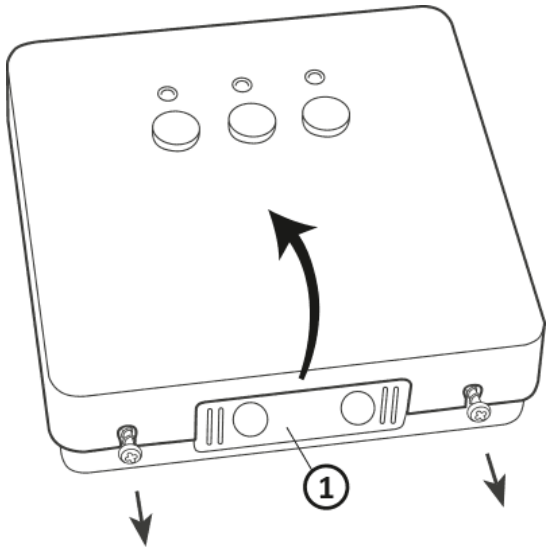

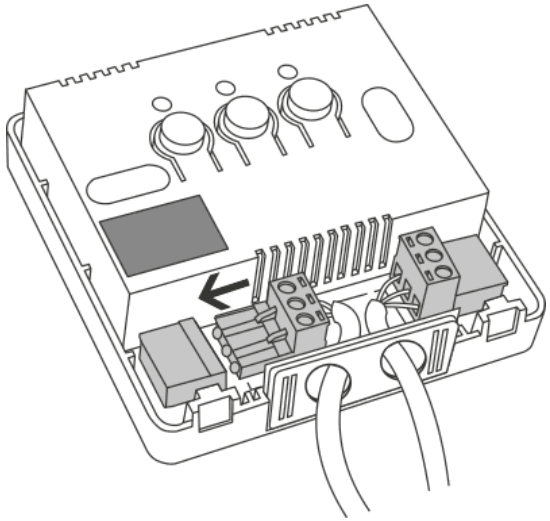

Connect the heating device to the terminals of the control connector of the AURATON Fornax receiver. Follow the service instructions for the heating device. The most commonly used terminals are COM (Common) and NO (Normally Open).

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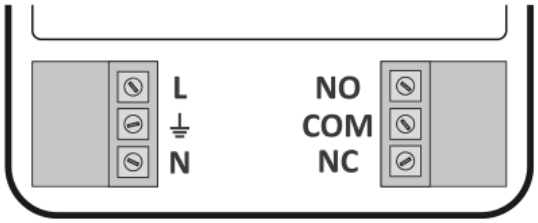
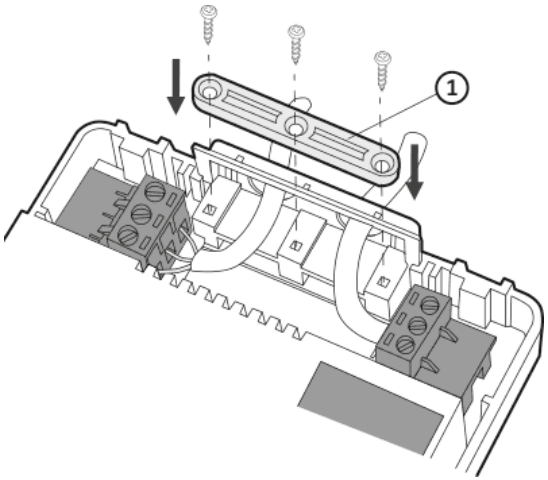


Connect the power cables to the terminals of the power connector of the AURATON Fornax receiver, observing the safety rules.



1 – Cable holder.

After connecting the cables, they should be immobilized with the "cable clamp" and the cover should be screwed back to the AURATON Fornax receiver.

Mounting AURATON Fornax - wireless controller of a heating or air conditioning device (receiver) to the wall

To attach the AURATON Fornax receiver to the wall:

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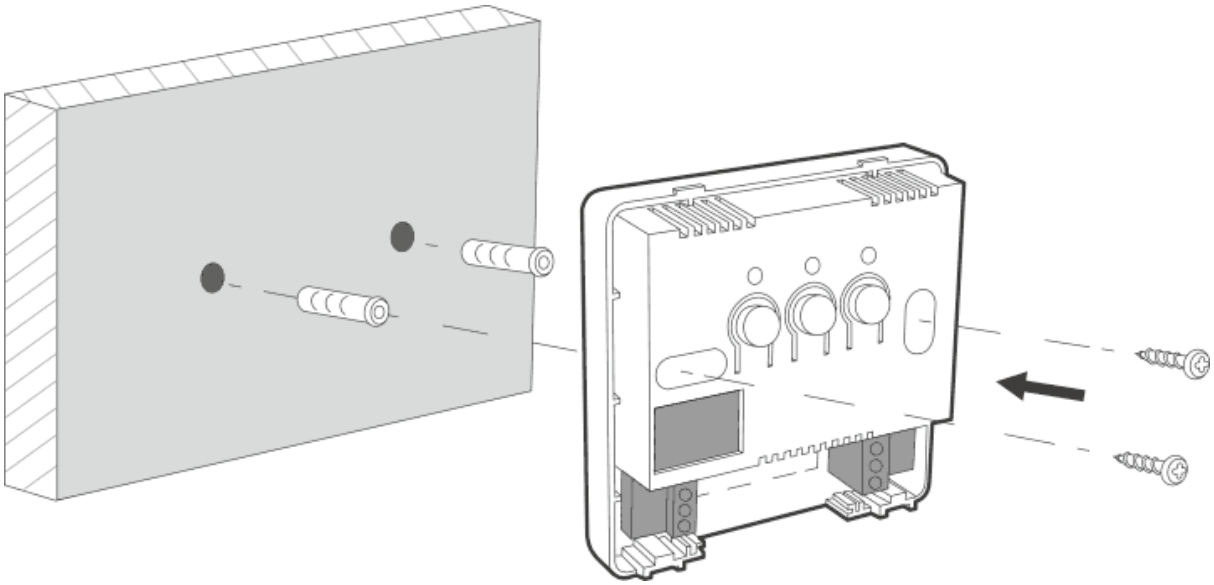
1. Remove the cover of the front part of the receiver, *see chapter "Installation of the AURATON Fornax receiver - heating device controller (receiver)"* .
2. Mark the location of the fixing screw holes on the wall.
3. In the marked places, drill holes with the diameter of the plugs included in the kit (5 mm).
4. Insert the wall plugs into the drilled holes.
5. Screw the AURATON Fornax receiver to the wall with screws so that they hold the device well.



NOTE:
If the wall is wooden, there is no need to use wall plugs. Drill holes with a diameter of 2.7 mm instead of 5 mm and screw the screws directly into the wood.

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NOTE:
Do not place the AURATON Fornax receiver in metal housings (e.g. mounting box, metal furnace housing), so as not to interfere with the operation of AURATON Libra R.

Pairing AURATON Libra R of a weekly, wireless temperature controller (transmitter) with AURATON Fornax - a wireless controller for a heating or air-conditioning device (receiver)

After connecting to the mains, turn on the receiver by briefly pressing the power button (⏻). If the device is turned on, the green power LED will turn on and you will hear a single beep. In order to turn off AURATON Fornax, e.g. outside the heating season, press and hold the power button for 3 seconds until you hear a double beep and the green power LED goes out, thus turning off the heating device.

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NOTE: The
AURATON Libra R wireless regulator (transmitter) sold together with AURATON Fornax - a wireless controller for a heating or air-conditioning device (receiver) in the AURATON Libra SET set is already paired. Separately purchased devices require "pairing".

1. Pairing AURATON Libra R (transmitter) with AURATON Fornax is initiated by pressing the right pairing button (▽) - a single beep on the AURATON Fornax receiver for at least 3 seconds, until the LED starts blinking green (double beep), then we release the button.
   The AURATON Fornax receiver waits for pairing for 120 seconds. After this time, it automatically returns to normal operation.
2. On the AURATON Libra R (transmitter) press the PROG button for 5 seconds until the transmission symbol (((•))) lights up on the display. Release the button - AURATON Libra R transmits the pairing signal for 5 seconds.
3. Successful completion of pairing is signaled by the stopping of the green LED diode on the AURATON Fornax receiver and a single sound signal and the receiver switching to normal operation.

In the event of an error during pairing, steps 1 and 2 should be repeated. For subsequent errors, write the device off by RESET the AURATON Fornax receiver, *see "RESET - Unwriting the device from AURATON Fornax - wireless controller of the heating or air conditioning device (receiver)"* and try to pair the devices again.

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The first launch of AURATON Libra R.

NOTE:
The Auraton Fornax receiver can be paired with only one AURATON Libra R.

Signaling the work and receipt of the data package

Each reception of the radio transmission from the paired device is signaled by the AURATON Fornax receiver by a temporary alternating change of the color of the LED diodes. After switching the relay on, the LED diode is red, after switching the relay off, the LED diode is green.

NOTE:
Pressing any button is signaled by a short beep.

Write-off of AURATON Libra - weekly, wireless temperature regulator from AURATON Fornax

1. The AURATON Libra R (transmitter) write-off from the AURATON Fornax receiver is initiated by pressing the left button (⚠) on the receiver and holding it for at least 3 seconds, until the LED starts flashing red, then release the button. The acoustic signaling works in the same way as enrollment, i.e. pressing the button is signaled by a short beep and after 3 seconds there is a double short beep.

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The AURATON Fornax receiver waits for the device to write back for 120 seconds. After this time, it automatically returns to normal operation.

2. On the AURATON Libra R (transmitter) press the PROG button for 5 seconds until the transmission symbol (((•))) lights up on the display. Release the button.
3. Correct completion of the write-off is signaled by the stop of the red blinking LED diode on the AURATON Fornax receiver and a single sound signal and the receiver switching to normal operation.

In the event of an error during the write-off, steps 1 and 2 should be repeated. For subsequent errors, the paired device should be written off, *see "RESET - Write-off of the device paired to the AURATON Fornax heating device controller (receiver)"* .

RESET - Write-off of the device paired with AURATON Fornax - wireless controller of the heating or air-conditioning device (receiver)

In order to unsubscribe a paired device (eg AURATON Libra R) from AURATON Fornax, press and hold both pairing and unsubscribe buttons (▽ and △) simultaneously for at least 5s. until the LED indication changes to alternating green - red blinking. Then release both buttons. Sound signaling: pressing the button - a short beep - after 5 seconds a double short beep.
Correct completion of writing off the device is signaled after about 2 seconds. the signaling changes to green, and then it is switched off for a short time.

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NOTE:
If, after a RESET, we disconnect the AURATON Fornax receiver from the power supply and then reconnect the power, the receiver will automatically enter the "pairing" mode for 120 seconds. The AURATON Fornax receiver, which is newly purchased (not included with the AURATON Libra R) without factory-paired devices, will behave in the same way.

RESET AURATON Libra R

The reset is performed by removing the battery until the data disappears from the display.

MASTER RESET AURATON Libra R

MASTER RESET is performed by pressing and holding the button OK and at the same time mounting the battery. This causes AURATON Libra R to return to the factory settings.

NOTE:
All user programs are removed!

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Configuration settings

Configuration settings are made one after another:

heating mode / air conditioning mode → **hysteresis change** →

offset change → **clock work calibration**

To enter the configuration settings change mode, hold down the PROG and buttons simultaneously OK for 3 seconds until the settings menu is displayed.

Heating mode / air conditioning mode

AURATON Libra R can work in two modes:

Heating mode (factory set) - set it when AURATON Libra R is to cooperate with heating devices.

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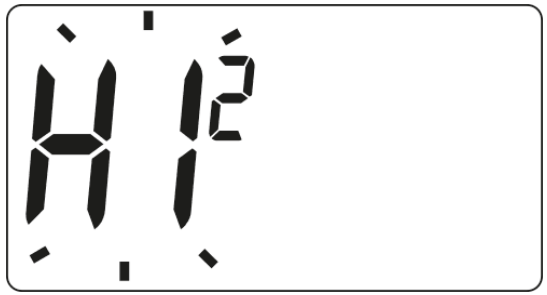
Air conditioning mode - set it when AURATON Libra R is to cooperate with air conditioning devices.

Turn the knob to the left or right to set the desired mode. Confirm the selection by pressing the button (OK) . AURATON Libra R will proceed to change the next parameter.

Hysteresis change

The hysteresis is to prevent too frequent switching on of the actuator due to small temperature fluctuations. *For example, for the **HI 2** hysteresis, when the temperature is set to 20 ° C, the boiler will be switched on at 19.8 ° C, and switched off at 20.2 ° C. For the **HI 4** hysteresis, when the temperature is set to 20 ° C, the boiler will be switched on at 19.6 ° C, and switched off at 20.4 ° C.*



The hysteresis change mode is signaled by the flashing text **HI** . Turn the knob to the left or right to set the required hysteresis.

HI 2 - ± 0.2 ° C (factory set),

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HI 4 - ± 0.4 ° C,
HI P - PWM operating mode (chapter "PWM operating mode").

Confirm the selection by pressing the button OK . AURATON Libra R will proceed to change the next parameter.

Offset change

Offset allows for calibrating temperature indications with a tolerance of ± 3 ° C. For example, AURATON Libra R indicates that the room is 23 ° C, and a normal room thermometer next to it shows 24 ° C. By changing the offset by +1 degree, we will make the AURATON Libra R show the same temperatures as the room thermometer.

The offset change mode is signaled by the flashing word OFFS. Turn the knob to the left or right to set the desired value in the range from -3.0 to 3.0 (factory setting - 0.0). Confirm the selection by pressing the button OK . AURATON Libra R returns to the normal operating mode.

NOTE:
If no button is pressed for 10 seconds while changing the configuration settings, AURATON Libra R will return to the normal operating mode.

NOTE:
The first pressing of any function button always turns on the backlight, and

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only the next call of the button function.

Clock work calibration

This function is used to correct the clock indications in case of its deviations. In the event that the clock is working incorrectly within a week, it should be specified if the clock indications are incorrect. This value should be entered in the AURATON Libra R in the form of seconds.

Example 1:
After a week of work, AURATON Libra R indicates the time accelerated by 1 minute and 20 seconds (60 + 20 = 80). In this case, slow down the clock by setting C -80.

Example 2:
After a week of work, AURATON Libra R indicates the time slackened by 2 minutes (2 x 60 = 120). In this case, you should speed up the clock by setting C 120.

NOTE:
For the clock calibration function to work properly, the number of seconds should be determined after the AURATON Libra R working week (7 days = number of seconds to be added or subtracted, maximum 294 seconds).

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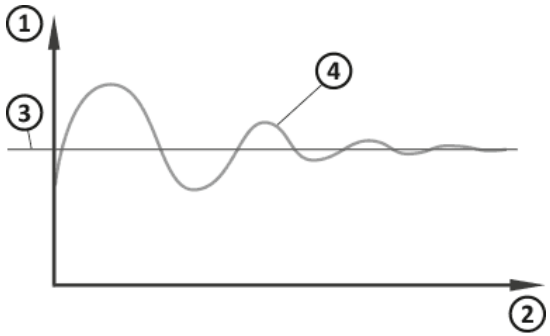
NOTE:
If no button is pressed for 10 seconds while changing the configuration settings, AURATON Libra R will return to the normal operating mode.

PWM operating mode (Pulse-Width Modulation)

By changing the hysteresis settings (chapter "Configuration settings), we can turn on the PWM operating mode. In this mode, AURATON Libra R cyclically turns on the heating device in order to minimize temperature fluctuations. AURATON Libra R checks the temperature rise times and the temperature drop times.

Knowing these values, AURATON Libra R turns on and off the heating device in such cycles to keep the temperature as close as possible to the set value.



1 – Temperature
2 – Time
3 – Set temperature
4 – Room temperature

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NOTE:
In the PWM mode, AURATON Libra R can turn on the heating device despite the fact that the temperature in the room is higher than the set temperature. This is due to the PWM algorithm that aims to maintain the set temperature and anticipate the behavior of the thermal system.

Special situations

- When we lose 3 consecutive transmissions (after 15 minutes) from the AURATON Libra R (transmitter), a failure will be signaled on the AURATON Fornax receiver (the LED will blink continuously red and green). Until the problem is removed, the receiver will switch to the saved cycle of on / off from the last 24 hours.
- When the signal from AURATON Libra R returns, the error is deleted and the AURATON Fornax receiver goes to normal operation.

Unique features of AURATON Fornax

- Switching the relay is synchronized with the course of the 230 V supply network so that the short-circuit and opening of the relay's anchor contacts always takes

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place near the zero crossing of the mains voltage. This prevents the formation of an electric arc and significantly increases the life of the relay.

- The AURATON Fornax receiver is equipped with a unique algorithm for analyzing the on / off cycles. The entire heating cycle from the last 24 hours is saved in the receiver's memory. In case of loss of communication with AURATON Libra R (transmitter), the Fornax receiver will automatically execute the saved cycle of on / off from the last 24 hours. This gives time to restore the transmission (remove interferences) or repair the AURATON Libra R without significantly worsening the thermal comfort in the controlled facility.

Additional remarks

- AURATON Libra R (transmitter) must be installed at least 1 meter from the receiver (too strong a signal from the transmitter may cause interference).
- At least 30 seconds must elapse between switching the relay off and on.
- Data transmission from AURATON Libra R (transmitter) to the AURATON Fornax receiver takes place at each change of the ambient temperature by 0.2 ° C. If the temperature does not change, AURATON Libra R sends control data every 5 minutes (it is manifested by a temporary alternating color change of the LEDs).
- In the event of a power failure, the AURATON Fornax receiver will switch off. After the power is restored, the heating device will be automatically turned on and the AURATON Fornax receiver will wait for a signal from the paired AURATON Libra R (transmitter) no later than 5 minutes after the power is restored. After receiving the signal, the AURATON Fornax receiver will go into normal operation.

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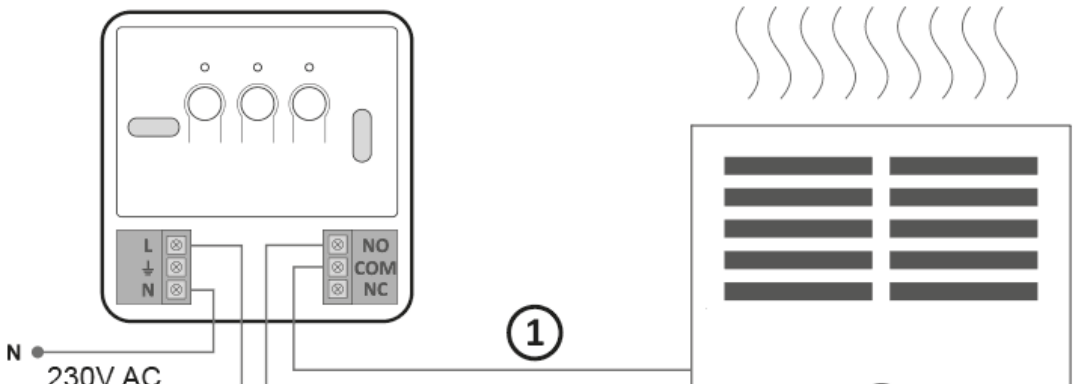
- Placing the AURATON Fornax receiver in a metal housing (e.g. an assembly box, a metal furnace housing) will interfere with the operation of AURATON Libra R.
- In AURATON Libra R (transmitter), you can turn on or off the control functions at any time (e.g. after the heating season) by briefly (about 5 seconds) holding down the button OK (AURATON Libra R will only show the current time and room temperature - no "time line" ").
- The first pressing of any function button always turns on the backlight, and only the next call of the button function. When using the knob, each step keeps the backlight working.
- When programming any function, not pressing any button for 10 seconds is tantamount to pressing the button OK .

Connection diagram of AURATON Fornax



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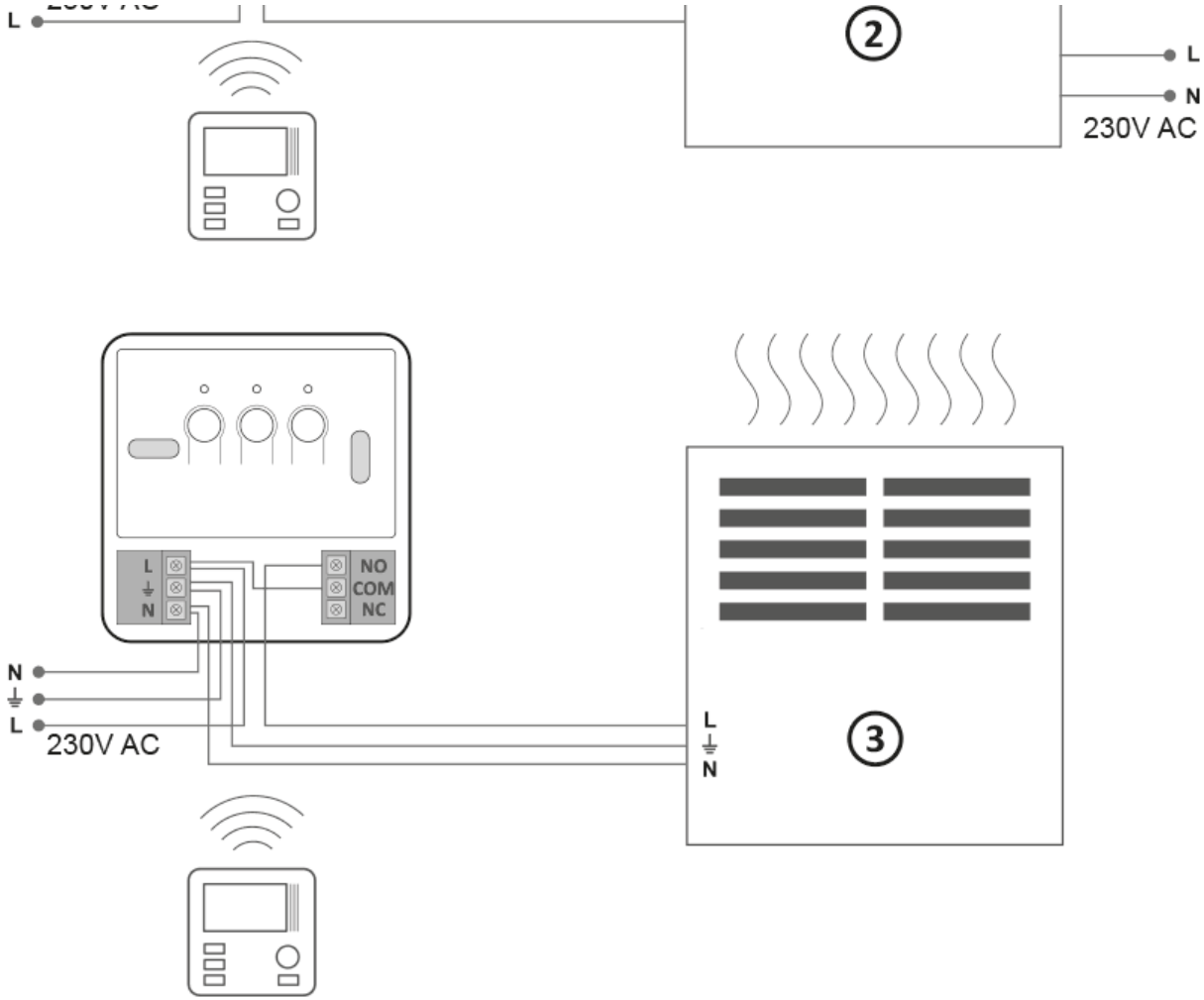


1 – Control

2 – Heating device, *e.g. gas stove*

3 – Electric heating or air conditioning device (MAX 230 V AC, 16 A)

Cleaning and maintenance

- The outside of the device should be cleaned with a dry cloth. Do not use solvents (such as benzene, thinner, or alcohol).
- Do not touch the device with wet hands. It may cause electric shock or serious damage to the device.
- Do not expose the device to excessive smoke or dust.
- Do not touch the screen with a sharp object.
- Avoid contact of the device with liquids or moisture.

Technical data

Working temperature range:	0-45 ° C
Operating range:	in a typical building with standard wall construction - approx. 30 m; in open area - up to 300 m
Radio frequency:	868.850 MHz 869.000 MHz

Radio signal strength:	Up to 11 dBm
Level of security:	IP20

AURATON Libra R:

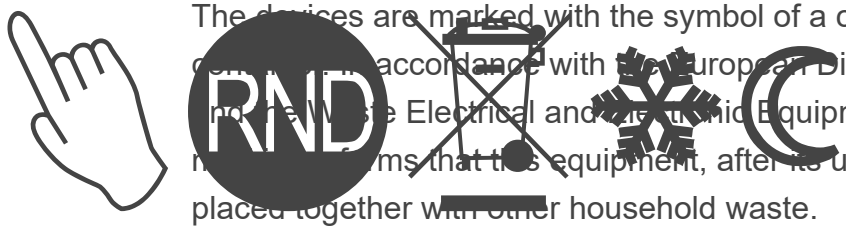
Power supply:	2 x AAA (2 x 1.5V), alkaline
Number of temperature levels:	2
Anti-freeze temperature:	7 ° C
Temperature control range:	5-30 ° C
Hysteresis:	± 0.2 ° C / ± 0.4 ° C / PWM
Operation status signaling:	LCD display
Dimensions [mm]:	90 x 90 x 36

AURATON Fornax:

Power supply:	230V AC, 50Hz, 1.5W
Operation status signaling:	LEDs, sound

Relay load capacity:	Max. 250 V AC, max. 16 A.
Receiver Category:	2
Suggested place of installation:	Near the boiler, the boiler pump
Dimensions [mm]:	100 x 100 x 29

Disposal of the device



The devices are marked with the symbol of a crossed-out waste container in accordance with the European Directive 2012/19 / EU on the Waste Electrical and Electronic Equipment Act, such means that this equipment, after its useful life, cannot be placed together with other household waste.

The user is obliged to return it to a waste electrical and electronic equipment collection point.

LARS Andrzej Szymański hereby declares that the type of AURATON Libra SET radio equipment is in compliance with Directive 2014/53 / EU and 2011/65 / EU. The full text of the EU declaration of conformity is available in the download area below.

Address and contact to the manufacturer:
LARS, ul. Świerkowa 14
64-320 Niepruszewo
www.auraton.pl

To download

- User manual
- Declaration of Conformity AURATON Libra R.
- AURATON Fornax declaration of conformity

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