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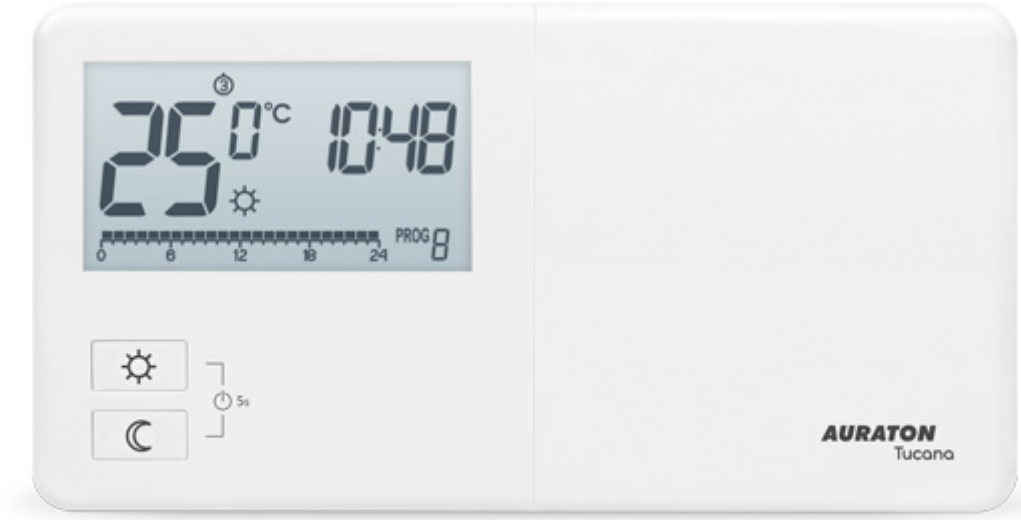

AURATON Tucana

PDF

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User manual ver. 20201122
The document contains information on the safety, installation and use of the AURATON Tucana device.

Weekly, wired temperature controller

AURATON Tucana is a weekly, wired temperature controller, designed to work with a gas or electric heating device.

4 independently adjustable temperatures
Day, night, anti-freeze, holiday.

9 independent temperature programs,
including 6 user-modifiable.

LCD

Backlit LCD display
Thanks to the backlit display, we can supervise the operation of the device even in a dimly lit room (3 backlight colors to choose from).

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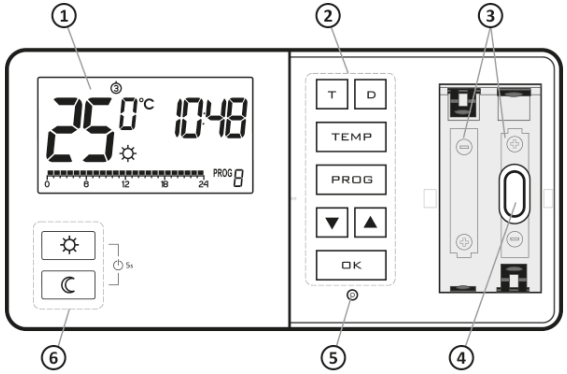
Description of AURATON Tucana

weekly, wired temperature controller

On the front of the AURATON Tucana case, on the right side, you will find a sliding cover. After opening it, the buttons are visible. The cover can be removed for battery replacement.



1. LCD display
2. Programming buttons
3. Place for 2 batteries (AA LR6 1.5V)
4. Mounting hole
5. RESET button
6. Mode selection buttons:
   ☼ - day mode
   ☾ - night mode

Display

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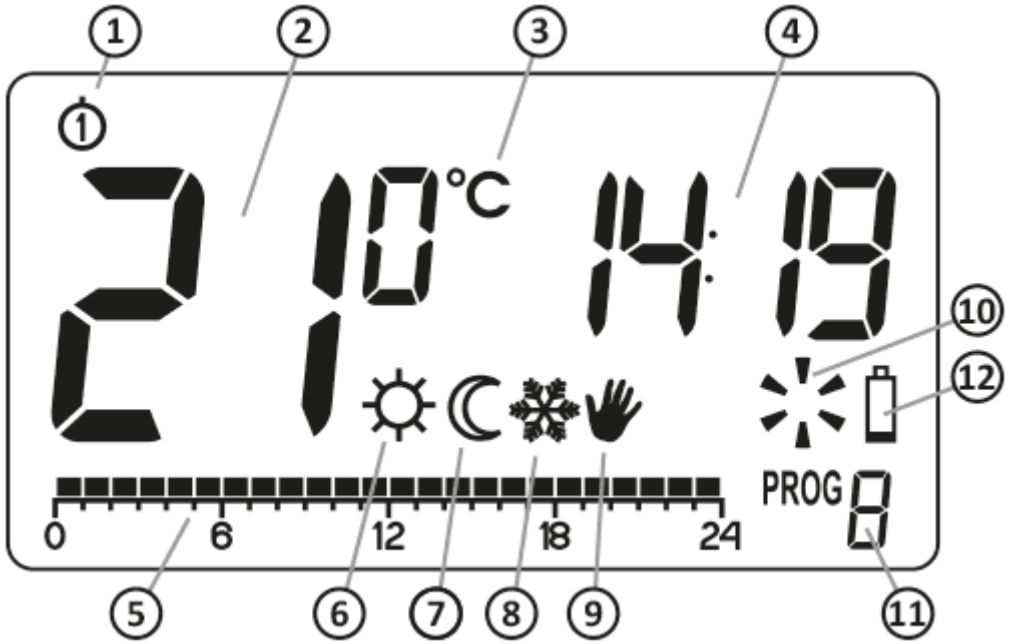

1. **Day of the week** (①-❼) - Indicates the day of the week. Each day is assigned a number.
2. **Temperature** - In normal operation mode, AURATON Tucana displays the temperature of the room in which it is installed.
3. **Temperature unit** - Informs that the temperature is displayed in degrees Celsius (° C).
4. **Clock**
   The time is displayed in the 24-hour system.
5. **Timeline**
   Program progress indicator. It is a line divided into 24 sections. Each episode

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corresponds to one hour. This line shows how the program will be executed *(see chapter: "Timeline")*

6. **Day mode indicator (☼)**
   Indicates AURATON Tucana is operating in day mode. *(see chapter: "Temperature programming")*
7. **Night mode indicator (☾)**
   Indicates AURATON Tucana is operating in night mode. *(see chapter: "Temperature programming")*
8. **Anti-freeze mode indicator (❄)**
   It indicates operation of AURATON Tucana in anti-freeze mode. *(see chapter: "Antifreeze mode")*
9. **Manual control indicator (✋)**
   Indicates the AURATON Tucana operation in manual mode *(see chapter: "Manual control" and "Vacation mode")*
10. **AURATON Tucana activation indicator (✳)**
    A segment informing about the device's operating status. Visible when the controlled device is turned on.
11. **Program**
    number Indicates the number of the currently running program. *(see chapters: "Factory programs" and "Weekly programming")*
12. **Battery exhausted (▯)**
    The indicator is visible when the minimum permissible battery voltage is exceeded. Replace the batteries as soon as possible.

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NOTE:

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

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Choosing the right location for AURATON Tucana

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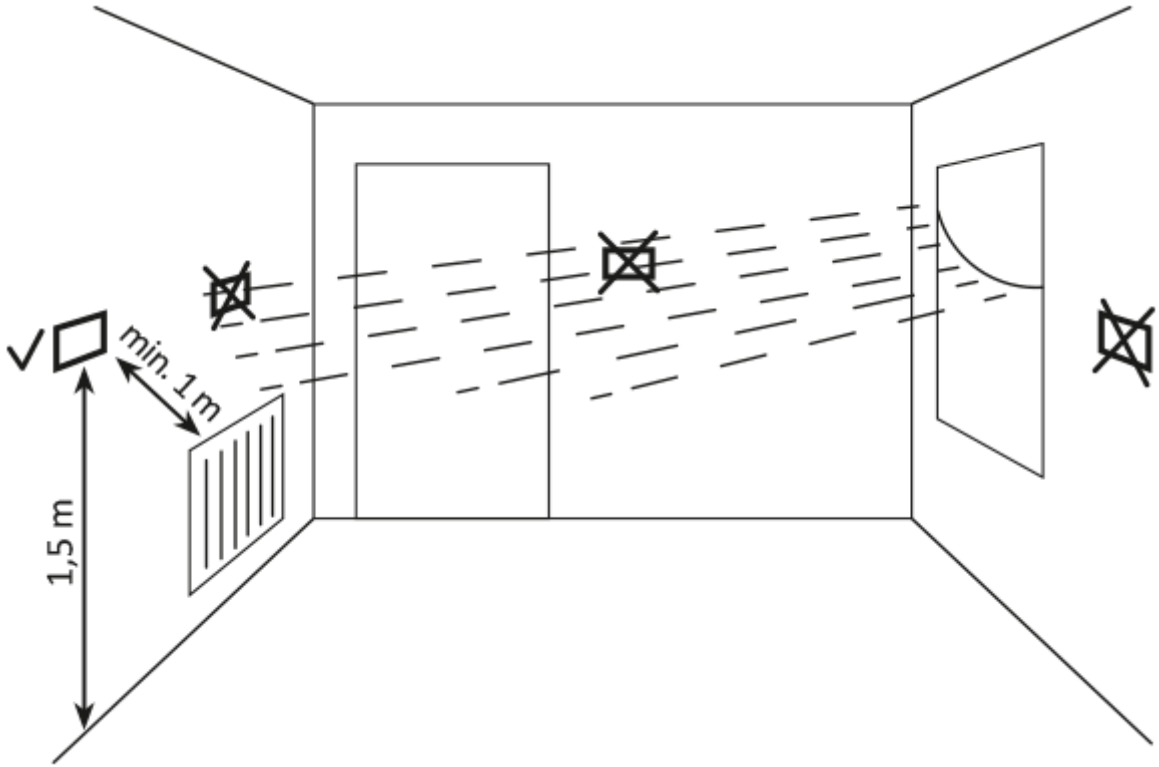

The correct operation of AURATON Tucana is largely influenced by its location. Location in a place with no air circulation or direct sunlight may result in incorrect temperature control. AURATON Tucana should be installed on the internal wall of the building (partition wall), in an environment of free 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 Tucana to possible vibrations.

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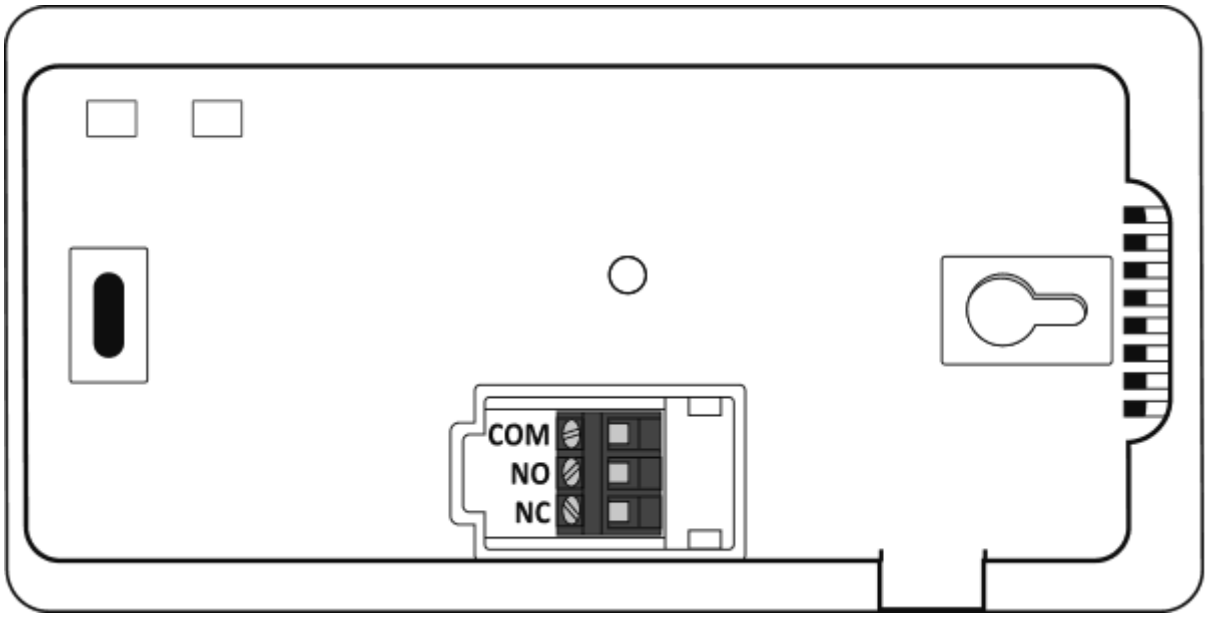
Connecting cables to AURATON Tucana

The cable clamps are located on the back of the AURATON Tucana. It is a typical single-pole two-state relay. In most cases, the NC terminal is not used.



Battery change

If the display shows the low battery symbol ( ), it means that the battery voltage has dropped to the minimum acceptable level. In this case, replace the batteries as soon as possible.

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

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

Mounting AURATON Tucana - weekly, wired temperature controller

To fix AURATON Tucana to the wall:

1. Drill two holes with a diameter of 6 mm in the wall (mark the spacing between the holes using the template attached to the manual).
2. Insert the wall plugs (included).
3. Tighten the left screw with 3mm of play.
4. Put the AURATON Tucana over the screw head and move it to the right (pay attention to the keyhole-like hole on the rear cover of the AURATON Tucana.

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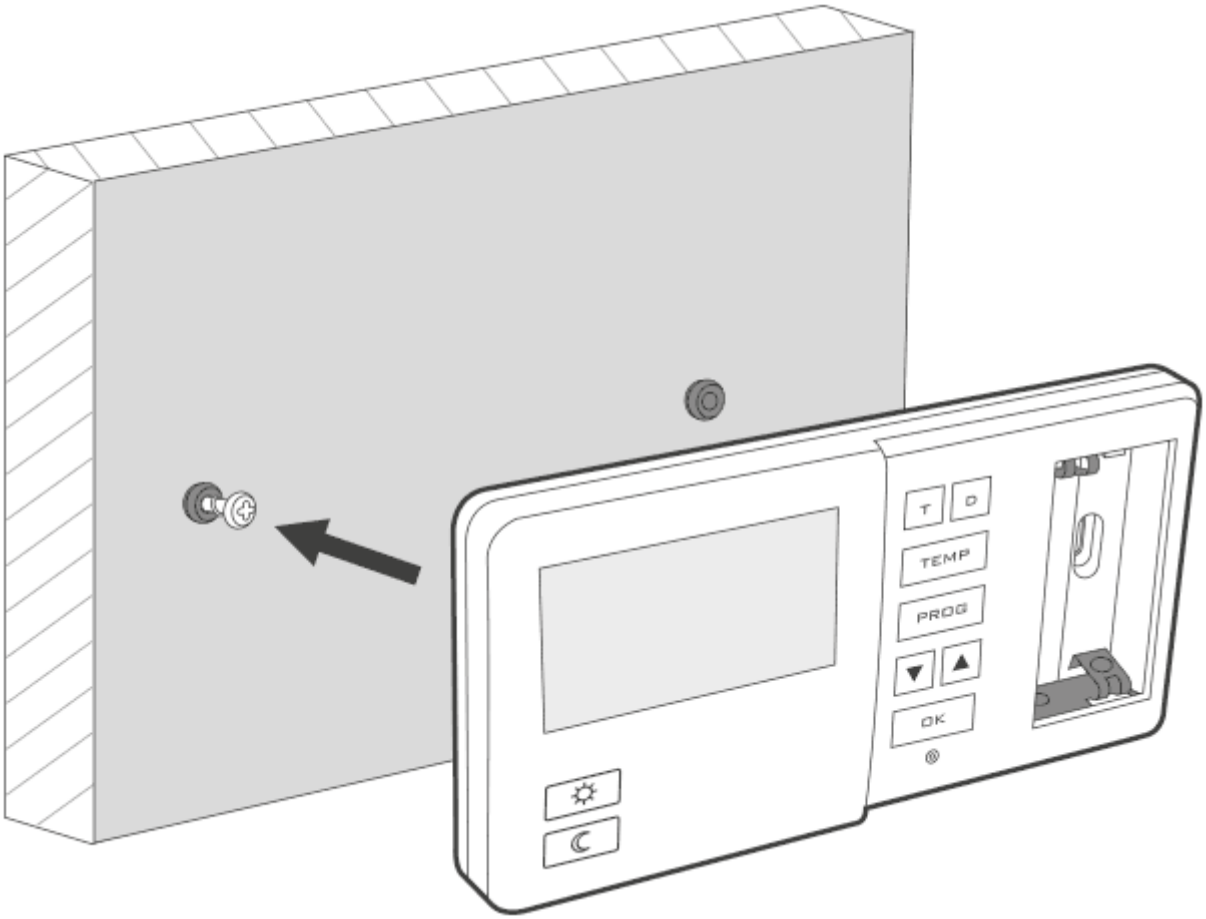

5. Screw in the right screw so that it holds the mounted AURATON Tucana firmly.

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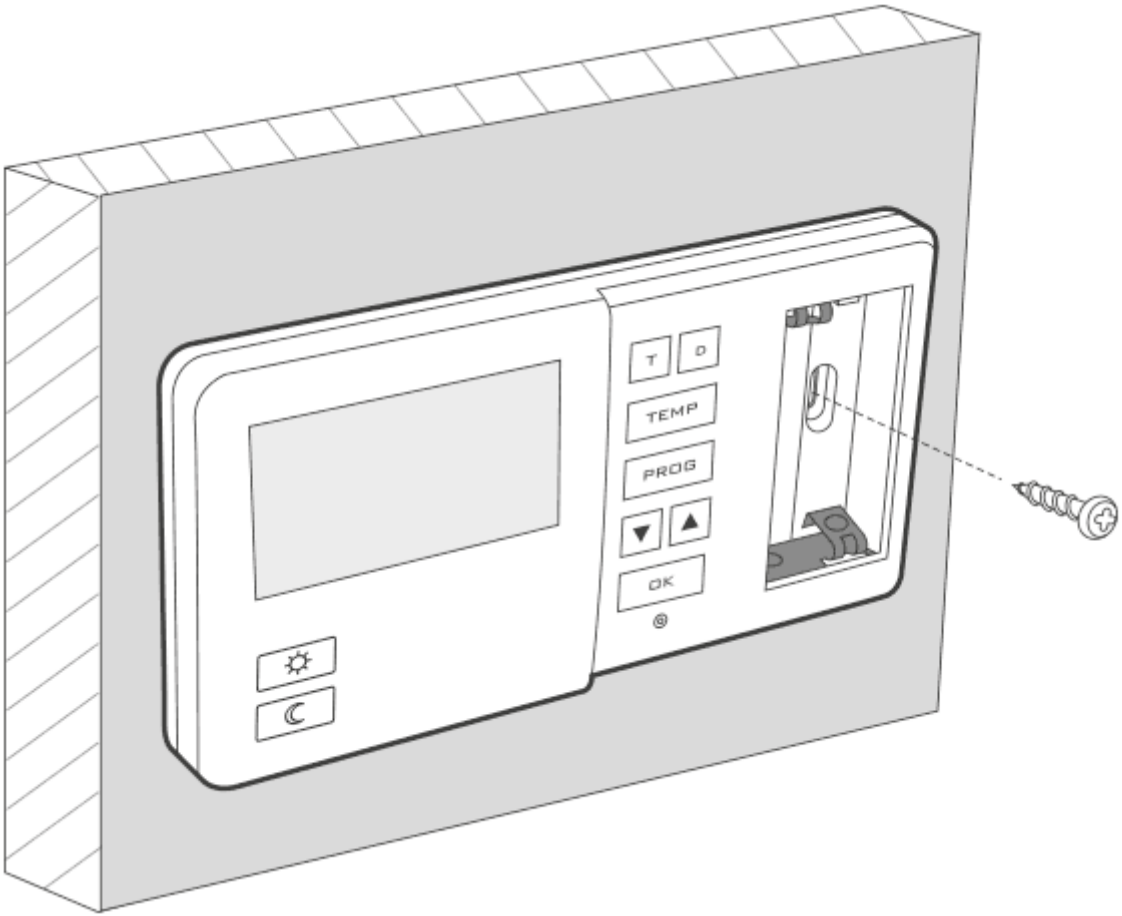

NOTE:
If the wall is wooden, no dowels are needed. Drill holes with a diameter of 2.7 mm instead of 6 mm and screw the screws directly into the wood.

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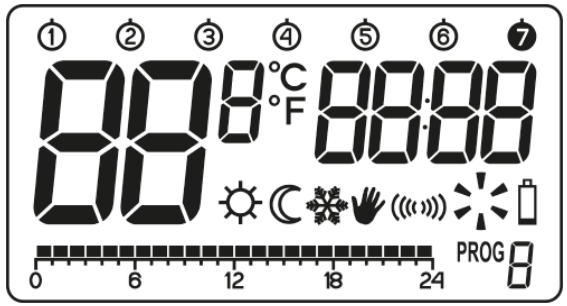
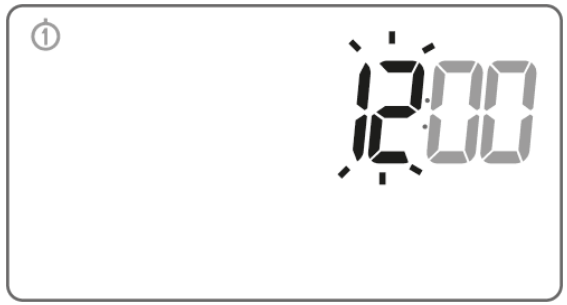
First launch of AURATON Tucana

After the batteries are correctly inserted into the sockets, all segments (display test) will appear on the LCD display for a second, followed by the software version number.



After a while, AURATON Tucana will automatically switch to the time setting. A flashing item on the screen means that it is currently in edit mode. Use the ▼▲ buttons to set the required hour and confirm by pressing OK .



The AURATON Tucana will go to the minutes setting. The setting is carried out again using the ▼▲ buttons and confirmed by pressing the OK buttons .

A flashing day of the week symbol appears in the upper left corner. Use

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the ▼▲ buttons to set the day you want and confirm your choice by pressing OK . AURATON Tucana will go into the normal operating mode.

NOTE:
When setting the hours for the first time, if you do not press any button for 60 seconds, AURATON Tucana will automatically switch to the normal operating mode.

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

Clock settings

To set the clock:

1. Press the T button . The hour segment will flash on the display.
2. Use the ▼▲ buttons to set the correct time.

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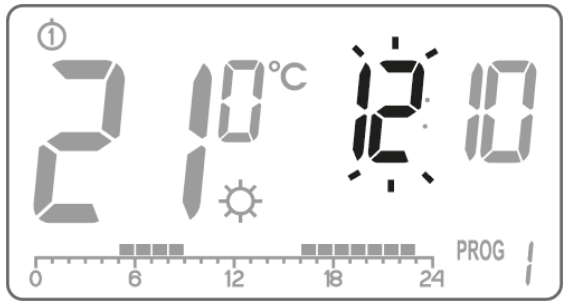

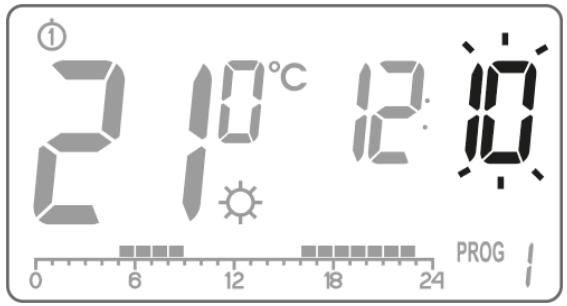

3. Then press the T button again . The minute segment will start flashing.
4. Use the ▼▲ buttons to set the minutes.
5. Confirm the whole process with the button OK .

Selecting the day of the week ①-⑦

To set the day of the week:

1. Press the D button . One of the digits symbolizing the given day of the week will start flashing on the display.

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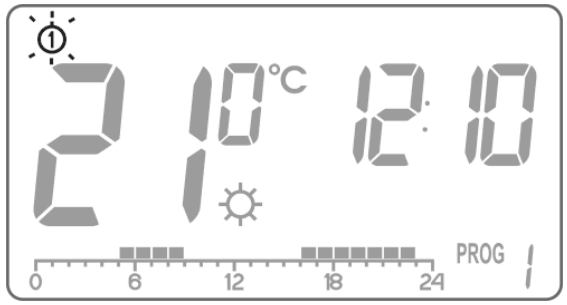
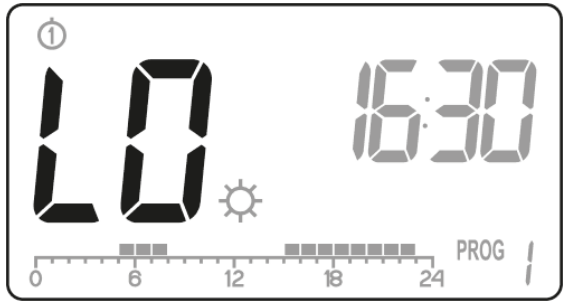
2. Use the ▼▲ buttons to select the appropriate day of the week.
3. Confirm the whole process with the button OK .

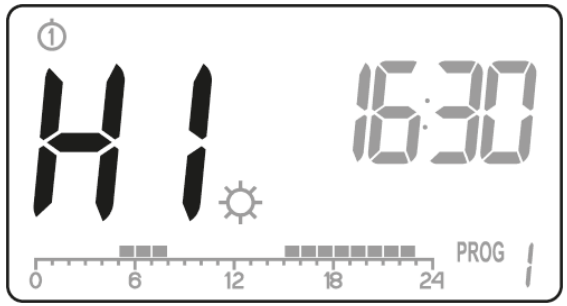


LO HI temperature

If the ambient temperature is lower than **5 ° C** , the message **"LO"** will appear on the display .



If the ambient temperature is higher than **35 ° C**
, the message **"HI"** will appear on the display .



Default setting of programs

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- **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, night and anti-freeze temperatures

AURATON Tucana allows you to program 3 types of temperature:

- Day temperature (☼) - 5 to 30 ° C
- Night temperature (☾) - from 5 to 30 ° C
- Anti-freeze temperature (❄) - from 4 to 10 ° C

To set one of the above temperatures:

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

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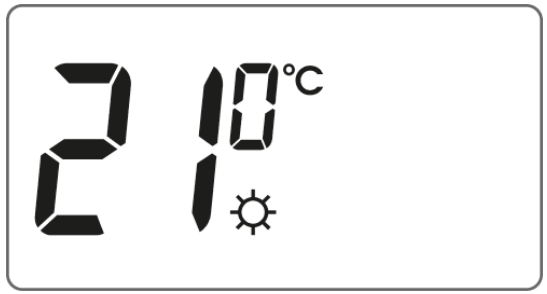
☼ **- day temperature,**
☾ **- night temperature,**
❄ **- anti-freeze temperature.**

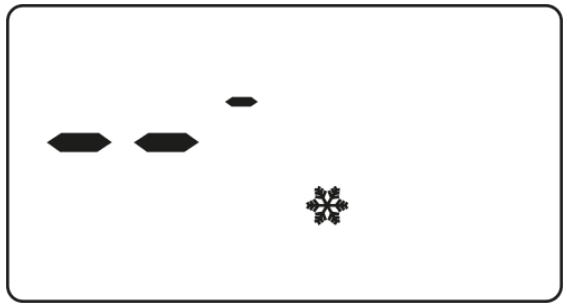


3. Use the ▼▲ buttons to set the desired temperature.
4. By pressing the button again TEMP we switch between the following types of temperatures to be set (☼ , ☾ , ❄).
5. After all 3 temperatures are set, confirm the setting by pressing OK .

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.

Disabling the anti-freeze temperature

To disable the anti-freeze temperature in AURATON Tucana, set the "dash symbol" on the display *(below 0 ° C or above 10 ° C)* when programming this temperature .



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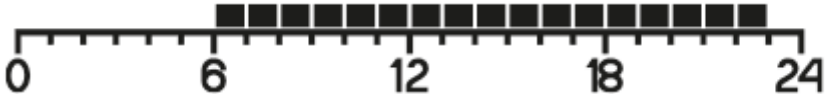
Introduction to programming

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 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 Tucana will control the heating device in such a way that the room temperature is at the daytime temperature (☼). From 23.00 to 6.00, AURATON Tucana will switch to night temperature (☾).

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In order for AURATON Tucana 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.

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

Program no. 3, 4,…., 9 - user
programs. Programs no. 3 to 9 are user programs. They can be freely changed and adapted to your requirements.

programming

Weekly programming

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The programming of AURATON Tucana 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 example of the AURATON Tucana operation mode from Monday to Sunday. Apart from the time periods specified below, AURATON Tucana will have a lower night temperature.

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

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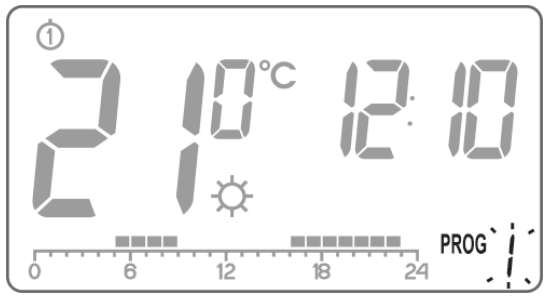
Saturday	8:00 am - 11:00 pm	
Sunday	8:00 am - 11:00 pm	

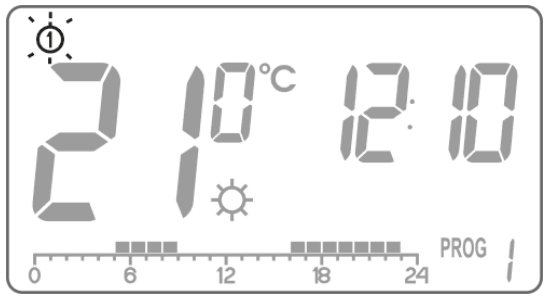
Program selection

To set the program:

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



2. Press the D button and then use the ▼ ▲ or D buttons to select the day of the week on which the program is to be carried out.



3. Press the PROG button several times

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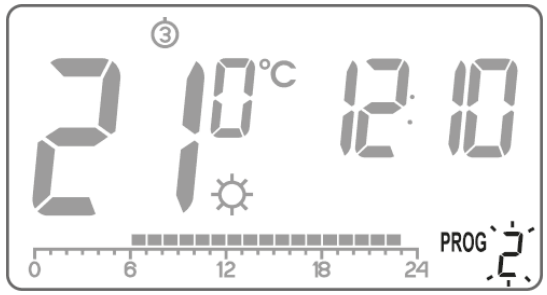
and select the desired program number. Programs **0-2** are factory-set, programs **3-9** are programs that can be modified.

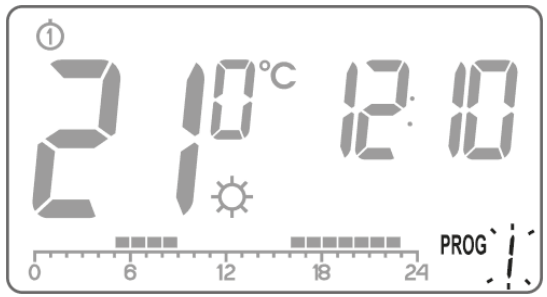


4. Confirm your selection by pressing .
5. Go back to step 1 and repeat the procedure for the next day of the week. When each day of the week has an appropriate program assigned to it, we can finish programming.

Modifying the user program

To set the program:

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



2. Press the D button and then use the ▼ ▲ or D buttons to select the day

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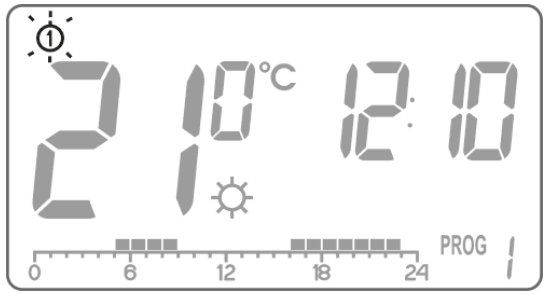
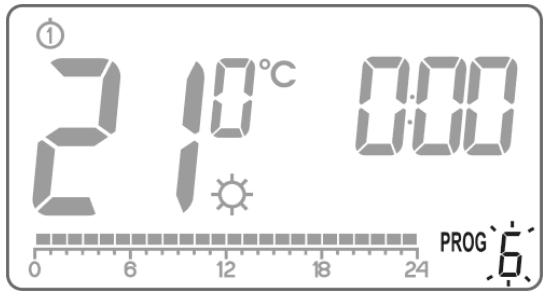
of the week on which the program is to be carried out.

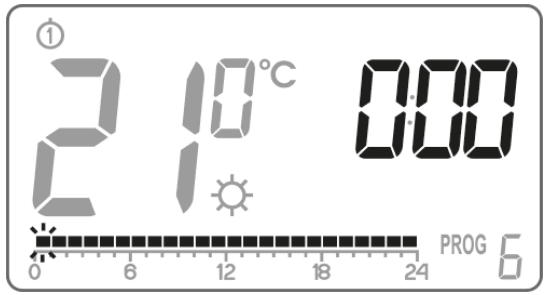


3. Press the PROG button several times and select program No. 3-9 (user-modifiable).



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 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.



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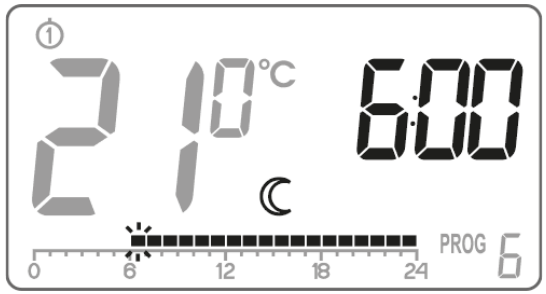
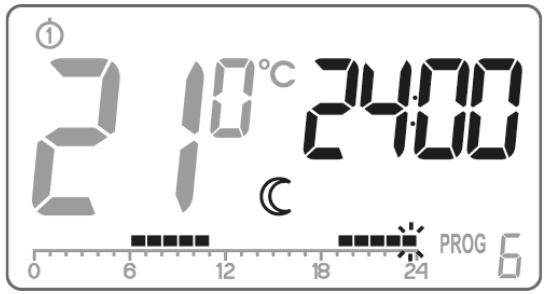
5. Button ☾ or ☼ select the day temperature (rectangle on) or night temperature (rectangle off) in the time line.



6. Press ▼▲ highlight another hour at the time and to select for each hour night or day-time temperature (highlight buttons or switch off the rectangle ☾ ☼).



7. After modifying the entire timeline, save the program by pressing OK

NOTE:
Once modified, the program can be assigned to other days of the week by selecting it on the desired day of the week.

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If for some reason you want to interrupt the current program at a given moment and extend the keeping of the day temperature, you can do it manually. To do this, you need to:

1. Press the button ☼ . The display shows the symbol ✋ . The comfortable temperature will then be maintained until the next temperature change realized by the program.
2. To cancel the above-mentioned function, press the button OK located under the battery cover - then the ✋ symbol will disappear from the display.

Similarly, if for any reason you want to interrupt the current program at a given moment and extend the maintenance of the night temperature, you should:

1. Press the button ☾ . The display shows the symbol ✋ . The night temperature will then be maintained until the next temperature change realized by the program.
2. To cancel the above-mentioned function, press the OK buttons .

Vacation mode

Sometimes we leave our homes for longer periods. To avoid reprogramming the entire AURATON Tucana from scratch, we can use the vacation mode, which makes AURATON Tucana realize only one temperature during our absence. The vacation mode may last a minimum of 1 hour and a maximum of 99 days.

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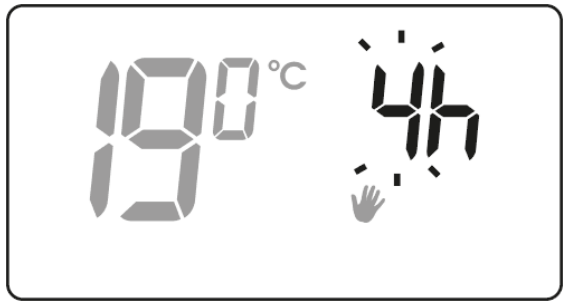
In order to activate the vacation mode:

1. Press the button ☼ or ☾ , hold for 3 seconds. The display will show the temperature and the flashing time field for which the holiday mode is set.
2. Use the ▼▲ buttons to set the time 1 - 23 hours, then 1 - 99 days. Confirm by pressing OK .



3. The temperature field begins to flash. We can set it with the ▼▲ buttons . Confirm your choice by pressing OK .

If we do not confirm the selection, AURATON Tucana will automatically go to the holiday mode set after 10 seconds. To exit the vacation mode, press the OK buttons .

NOTE:
The holiday temperature is independent of the day, night and anti-freeze temperature.

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Setting the anti-freeze temperature program 

In AURATON Tucana, you can set the anti-freeze temperature in the range from 0 ° C to 10 ° C without the possibility of switching off (the factory anti-freezing temperature is set to 7 ° C).

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 in the range from 0 ° C to 10 ° C. To set the anti-freeze program, simply select **program 0** on the day of the week you want.

Heating device operation time counter

AURATON Tucana has the function of counting the operating time of the heating device. It is activated by pressing and holding the OK button for 5 seconds. For 10 seconds, the controller display will show information about the heating device operation time since the last device reset.

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NOTE:
This time may not be the same as the actual working time of the heating device due to the fact that there are, for example, internal thermostats in heating devices.

Temporary switch off of the relay

After the heating season, in order to avoid accidental activation of the heating device, you can turn off the relay in AURATON Tucana.

Holding down the buttons simultaneously ☼ and ☾ for 5 seconds, it turns off the relay (the minimum temperature will be kept at 4 ° C) and turns off all display elements except for the current temperature, time and day of the week.
To restore the operation of all AURATON Tucana functions, press the buttons ☼ and again ☾ for 5 seconds.

RESET AURATON Tucana

Pressing the **RESET button** (⊙) Will erase the time and day and restart AURATON Tucana.

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MASTER RESET AURATON Tucana

MASTER RESET restores factory settings. It is performed by pressing the buttons  and **RESET** (⊙) Simultaneously .

NOTE:
All user programs are removed!

Configuration settings

Configuration settings are made one after another:

backlight color change → **hysteresis change** →
delay change → **offset change** → **clock work calibration**

To enter the configuration settings change mode, hold down the ▼ and ▲ buttons simultaneously for 5 seconds until the display backlight starts blinking.

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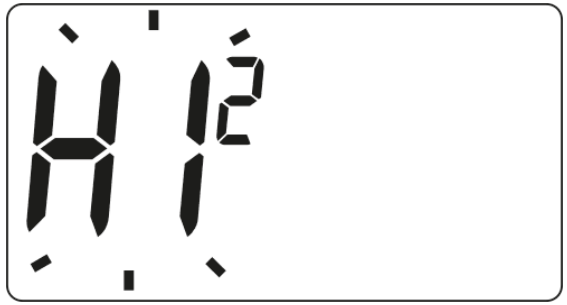
Illumination color change

Flashing backlight means that you can change the color of the backlight with the ▼▲ buttons . Confirm your choice by pressing 🔥🌡OK . AURATON Tucana 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, switching on will take place at 19.8 ° C, and switching off at 20.2 ° C. For the HI 4 hysteresis, when the temperature is set to 20 ° C, switching on will take place at 19.6 ° C, and switching off at 20.4 ° C.*



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The hysteresis change mode is signaled by the flashing text **HI** . Use the ▼▲ buttons to set the required hysteresis.

HI 2 - ± 0.2 ° C (factory set),
HI 4 - ± 0.4 ° C,
HI P - PWM operating mode (chapter "PWM operating mode").

Confirm your choice by pressing OK . AURATON Tucana will proceed to change the next parameter.

Change the delay

The delay prevents too frequent activation of the actuating device, e.g. due to temporary drafts (e.g. caused by opening the window).

The delay change mode is signaled by the flashing inscription **90: SE**
Use the ▼▲ buttons to turn the delay on or off.

90: SE - delay 90 seconds *(factory setting)*
0: SE - no delay

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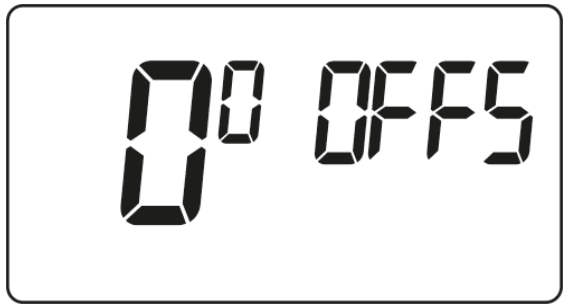
Confirm your selection by pressing . AURATON Tucana returns to the normal operating mode.

Offset change

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

The offset change mode is signaled by the flashing word OFFS. Use the buttons to set the required value in the range from -3.0 to 3.0 (factory setting - 0.0). Confirm your choice by pressing . AURATON Tucana returns to the normal operating mode.



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

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NOTE:
The first pressing of any function button always turns on the backlight, and 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 AURATON Tucana in the form of seconds.

Example 1:
After a week of work, AURATON Tucana shows 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 Tucana shows 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 Tucana work week (7 days = number of seconds to be added or subtracted, maximum 294 seconds).

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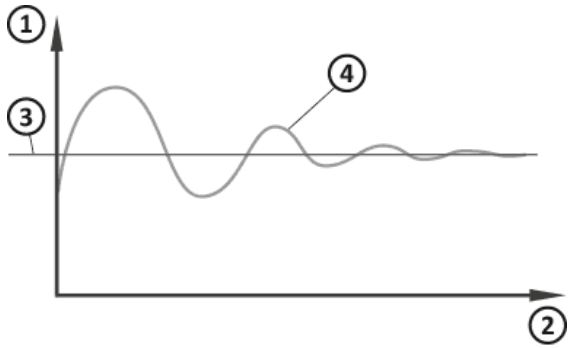
NOTE:
If no button is pressed for 10 seconds while changing the configuration settings, AURATON Tucana will return to the normal operating mode.

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 Tucana cyclically turns on the heating device in order to minimize temperature fluctuations. AURATON Tucana checks the temperature rise times and the temperature drop times.

Knowing these values, AURATON Tucana 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 Tucana 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.

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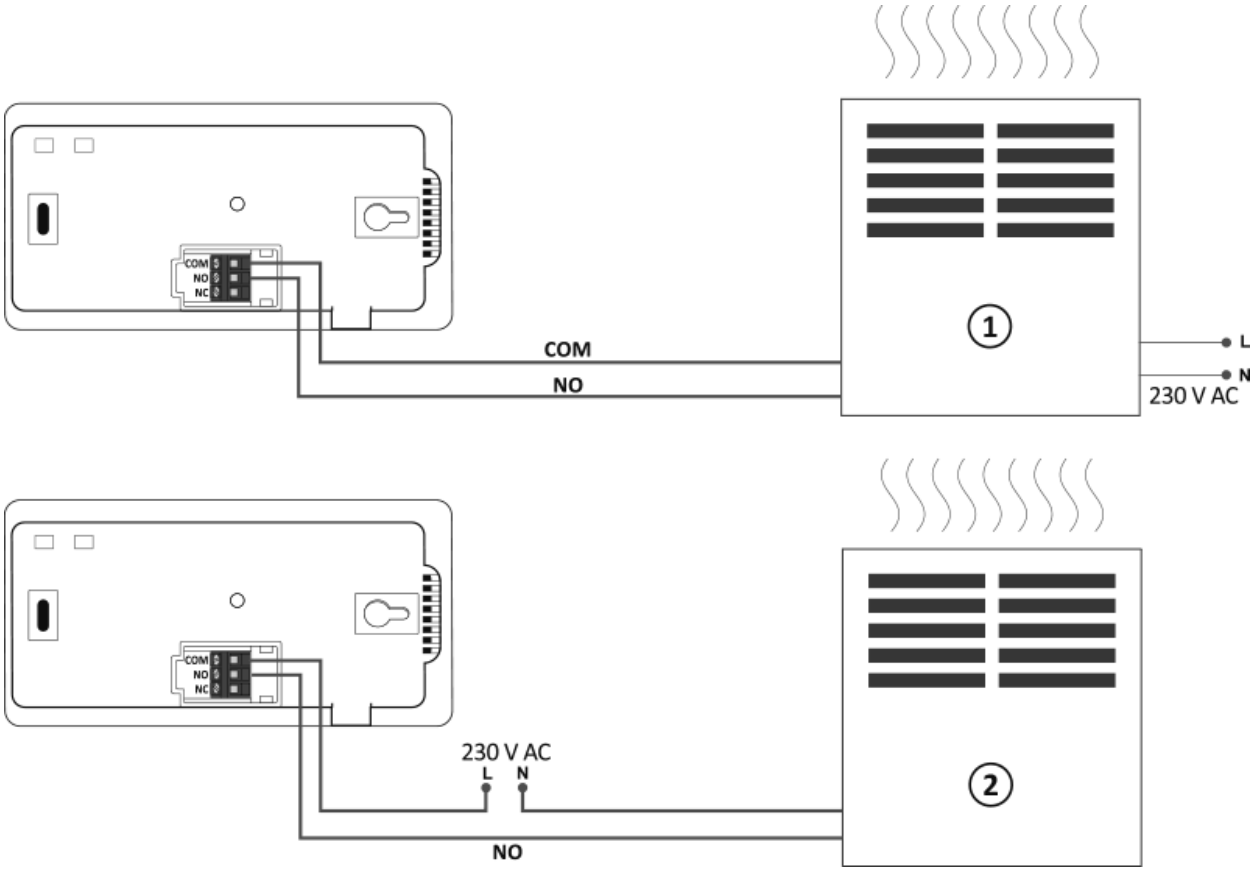

1. Heating device, *e.g. gas stove*
2. Electric heater (MAX 230 V AC, 16 A)

ATTENTION!

When installing AURATON Tucana, the power supply should be turned off. It is recommended to entrust the installation of the receiver to a specialist.

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

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Cleaning and maintenance

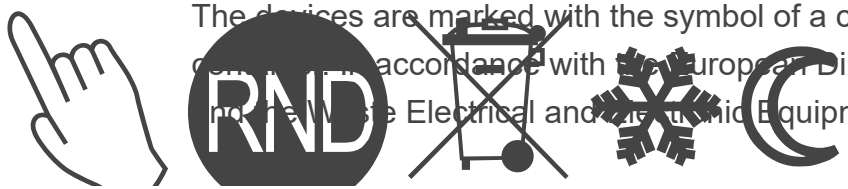
- The outside of the device should be cleaned with a dry cloth. Do not use solvents (such as benzene, thinner, or alcohol).
- Do not touch the device with wet hands. It may cause electric shock or serious damage to the device.
- Do not expose the device to excessive smoke or dust.
- Do not touch the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

Technical data

Power supply:	2 x AA (2 x 1.5V), alkaline
Working temperature range:	0-45 ° C

Operation status signaling:	LCD display
Number of temperature levels:	3 + vacation
Anti-freeze temperature:	0-10 ° C
Temperature control range:	5-30 ° C
Hysteresis:	± 0.2 ° C / ± 0.4 ° C / PWM
Maximum load current:	Max. 250 V AC, max. 8 A.
Work cycle:	Weekly, programmable
Level of security:	IP20
Dimensions [mm]:	155 x 80 x 25

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 Waste Electrical and Electronic Equipment Act, such marking

informs 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.

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

To download

- User manual
- Declaration of Conformity