AURATON Aquila Mini R

Instruction manual version 20250313
This document contains information regarding the safety, installation, and operation of the AURATON Aquila Mini R device.

Wireless Thermostat

AURATON Aquila Mini R is a wireless thermostat designed to work with the AURATON Fornax heating device controller.

Factory-installed lithium battery
The AURATON Aquila Mini R wireless thermostat is equipped with a high-quality lithium battery, ensuring uninterrupted operation of the thermostat for up to 10 years. Market-available thermostats generally require battery replacement once a year. Therefore, a standard thermostat usually needs 10 to 20 batteries in the same period. This results in additional costs and introduces harmful substances into the environment.

Interference-free communication between devices
AURATON Aquila Mini R and AURATON Fornax communicate at a frequency of 868 MHz. Very short encrypted transmission packets (approx. 0.004 s) ensure efficient and interference-free operation of the device.
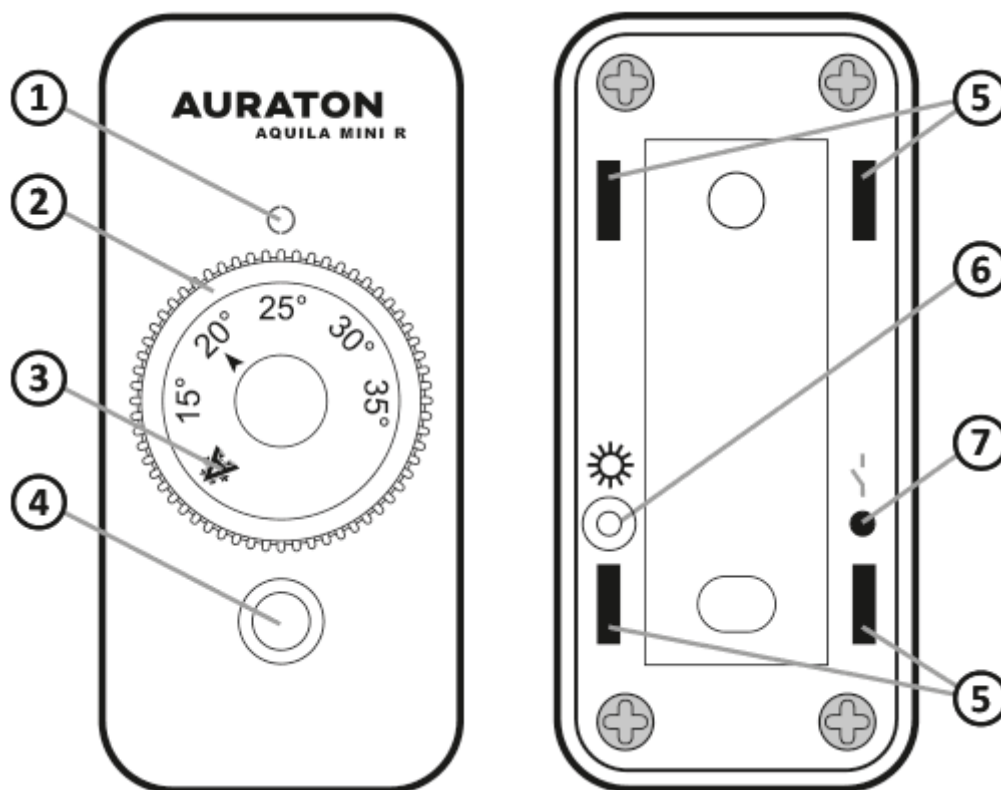
LEDs
LEDs clearly indicate the operating status of the devices

Description of the AURATON Aquila Mini R thermostat
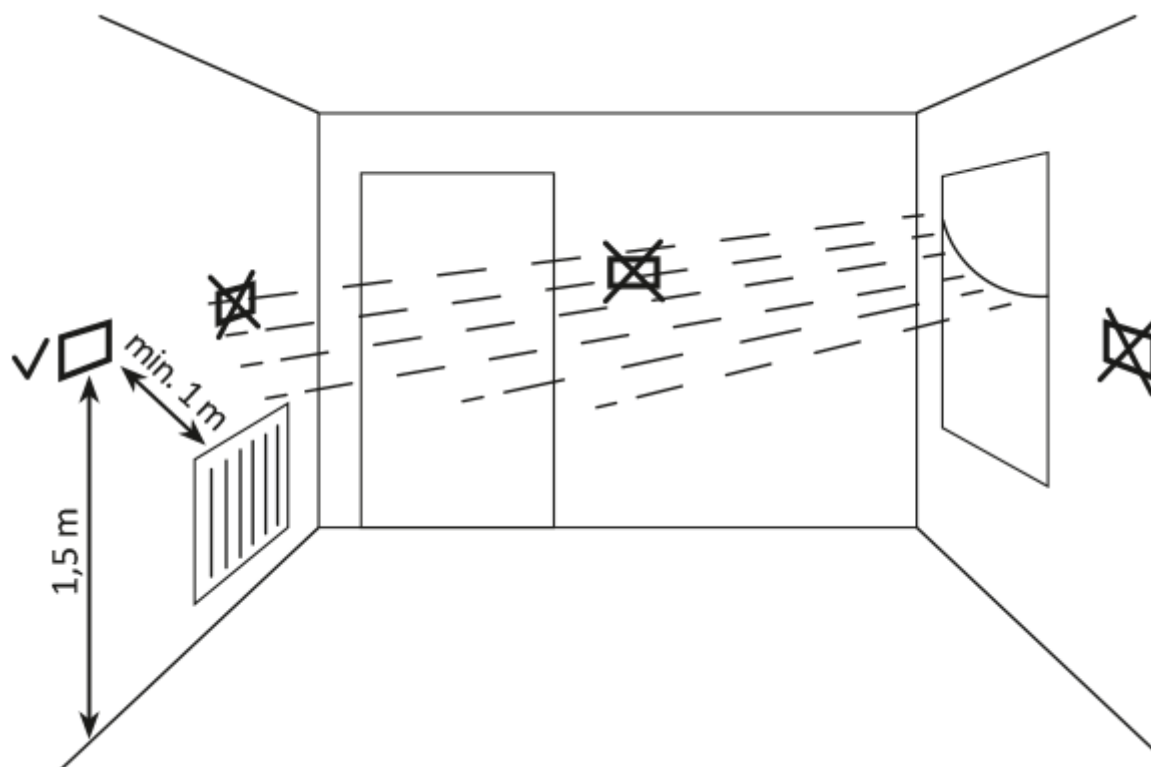
Wireless thermostat

1. Data transmission indicator LED.
2. Temperature setting knob.
3. Frost protection temperature setting (7 °C).
4. Temperature sensor.
5. Mounting bracket holes.
6. Pairing indicator LED.
7. Pairing button with the AURATON Fornax receiver.

The AURATON Aquila Mini R is equipped with a factory-installed lithium battery. The expected battery

life is up to 10 years.
NOTE: Battery is non-replaceable.

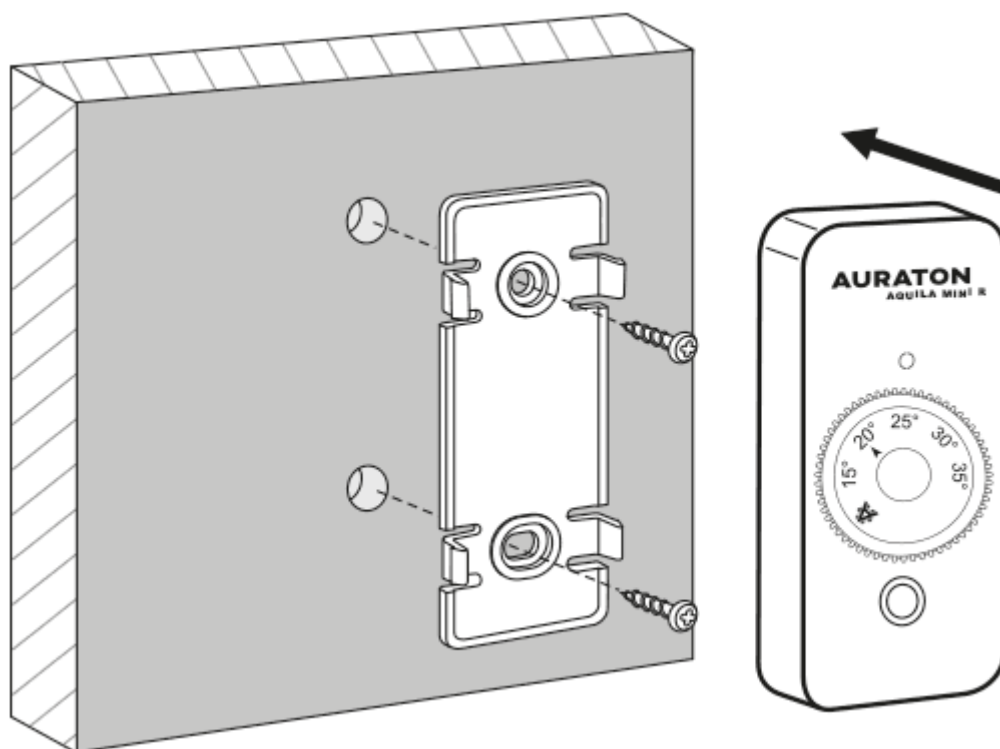## Choosing the right location for the AURATON Aquila Mini R

The correct operation of the AURATON Aquila Mini R is greatly influenced by its location. Placement in a place without air circulation or directly exposed to sunlight may result in incorrect temperature control. The AURATON Aquila Mini R should be installed on an internal wall of the building (partition wall), in an environment with free air circulation. Avoid proximity to devices emitting heat (television, radiator, refrigerator) or locations directly exposed to sunlight. Problems in proper operation may be caused by the vicinity of doors, exposing the AURATON Aquila Mini R to potential vibrations.

Mounting the thermostat to the wall

> **NOTE:**
> Before attaching the thermostat to the wall, it must first be paired with the previously connected receiver. If the thermostat and receiver are purchased together as a set, the pairing procedure is not necessary, as these devices have been paired at the factory.

To attach the AURATON Aquila Mini R to the wall:

1. Drill two 5 mm diameter holes in the wall *(measure the distance between the holes using the mounting bracket – included in the AURATON Aquila Mini R set)*
2. Insert wall plugs (included)
3. Screw the mounting bracket to the wall.
4. "Press" the AURATON Aquila Mini R thermostat onto the mounting bracket so that the holes on the back of the thermostat fit into the catches on the bracket.

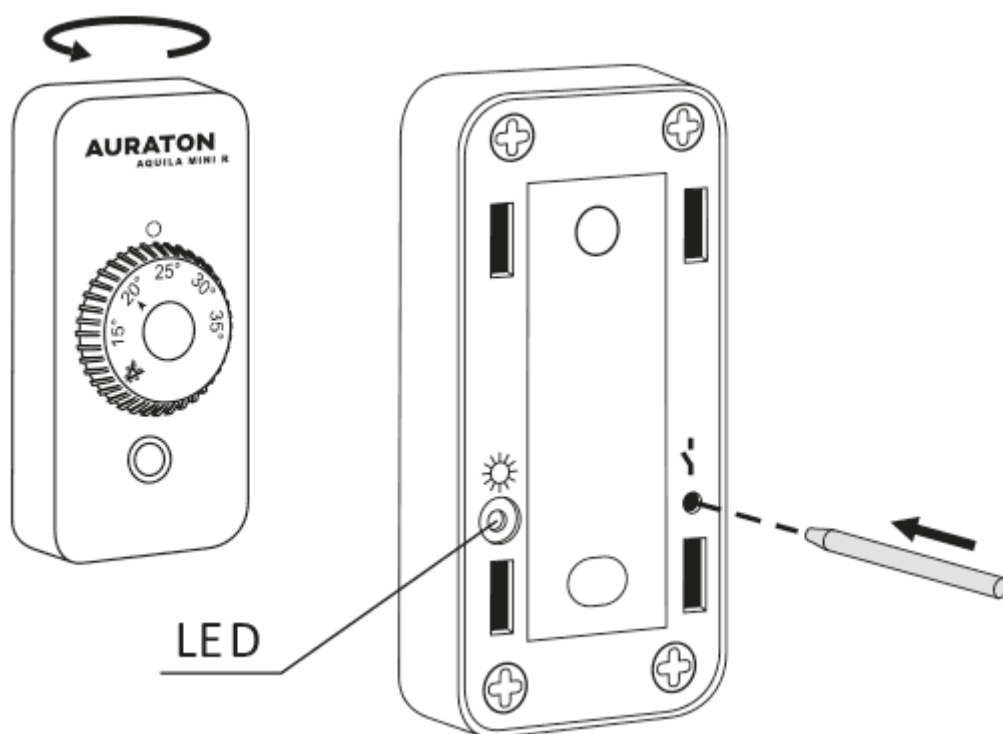# Starting and pairing the AURATON Aquila Mini R thermostat with the AURATON Fornax receiver

After connecting to the mains, switch on the receiver by briefly pressing the power button (⏻). If the device is turned on, the green power LED will light up and a single beep will be heard. To tuarn off AURATON Fornax, for example, outside the heating season, press and hold the power button for 3 seconds until a beep is heard and the green power LED goes out, thus turning off the heating device.

1. Pairing the AURATON Aquila Mini R (transmitter) with the AURATON Fornax is initiated by pressing the right pairing button (▽) – a single beep on the AURATON Fornax receiver and holding it for at least 3 seconds until the LED starts flashing green (double beep), then release the button.
The AURATON Fornax receiver waits 120 seconds for pairing. After this time, it will automatically return to normal operation.

2. On the AURATON Aquila Mini R thermostat, press the pairing button (↘) located on the back of the housing and hold it for at least 2 seconds until the LED (☼) starts flashing red. Release the button.

3. Successful pairing is indicated by the green LED on the AURATON Fornax receiver ceasing to flash, a single beep, and the receiver returning to normal operation.

In case of a pairing error, repeat steps 1 and 2. For subsequent errors, unpair the device by RESETTING the AURATON Fornax receiver, *see "RESET – Unpairing the device from the AURATON Fornax – wireless controller of the heating or air conditioning device (receiver)"* and try pairing the devices again.

NOTE:
The AURATON Fornax receiver can only be paired with one AURATON Aquila Mini R thermostat.

Unpairing the AURATON Aquila Mini R from the AURATON Fornax receiver

1. Unpairing the AURATON Aquila Mini R (transmitter) from the AURATON Fornax receiver is initiated by pressing the left unpairing button (△) on the receiver and holding it for at least 3 seconds until the LED starts flashing red, then release the button. The sound indication works in the same way as pairing, i.e., pressing the button is signaled by a short sound, and after 3 seconds there is a double short beep.
The AURATON Fornax receiver waits 120 seconds for device unpairing. After this time, it will automatically return to normal operation.

2. On the AURATON Aquila Mini R thermostat, press the pairing button (↘) located on the back of the housing and hold it for at least 2 seconds until the LED (☼) starts flashing red. Release the button.

3. Successful unpairing is indicated by the red LED on the AURATON Fornax receiver ceasing to flash, a single beep, and the receiver returning to normal operation.

In case of an unpairing error, repeat steps 1 and 2. For subsequent errors, unpair the paired device, *see "RESET – Unpairing the device paired to the AURATON Fornax heating device controller (receiver)"..*

RESET – Unpairing devices assigned to the receiver

To unpair a paired device (e.g., AURATON Aquila Mini R) from AURATON Fornax, simultaneously press and hold both the pairing and unpairing buttons (▽ i △) for at least 5 seconds until the LED indication changes to alternating flashing in green and red. Then release both buttons. Sound indication: pressing the button – a short signal – after 5 seconds a double short signal.
Successful device unpairing is indicated after about 2 seconds by a change of the indication to green, and then a brief extinguishing of the light.

NOTE:
If after the RESET, you disconnect the AURATON Fornax receiver from the power supply, and then reconnect the power supply, the receiver will automatically enter the "pairing" mode for 120 seconds. The AURATON Fornax receiver, which is newly purchased (not purchased in a set with AURATON Aquila Mini R) and does not have factory-paired devices, will behave identically.

Frost protection temperature

The AURATON Aquila Mini R thermostat is equipped with a setting ❄. This setting maintains **the frost protection temperature at 7 °C.** The frost protection temperature setting is used during a longer absence from the building and is intended to prevent water from freezing in the heating system.

Special situations

- If 3 consecutive transmissions are lost (after 15 minutes) from the AURATON Aquila Mini R (transmitter), a failure will be signaled on the AURATON Fornax receiver (continuous alternating flashing of the LED in red and green). Until the problem is resolved, the receiver will switch to the saved on/off cycle from the last 24 hours.
- When the signal from the AURATON Aquila Mini R returns, the error is cleared and the AURATON Fornax receiver returns to normal operation.
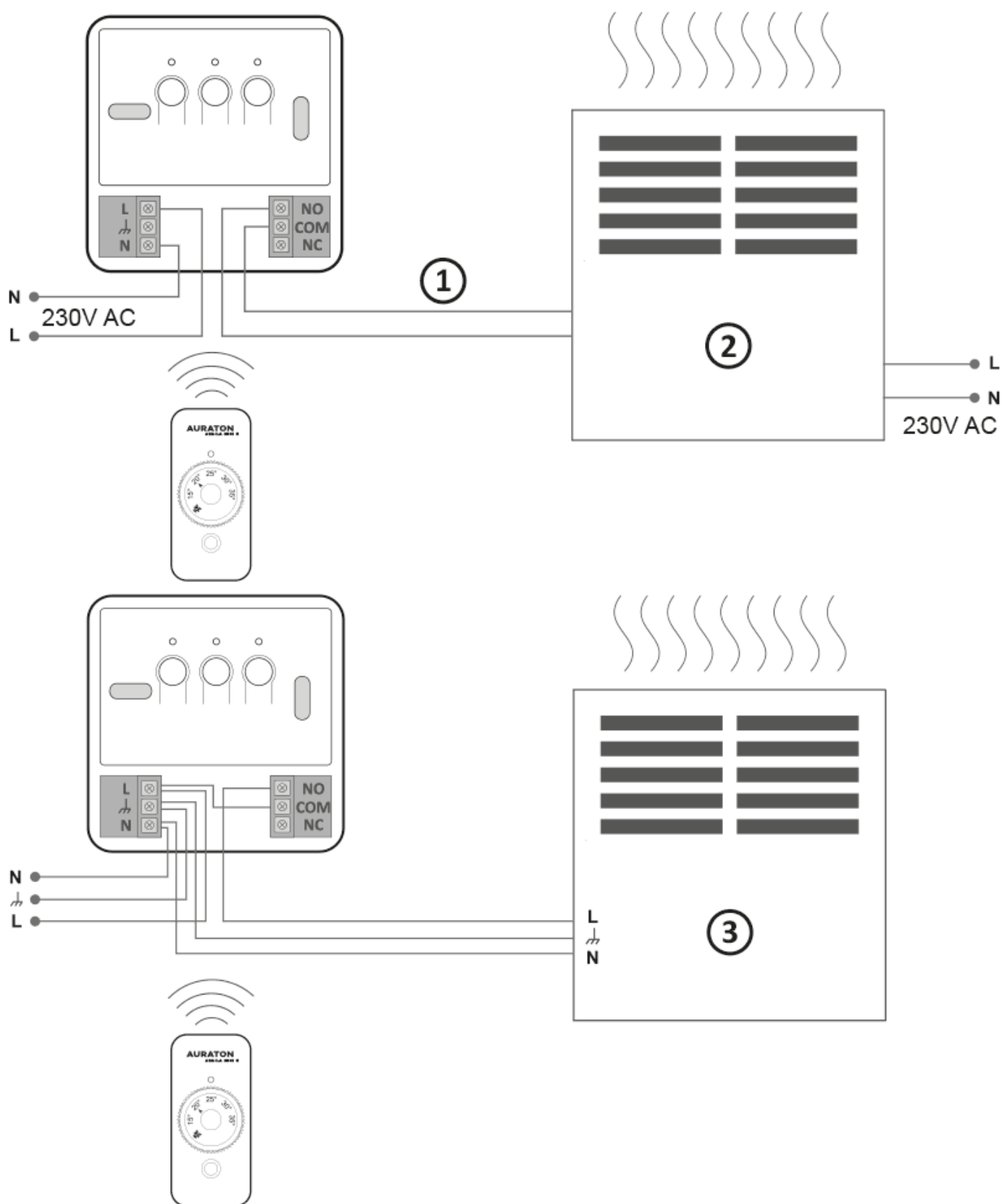
Unique features of the AURATON Aquila Mini R

- The built-in lithium battery ensures uninterrupted operation of the thermostat for up to 10 years.

Additional notes

- The AURATON Aquila Mini R (transmitter) must be installed at least 1 meter from the receiver (too strong a signal from the transmitter may cause interference).
- Data transmission from the AURATON Aquila Mini R (transmitter) to the AURATON Fornax receiver occurs with every change in ambient temperature of 0.2 °C. If the temperature does not change, the AURATON Aquila Mini R sends control data every 5 minutes (this is manifested by a temporary alternating change in the color of the LEDs).

AURATON Fornax connection diagram

1. Control
2. Heating device, *e.g., gas furnace*

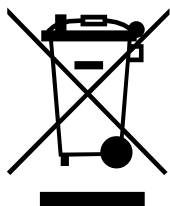3. Electric heating device (MAX 230 V AC, 16 A)

Cleaning and maintenance

- Clean the external part of the device with a dry cloth. Do not use solvents (such as benzene, thinner, or alcohol).
- Do not touch the device with wet hands. This 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:	lithium battery (factory installed). Battery non-replaceable.
Operating temperature range:	0 – 45 °C
Number of temperature levels:	1
Frost protection temperature:	7 °C
Temperature control range:	7 °C; 15 – 35 °C
Operating status indication:	LED
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 power	Up to 11 dBm
Degree of protection:	IP20
Dimensions [mm]:	75 x 35 x 14

Device disposal

The devices are marked with the symbol of a crossed-out waste container. According to the European Directive 2012/19/EU and the Act on Waste Electrical and Electronic Equipment, this marking informs that this equipment, after its period of use, cannot be placed together with other household waste. **The user is obliged to return it to a collection point for used electrical and electronic equipment.**

LARS Andrzej Szymański hereby declares that the radio device type AURATON Aquila Mini R complies with directives 2014/53/EU and 2011/65/EU. The full text of the EU declaration of conformity is available below in the download section.

Manufacturer's address and contact details:
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64-320 Niepruszewo
www.auraton.pl

Download

- [Operating manual](#)
- [Declaration of conformity AURATON Aquila Mini R](#)