



- A daily, wired temperature controller
- Description of AURATON Cetus
- The first launch of AURATON Cetus
- "Manual" mode setting
- FrostGuard function
- Hysteresis change
- PWM operating mode
- Remarks
- Connection diagram of AURATON Cetus
- Cleaning and maintenance
- Technical data
- Disposal of the device
- To download

AURATON Cetus



User manual ver. 20200926

The document contains information on the safety, installation and use of the AURATON Cetus device.

A daily, wired temperature controller

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



FrostGuard function.

Protection against freezing of the room.



Possibility of temporarily lowering the programmed temperature

For a maximum period of 12 hours.



Vacation mode

Up to eight days independent of the programmed temperature.

LCD

Backlit LCD display

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

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance

Technical data

Disposal of the device

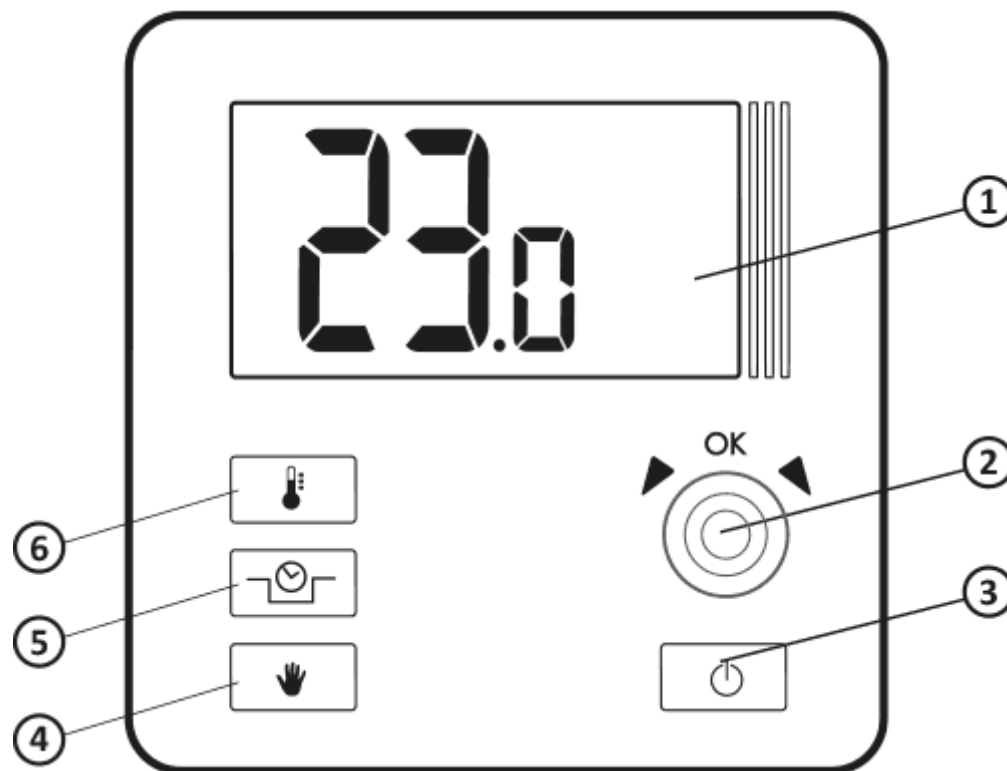
To download



Description of AURATON Cetus

daily, wired temperature controller

On the front part of the controller housing there is a backlit LCD display, four function buttons and a temperature setting knob with a button (OK) .



A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance

Technical data

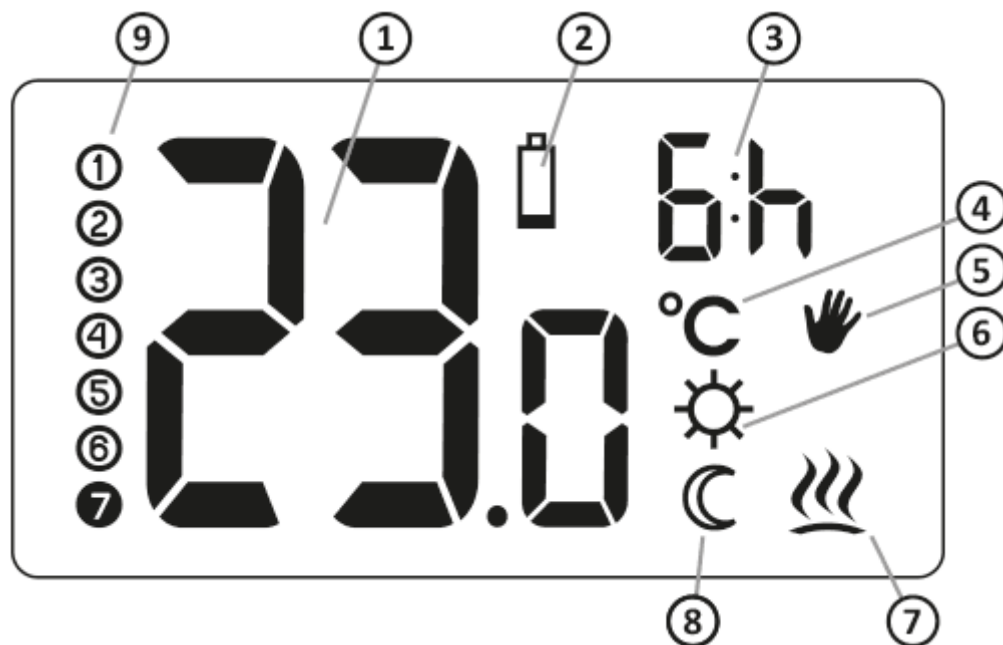
Disposal of the device

To download



1. LCD display
2. Setting knob with integrated push button (OK)
3. On / off button regulator
4. Manual mode button
5. "Temporary temperature reduction" button
6. Temperature setting button

Display



A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus






Cleaning and maintenance

Technical data

Disposal of the device

To download



1. **Temperature** - In the normal operation mode, AURATON Cetus displays the temperature of the room in which it is installed.
2. **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.
3. **Temporary temperature reduction duration indicator**
Shows how long the temporary temperature reduction mode will remain active.
4. **Temperature unit**
Indicates that the temperature is displayed in degrees Celsius (°C).
5. **Manual mode indicator** ()
Indicates that you are in manual (vacation) temperature setting.
6. **Temporary temperature reduction mode programming indicator** ()
Indicates the user scheduled "temporary temperature reduction" mode. It appears when the mode is not currently implemented, but the "temporary temperature reduction" function is active. (more information in the chapter "Setting the temporary temperature reduction mode")
7. **AURATON Cetus activation indicator** ()
Pictogram informing about the operating status of the device. Visible when the controlled device is turned on.
8. **Temporary temperature decrease mode indicator** ()
Appears while the temporary temperature decrease program is running.

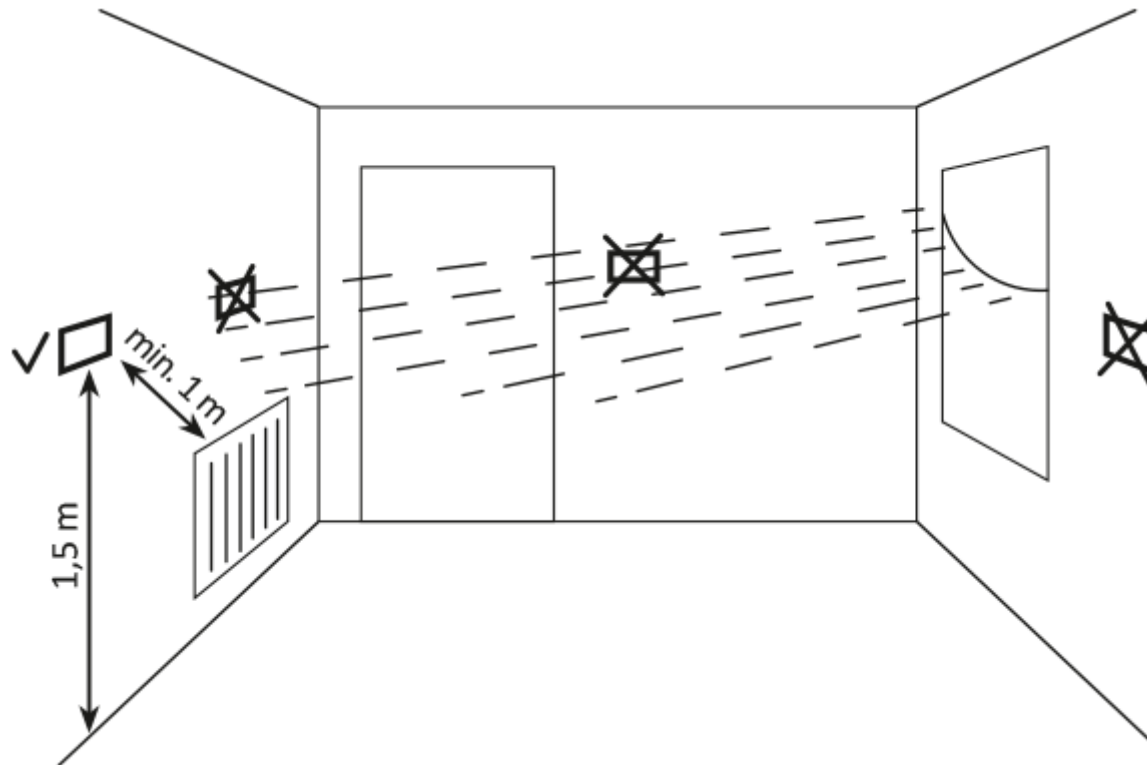
A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting
FrostGuard function
Hysteresis change
PWM operating mode
Remarks
Connection diagram of AURATON Cetus
Cleaning and maintenance
Technical data
Disposal of the device
To download



9. Number of days in "vacation" mode (☉-☿)

Indicates the number of days for which vacation mode is scheduled.

Choosing the right location for AURATON Cetus



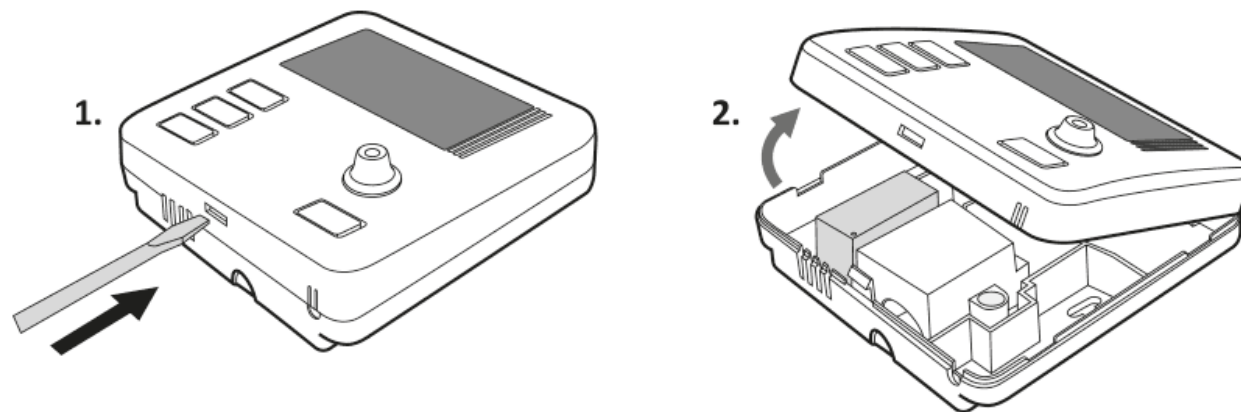
A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting
FrostGuard function
Hysteresis change
PWM operating mode
Remarks
Connection diagram of AURATON Cetus
Cleaning and maintenance
Technical data
Disposal of the device
To download



The correct operation of AURATON Cetus is largely influenced by its location. Location in a place with no air circulation or direct sunlight may result in incorrect temperature control. AURATON Cetus 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 Cetus to possible vibrations.

Connecting cables to AURATON Cetus

To connect the wires, remove the cover as shown below:



The cable clamps are located on the back of the AURATON Cetus, **under the plastic cover.**

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

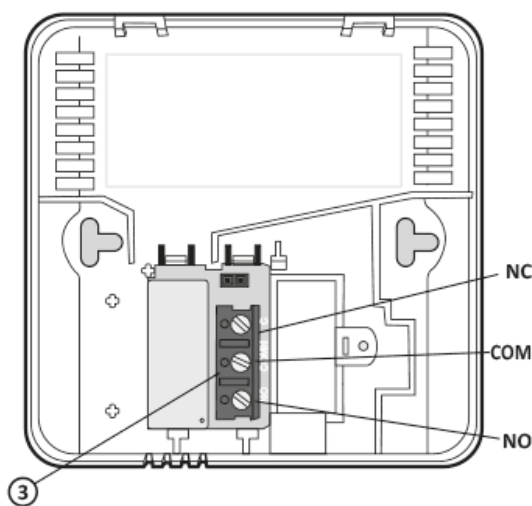
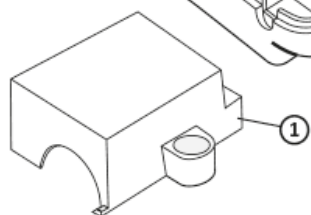
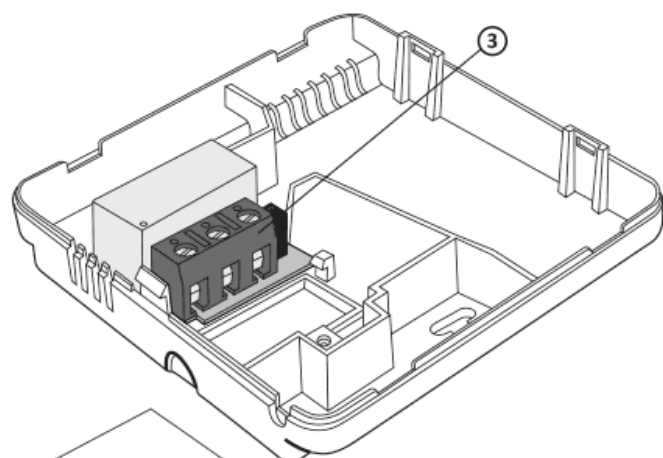
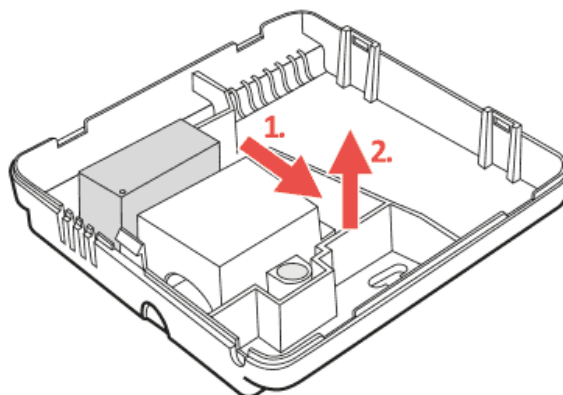
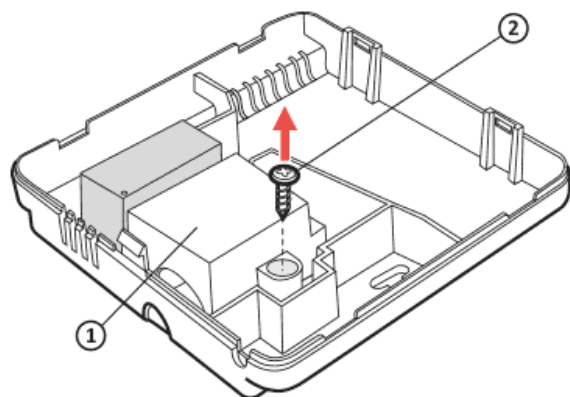
Cleaning and maintenance

Technical data

Disposal of the device

To download





- 1. cover
- 2. screw
- 3. wire clamps

A daily, wired temperature controller
 Description of AURATON Cetus
 The first launch of AURATON Cetus
 "Manual" mode setting
 FrostGuard function
 Hysteresis change
 PWM operating mode
 Remarks
 Connection diagram of AURATON Cetus
 Cleaning and maintenance
 Technical data
 Disposal of the device
 To download



It is a typical single-pole two-state relay. In most cases, the NC terminal is not used.

NOTE:

After connecting the wires, put the plastic cover back on.

Battery change

The battery socket is located inside the AURATON Cetus on the front of the housing. To install the batteries, remove the controller housing as shown in the chapter "Connecting the cables to the AURATON Cetus".

NOTE:

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

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

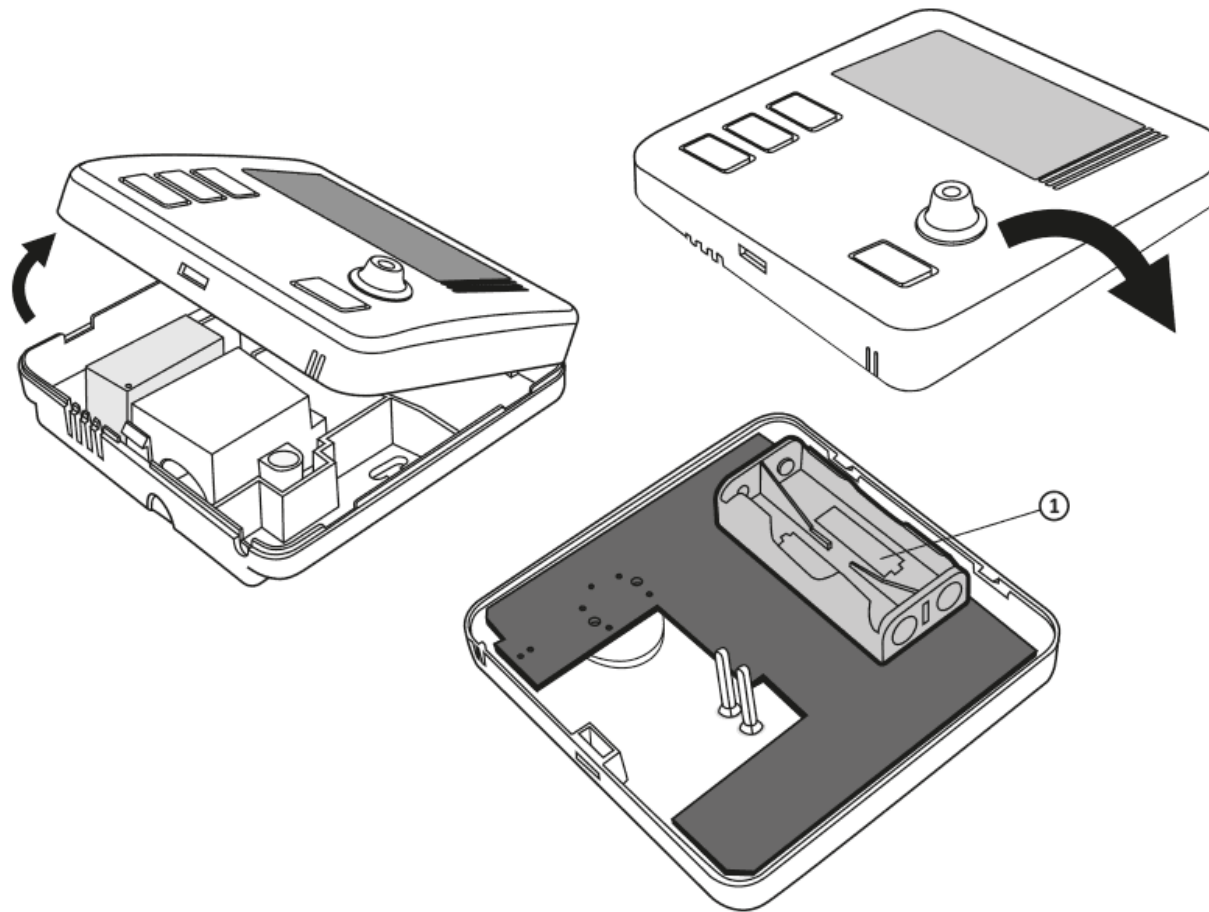
Cleaning and maintenance

Technical data

Disposal of the device

To download






1. - 1.5V AAA battery socket

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

A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting
FrostGuard function
Hysteresis change
PWM operating mode
Remarks
Connection diagram of AURATON Cetus
Cleaning and maintenance
Technical data
Disposal of the device
To download



NOTE:

After replacing the battery and folding the housing, we recommend pressing the button twice  to stabilize the relay operation.

Mounting AURATON Cetus - a daily, wired temperature controller

To fix the AURATON Cetus controller to the wall:

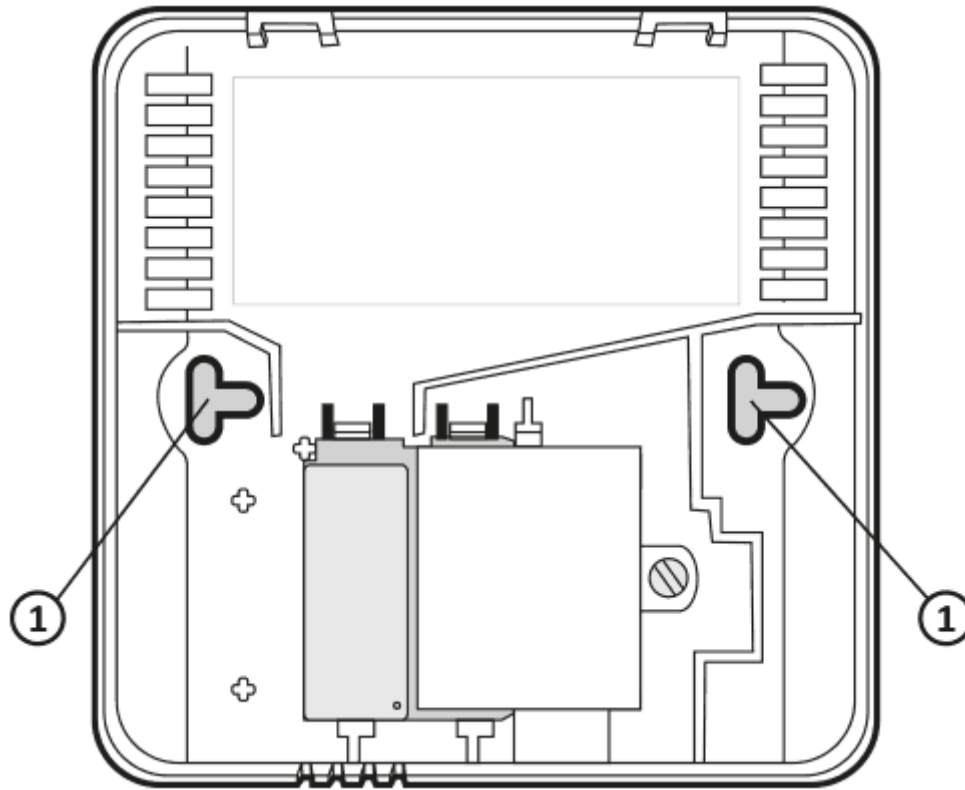
1. Remove the regulator casing (*as shown in the section "Connecting the cables to the AURATON Cetus"*)
2. Drill two holes 6 mm in diameter in the wall (*mark the spacing between the holes using the rear part of the AURATON Cetus housing*).
3. Put the wall plugs in the drilled holes.
4. Screw the rear part of the AURATON Cetus housing to the wall using the screws included in the kit.
5. Put the AURATON Cetus housing 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.

A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting
FrostGuard function
Hysteresis change
PWM operating mode
Remarks
Connection diagram of AURATON Cetus
Cleaning and maintenance
Technical data
Disposal of the device
To download





1. fixing screw hole

Putting the cover on: NOTE

When putting the front part of the housing back on the rear part, pay attention to the pins that control the relay.

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

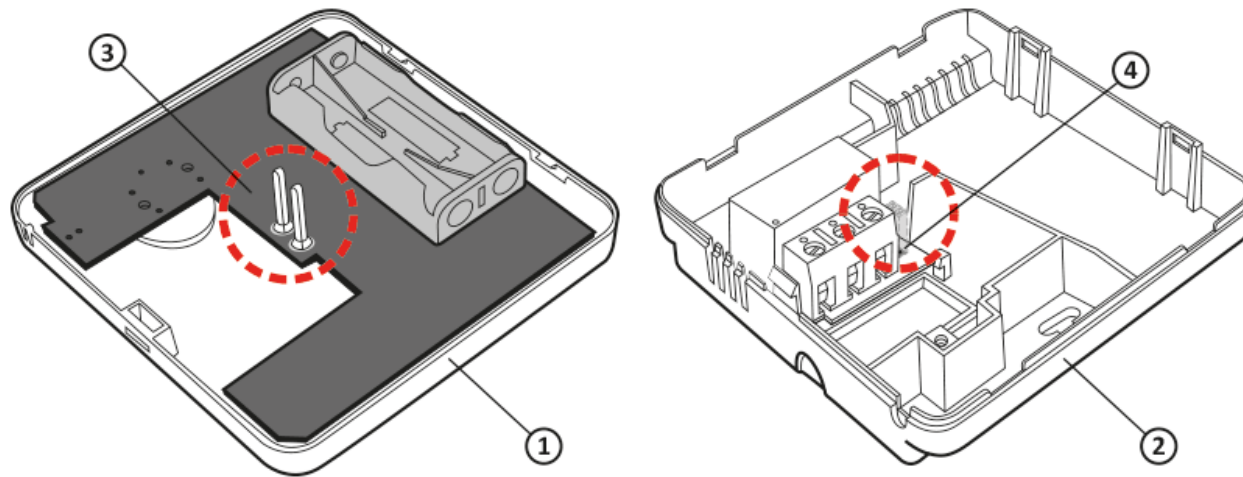
Cleaning and maintenance

Technical data

Disposal of the device

To download





1. Front housing
2. Rear housing
3. Pins
4. Pin connector socket or the place where pins contact the board

ATTENTION:

When assembling the housing, make sure that the connection "pins" are not bent and fall into their place on the relay board. This is crucial for the proper operation of the regulator.

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance

Technical data

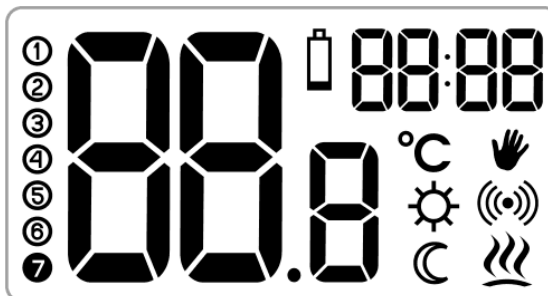
Disposal of the device

To download

The first launch of AURATON Cetus



After the batteries are properly inserted into the sockets, all segments (display test) will appear on the LCD display for a second, followed by the software version number (eg F12).



After a while, the current room temperature will be displayed automatically. AURATON Cetus is ready to work.




Temperature setting

NOTE:

The first pressing of any function button always turns on the backlight, and only the next call of the button function.

After a while, the current room temperature will be displayed automatically. AURATON Cetus is ready to work. To set the desired temperature in the normal operation mode:

1. Press the  button . The segment displaying the current room

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus


Cleaning and maintenance

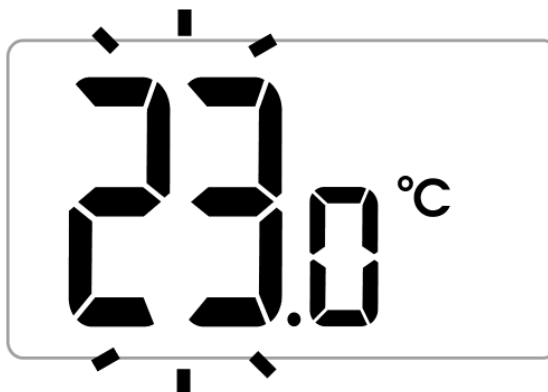
Technical data

Disposal of the device


To download




- temperature will start blinking.
- By turning the knob to the left or right, with an accuracy of 0.2 ° C, you set the desired temperature in the room.
 - Confirm the selection with the button 



Setting the "temporary temperature reduction" mode

 If, for various reasons, we would like to lower the temperature in the room at a certain time of the day, it is possible to temporarily reduce it by a maximum of 5 ° C. To do this:

- Press and hold the  button for 3 seconds . The display will show the moon (☾), the hour field (e.g. 6:h), and the segment responsible for showing the temperature will enter the edit mode and start blinking.



A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus


Cleaning and maintenance

Technical data


Disposal of the device

To download





2. By turning the knob to the left or right, we set the temperature reduction by a value from 1 ° C to 5 ° C. Confirm the selection with the button .



3. The hour field on the display changes to edit mode and starts blinking. Using the knob again, we set the number of hours for which the reduced temperature programmed by us is to apply. You can choose from 1 to 12 hours. Confirm your selection by pressing .
4. For the selected number of hours, AURATON Cetus will be in the "temporary temperature reduction" mode and will start it every day at the same time.

NOTE:

After the set hourly time, AURATON Cetus will return to the basic temperature setting. Instead of the moon (), the sun () will appear on the screen

NOTE:

The temporary temperature reduction mode always starts at the moment of confirming the edition of the function. This means that any temporary temperature reduction should be programmed at a time when we want such a change to take place.

A daily, wired temperature controller
 Description of AURATON Cetus
 The first launch of AURATON Cetus
 "Manual" mode setting
 FrostGuard function
 Hysteresis change
 PWM operating mode
 Remarks
 Connection diagram of AURATON Cetus
 Cleaning and maintenance
 Technical data
 Disposal of the device
 To download



Disabling the "temporary temperature reduction"

AURATON Cetus will implement the programmed temporary temperature reduction mode every day at the same time until the temporary temperature reduction is not turned off. Exclusion is the repeated pressing and holding the button for 3 seconds




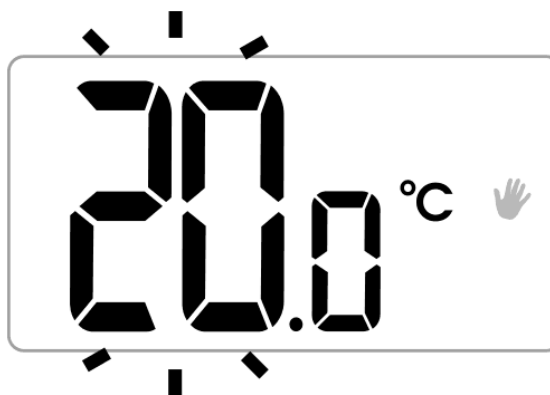
"Manual" mode setting



If we want to temporarily suspend the normal or temporarily reduced temperature, it is possible to set the "manual" program, valid for a maximum of 8 days. To do this:

1. Press the  button .

The hand symbol () will appear on the display , and the segment responsible for showing the current temperature will enter the edit mode and start blinking.



2. By turning the knob to the left or

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus


Cleaning and maintenance

Technical data


Disposal of the device

To download



right, we set the desired temperature value. Confirm the selection with the button .



3. The hour field on the display changes to edit mode and starts blinking. You can use the knob to select the number of hours during which the manual temperature setting is to apply. Days are added or subtracted automatically when the value of 24 hours is exceeded. You can select a maximum of 7 days and 24 hours. Confirm your selection by pressing .



NOTE:

Manual mode is not automatically repeated. After the programmed time has elapsed, AURATON Cetus returns to the implementation of previous temperature programs: normal mode and temporary temperature reduction, if the latter was previously planned.

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance


Technical data

Disposal of the device


To download



Early deactivation of the "manual" mode


AURATON Cetus will continue the programmed manual mode until the programmed time has elapsed. To deactivate the "manual" mode, press the  button again .

Checking the set temperature

Holding down the button  for at least 2 seconds allows you to check the currently programmed temperature of the controller. Correct performance of the operation results in the display of a flashing segment responsible for showing the set temperature of the device. The function is active in each of the AURATON Cetus operating modes.

FrostGuard function

AURATON Cetus is equipped with a special FrostGuard function that protects the room against possible freezing. This function is activated when **AURATON Cetus is turned off** .

With AURATON Cetus turned off, when the temperature in the room drops to 2 ° C, the symbols (Fr) And () appear on the display and the relay will turn on. When the temperature rises to 2.2 ° C, the display will turn off again and the relay will disconnect the contacts.

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance

Technical data

Disposal of the device




To download

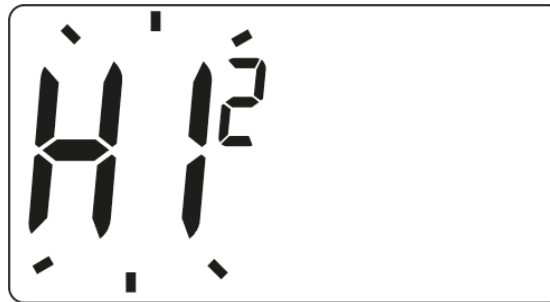


Hysteresis change

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.*

To switch to the hysteresis change mode, hold down the ,  and  buttons simultaneously for 3 seconds.



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),

HI 4 - ± 0.4 ° C,

HI P - PWM operating mode (chapter "PWM operating mode").

Confirm the selection by pressing the button . The controller will return to normal operation.

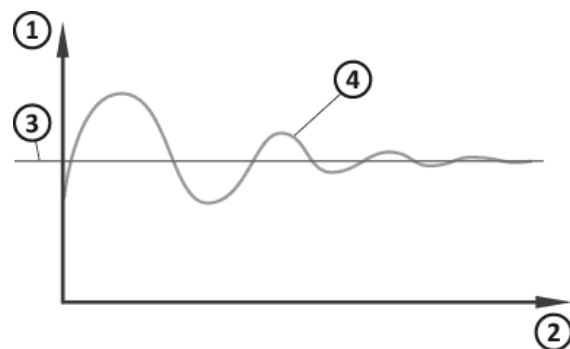
A daily, wired temperature controller
 Description of AURATON Cetus
 The first launch of AURATON Cetus
 "Manual" mode setting
 FrostGuard function
 Hysteresis change
 PWM operating mode
 Remarks
 Connection diagram of AURATON Cetus
 Cleaning and maintenance
 Technical data
 Disposal of the device
 To download



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

Knowing these values, AURATON Cetus turns the heating device on and off 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

NOTE:

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

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance



Technical data

Disposal of the device

To download



Remarks

- AURATON Cetus can be turned on or off at any time by momentarily holding down the  button .
- 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 .
- After the relay is turned off (heating function), it can be turned on again not earlier than after 90 seconds.

Connection diagram of AURATON Cetus

NOTE:

AURATON Cetus can work with a gas or electric heating device.

A daily, wired temperature controller

Description of AURATON Cetus

The first launch of AURATON Cetus

"Manual" mode setting

FrostGuard function

Hysteresis change

PWM operating mode

Remarks

Connection diagram of AURATON Cetus

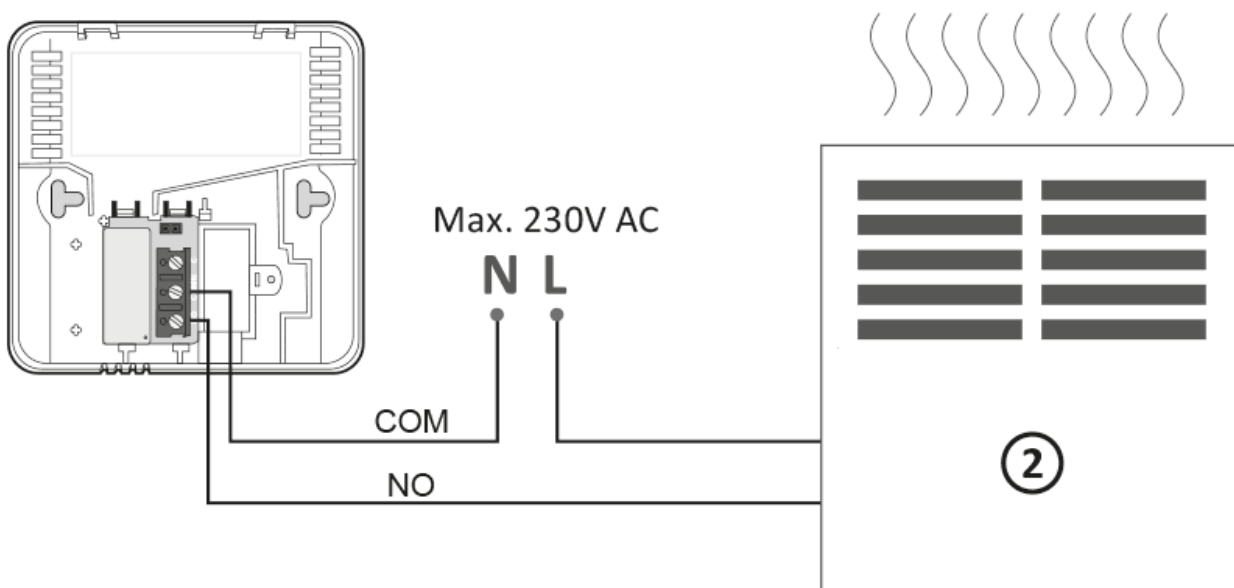
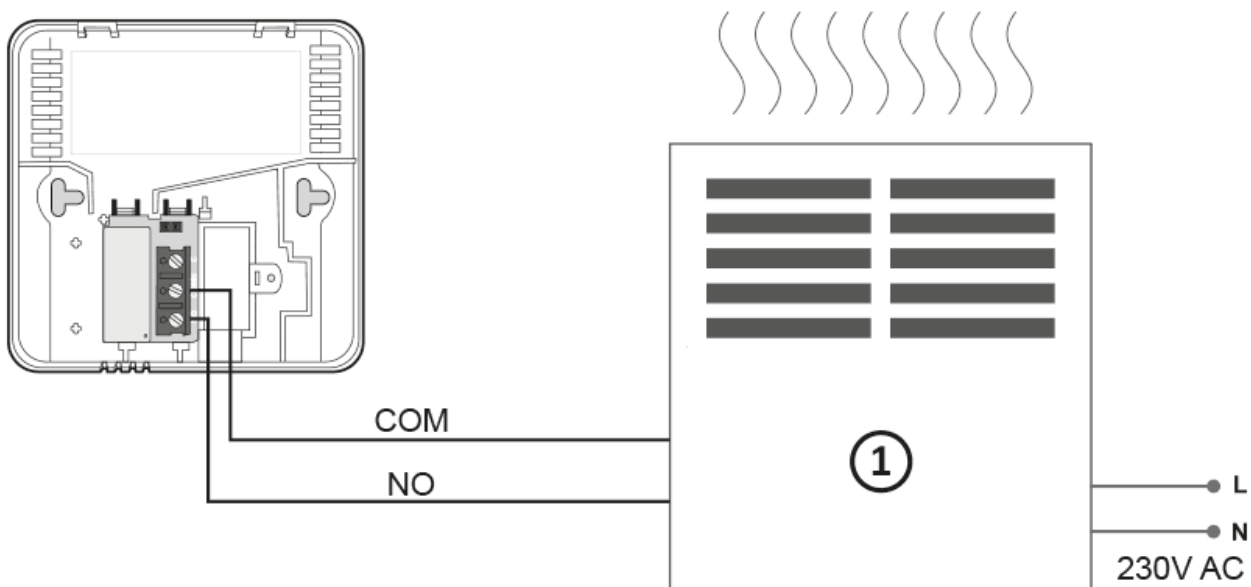
Cleaning and maintenance

Technical data

Disposal of the device

To download





A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting

FrostGuard function
Hysteresis change
PWM operating mode

Remarks

Connection diagram of AURATON Cetus

Cleaning and maintenance

Technical data

Disposal of the device

To download



1. Heating device, e.g. *gas stove*
2. Electric heater (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

Power supply:	2 x AAA (2 x 1.5V), alkaline
Working temperature range:	0-45 ° C
Operation status signaling:	LCD display

A daily, wired temperature controller
Description of AURATON Cetus
The first launch of AURATON Cetus
"Manual" mode setting
FrostGuard function
Hysteresis change
PWM operating mode
Remarks
Connection diagram of AURATON Cetus
Cleaning and maintenance
Technical data
Disposal of the device
To download

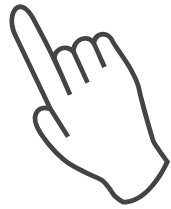


Number of temperature levels:	1
Anti-freeze temperature:	2 ° C
Temperature measuring range:	0-35 ° C
Temperature control range:	5 - 35 ° C
Temperature setting accuracy:	0.2 ° C
Hysteresis:	± 0.2 ° C / ± 0.4 ° C / PWM
Relay load capacity:	Max. 250 V AC, max. 16 A.
Work cycle:	Daily
Level of security:	IP20
Dimensions [mm]:	90 x 90 x 36

A daily, wired temperature controller
 Description of AURATON Cetus
 The first launch of AURATON Cetus
 "Manual" mode setting
 FrostGuard function
 Hysteresis change
 PWM operating mode
 Remarks
 Connection diagram of AURATON Cetus
 Cleaning and maintenance
 Technical data
 Disposal of the device
 To download

Disposal of the device





The devices are marked with the symbol of a crossed-out waste bin in accordance with the European Directive 2012/19 / EU on Waste Electrical and Electronic Equipment Act, such marking indicates 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



© 2021 AURATON manuals

