

Quick installation guide for the VRC System

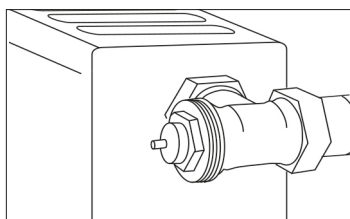
BERO is a modern system that allows remote control of room temperature using a mobile application or a web browser. It allows for independent temperature management in individual rooms and for checking the level of air humidity. Using the BERO system, you can control up to 20 rooms in which up to 50 thermostatic heads can be installed.



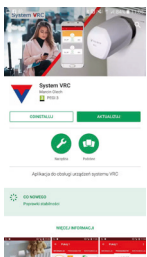
The BERO device is easy to install and user-friendly. It has a CE declaration of conformity. All connections between system elements are encrypted, which ensures safe use.

Step 1: Preparation

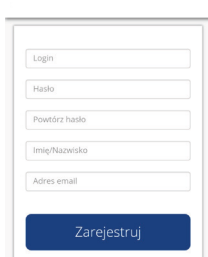
Make sure the head fits the valve of your radiator. It is best to take the head off the heater and check the valve type. The VRC System head is dedicated for mounting on valves with a thread for the M30 / 1.5 head. Prepare a paperclip to handle the temperature and humidity sensor.



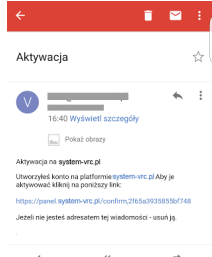
Step 2: Setting up an account in the system



1. Download the System VRC app for a smartphone with Android version above 4.1 from the Google Play store.



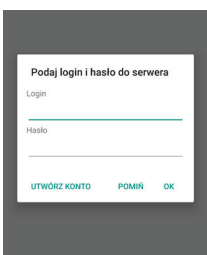
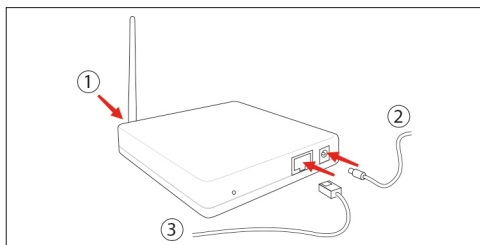
2. Register an account (provide login, password, first and last name, e-mail).



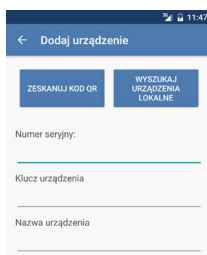
3. You will receive a registration confirmation by e-mail.

Step 3: Installation of the control panel in the system

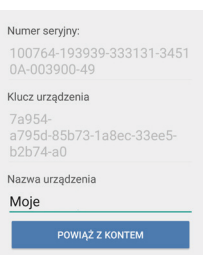
1. Screw the antenna to the control unit.
2. Connect the central to the power supply using the enclosed power supply.
3. Connect the central to the Internet, eg to a router - RJ-45 cable included.



4. Log in to the application VRC system on your smartphone.



5. Click "Add Device" and enter the serial number and key of your central.

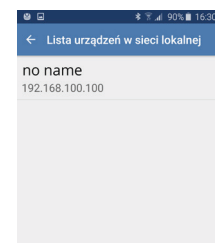


6. Name the device and confirm the entered data with the button "Associate with account".

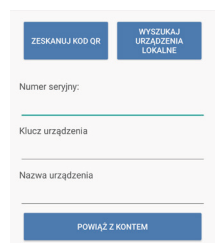
You can enter the serial number and key of your PBX in three ways:



Method 1:
Scan the QR code on the pairing card attached to your System VRC control unit.



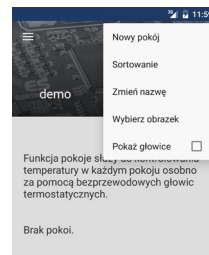
Method 2:
Click: "Search network devices". The device currently connected to your router will be displayed.



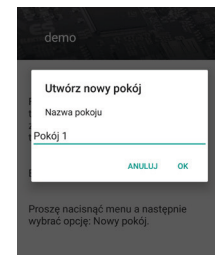
Method 3:
Enter the serial number and key found on the pairing card that comes with the System VRC control unit.

Now you can start configuring rooms and adding devices to the BERO central.

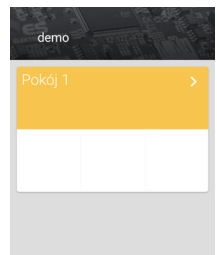
Step 4: Adding "room" in the app



1. From the menu on the right upper corner select "New Room".



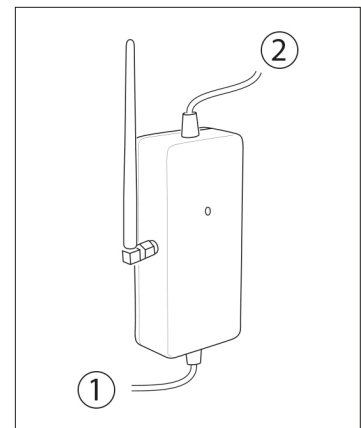
2. Name the room. After confirming, the newly created room will appear on the screen.



3. Click the name of the room to see the details and go to "Configuration".

Step 5: Installing the relay

In the VRC system, the signal to the heating device is transmitted via radio via a transmitter. The cable (1) should be connected to the ~ 230 V power supply, the cable (2) should be connected in the place of thermostat connection in the actuating device. The connection (2) of the relay to the actuating device should be made according to the manual of the actuating device. It is recommended to entrust the installation of the relay to a specialized installer. Note: the power supply to the device should be turned off during installation.

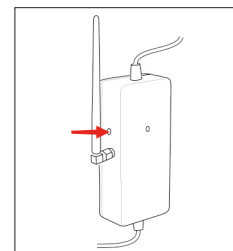


Step 6: Connecting the relay to the control unit



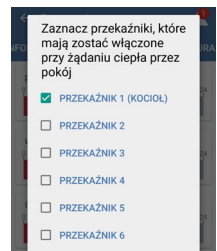
Piec nie podłączony

PODŁĄCZ PRZEKAŹNIK



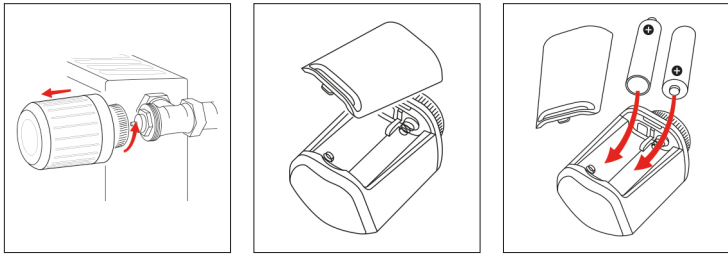
1. Select from the right upper menu, the "Heat source" tab. Click here "Connect the relay".

2. You have 30 seconds on pairing the relay: Press the button on the side of the housing with a previously prepared paper clip until the LED lights up with a steady green light. The relay has started working.

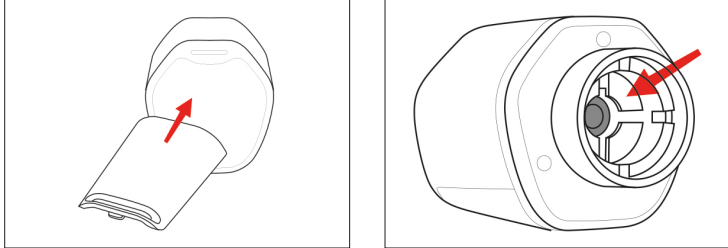


3. Go to the tab "Room configuration" and select "Relay configuration". Check the relays that are to be activated when there is a request for heat from the room. Confirm the settings with the "OK" button.

Step 7: Attach the head to the heater valve

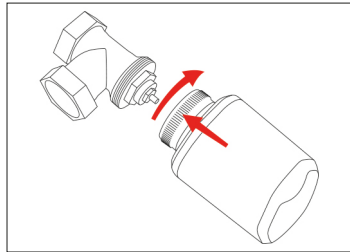


1. Remove the old thermal head from the heater and install a reduction if needed
2. Remove the battery cover from the "VRC System" head.
3. Insert two AA batteries

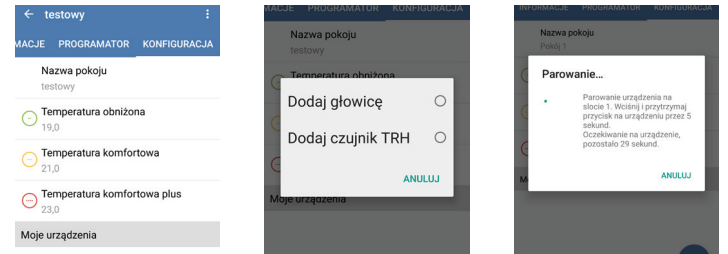


4. Place the battery cover close to the head face for 5 seconds until the LED shines with a solid white light.
5. Move the cover away from the head -the pin inside the head will retract as far as it will go.

6. Install the head onto the valve. After 60 seconds, the plunger will return to its initial position – if you want the pin to retract more quickly, imply apply the cover to the head for 1 second.– picture.

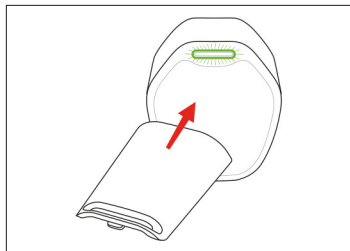


Step 8: Connecting the thermostatic head to the central unit



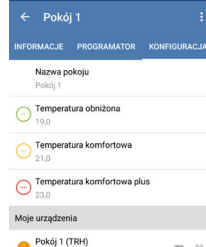
1. In the VRC application, go to the tab. "Room setup".
2. Select from the menu in the upper right corner "Add device" or click the "+" sign in the lower right corner. Select the "Add Head" option.
3. You have 30 seconds to pair the head. Move the cover close to the head and wait until the LED lights up green continuously.

4. The head is ready for operation. Replace the battery cover.

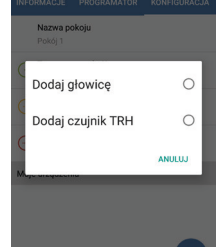


If you are installing more than one head in the room, repeat steps 7 through 8.

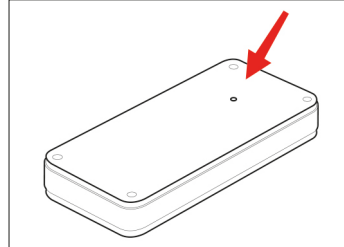
Step 9: Connect the temperature and humidity sensor



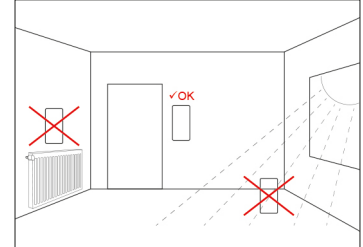
1. In the application, go to the "Room configuration" tab.



2. From the menu in the upper-right corner, select "Add Device" or click the "+" in the lower-right corner. Select Add TRH sensor



3. You have 30 seconds to pair the sensor: Remove the silicone cover from the sensor and press the button on the back with a previously prepared paper clip until the LED lights up with a steady green light. The sensor has started working.



4. Place the sensor in the room. Make sure it is away from heat sources and is not exposed to direct sunlight (it can distort the temperature reading).

Repeat step 9 for all rooms where you are installing VRC System sensors.

Technical parameters:

TRH sensor:

Power supply: CR2450 battery 3 VDC

Frequency: 869.85 MHz

Transmitter Power: < 5 dBm e.r.p.

Radio range: Up to 1 km in open space

Operating temperature: -20°C - +50°C (no condensation)

Temperature measuring range: -20°C - +50°C

Humidity measurement range: 0 - 100%

Protection class: IP 20

Head:

Power supply: 2 x 1.5 V alkaline battery - type AA

Frequency: 869.85 MHz

Transmitter power: <5 dBm e.r.p.

Radio range: up to 1 km in open space

Operating temperature: 5°C–40°C (non-condensing)

Protection class: IP 30

Relay:

Power supply: 230 VAC / 50 Hz

Frequency: 869.85 MHz

Transmitter power: <5 dBm e.r.p.

Radio range: up to 1 km in open space

Maximum contact current: ~ 1 A 250 VAC

Operating temperature: 5°C-45°C (without condensation)

Protection class: IP 20

VRC System control unit:

Power supply: 12 VDC

Max current consumption: 100 mA

Frequency: 869.85 MHz

Transmitter power: <5 dBm e.r.p.

Radio range: up to 1 km in open space

Ethernet Port 10/100 MBit

RGB signaling diode

Working temperature: 5°C–45°C (without condensation)

Protection degree: IP 20



If you have any questions, please contact us: