

ELECTRONIC THERMOSTAT WITH WiFi

--- **Model: ThermoB.R1.WiFi,v2** ---

OPERATING INSTRUCTIONS



COMPLIANCE

This product complies with European directives on electromagnetic compatibility 2004/108/EC, low-voltage equipment 2006/95/EEC, RoHS 2011/65/EU and marking 93/68/EEC.

SAFETY

These instructions apply only to the ThermoB.WiFi thermostat described and illustrated above.

Only a competent person (installer) may install this device, in accordance with local electrical and general safety standards, requirements and regulations. The installer is fully responsible for installation and connection to the rest of the system.

	Warning: risk of electric shock. Life-threatening voltage is present inside the receiver! Always disconnect this device and the appliance connected to it from their power supplies before opening the enclosure and while it is open, when working on external electrical connections, and during installation, removal or relocation. Keep the device away from children and/or people with limited sensory or cognitive abilities. Risk of electric shock! Installation must not be entrusted to anyone without the necessary qualifications.
	Hazardous environments Do not use the device in an explosive atmosphere. Do not use it near fuels or easily flammable materials. Do not use the device in areas where the air may become saturated with a conductive or explosive mixture, whether dust or gas.
	Protect the device from water and moisture. If you suspect incorrect operation, disconnect the device from the mains immediately. Also disconnect the appliance connected to it.

Keep these instructions for future reference.

OVERVIEW:

The Thermob.R1.WiFi electronic thermostat is a temperature control system.

It can serve as a standard heating/cooling thermostat for gas, electric, pellet and other systems. A wired connection is required between the controlled appliance and the room being controlled. The thermostat provides a convenient way to set the desired room temperature and monitor the control output.

The output can be controlled autonomously or remotely over the Internet using an Internet-connected computer or mobile device.

The ThermoB.WiFi module includes a remote temperature sensor, one relay output, two indicator lights and a button. The relay output controls the heating or cooling appliance. The two indicators show the output state and selected mode. The button selects the operating mode and/or output state. The relay output connects to the controlled appliance by wire. Power is supplied from the 230V/AC mains. The receiver has a plastic DIN rail housing for installation inside an enclosure. A separate button and indicator manage and display WiFi connectivity.

Warning! This device must be installed inside a protective enclosure; installation without one is not permitted.

MAIN FEATURES:

- Remote control and configuration over the Internet through a home WiFi network
- Easy to use
- Switched-voltage output; current up to 16A
- Convenient mounting
- Modes: Off, Economy temperature, Comfort temperature, Automatic (scheduled) and MAX

INSTALLATION

Before starting installation, read the safety instructions at the beginning of this guide.

Installing ThermoB.R1.WiFi

Install ThermoB.B1R1.WiFi where it can connect to the controlled appliance and a 230V/AC supply, while also ensuring good wireless Internet reception.

Mounting on the controlled appliance's metal housing is often unsuitable because it reduces radio and WiFi reception. The location must be protected from high temperatures, water, moisture, condensation, heavy dust and direct sunlight.



Important! All work must be performed by a competent person.

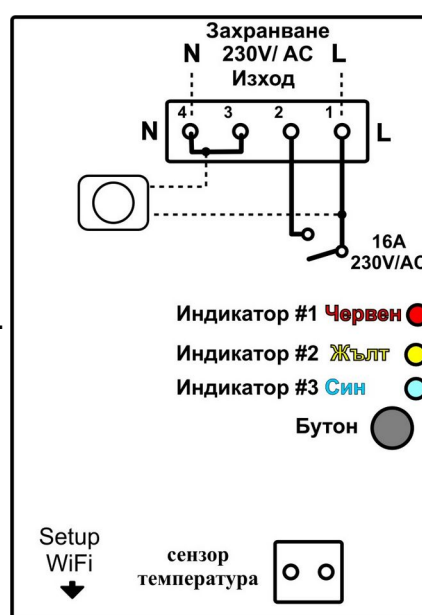
The receiver mounts on a DIN rail inside a protective enclosure (not supplied).

Provide a 230V/AC supply protected by a fuse rated at no more than 16A. Provide an electrical connection to the controlled appliance.

Secure the cables so that they cannot move at the receiver or place excessive strain on its terminals.

Receiver power supply (Diagram 1)

- Connect terminal #1 to the 230V AC/50Hz live conductor L through a fuse.
- Connect terminal #4 to supply neutral "N".
- Permitted conductor cross section: 2.5mm²
- Connect the load to terminals #2 and #3.
- Ensure the switched voltage does not exceed 230V AC and the current does not exceed 16A.





Warning! When connecting an electric water heater, retain all its protective components, including the thermostat and high-temperature cutout.

OPERATING THE DEVICE

The device has three indicators: red for relay state, yellow for RF connection and operating mode, and blue for WiFi connection.

Red indicator #1 shows the output state. When lit, the output's N.O. contact is active; when off, the N.O. contact is open.

Yellow indicator #2 shows the operating state and RF connection status.

Blue indicator #3 shows WiFi connectivity.

Blue indicator #3 shows Internet connectivity. It stays on when an Internet connection is present.

The possible indications are:

- **Manual mode:** the yellow indicator flashes steadily at approximately 1 sec intervals. The output is controlled manually. Each subsequent button press alternates its state: On... Off... On... Off...
 - **Automatic mode:** the yellow indicator stays on. The measured temperature and scheduled setpoints are monitored, and the output is controlled accordingly.
- Button:** changes the operating mode.
- **Single press:** selects Manual mode. Each subsequent press alternates the output state: On/Off/... On/Off...
 - **Hold for 5 seconds:** selects Automatic mode.



IMPORTANT!

Select Automatic mode for the WiFi-connected system to follow the user's individual temperature schedule.

Device operating modes:

(available through the online user panel)

1. **Manual.** Control the device output using its mode button or the on/off control in the online user panel.
2. **Off.** The output remains off regardless of temperature.
3. **Economy.** The device aims to maintain the set economy room temperature, switching the output on/off as needed, for example 21°C.
3. **Comfort.** The device aims to maintain the set comfort room temperature, switching the output on/off as needed, for example 24°C.
4. **Maximum.** The output remains on regardless of temperature.
5. **Automatic.** The current temperature setpoint is selected automatically by the weekly temperature schedule.

Temperature schedule:

The temperature schedule combines a time period with a selectable temperature or state (off, economy temperature, comfort temperature, max) to maintain during that period, separately for each day of the week.

The device provides 6 separate time periods and corresponding states for each day of the week.

Priority: two or more periods may overlap in a schedule. When the current day and time fall within an overlap, the highest-priority state determines the operating temperature.

Priority increases in the following order:

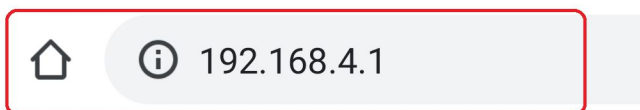
“Off” -> “Economy temperature” -> “Comfort temperature” -> “Maximum”

Connecting to home WiFi:

1. Download, install and open the Proxel Connect app.
2. Hold the WiFi button for 10 sec.
3. The blue WiFi indicator #3 starts flashing rapidly.
4. Connect to “Thermob-Setup” (turn off mobile data).
5. Open a browser and enter 192.168.4.1 in the address bar.

Or scan the QR code.

11:37 ч. ?



ThermoB WiFi Setup



Warning! Enter the numbers in the address bar, rather than the search bar!

6. Follow the setup page instructions: select your network from the list, enter its password and press "SAVE WiFi".

11:37 4. ?

192.168.4.1

ThermoB WiFi Setup

[\[RELOAD \]](#)

ThermoB-14745855
Status: **Idle**
Choose your WiFi>

Network: 1a

Password: 2

SAVE WiFi 3

If Conection OK ... Reboot!

DCE_M_MLAA

Reni (WEAK)

PR-330L-330 (WEAK)

MY WiFi 1

BNNPP

Thom_D005513 (WEAK)

BNPP0

[\[SCAN WiFi \]](#)

Forget WiFi !

Item 1. Select your home network from the list by pressing its button, for example "MY WIFI".

Item 1a: the selected network name appears here.

Item 2. Enter the network password, or leave the field blank if no password is required.

Item 3: tap SAVE WIFI.

- Wait for the message confirming successful completion.
or for an error message.

If an error occurs, repeat the procedure.

Registering an account

1. Open Proxel Connect or, on an Internet-connected device, open web.thermob.eu in a browser.
2. Create an account by pressing "REGISTER".



Login

Username or Email

Password

[Forgotten password?](#)





Register

E-mail

Password

Name

New password confirmation





3. Complete the username, password, name and email fields. Select “I'm not a robot” and press “REGISTER”.

4. After registering, enter your device's identifier and key through “Devices” -> “Add”.

(The device identifier is on the receiver label and looks like “123141134-123”, where “123141134” is the identifier and “123” is the key.)

You can add several devices to one account.

The ThermoB team wishes you a comfortable and cozy home!

Technical data

Receiver:	
- SELV power supply	230V / AC / 50Hz
- Power consumption	<2VA
- Switched-voltage output	16A / 230V AC
- Overall dimensions	72x50x127mm
- Measured temperature	-10° .. +85° in steps of 0.5°C
- Set temperature range	+12°C .. +35°C
General	
WiFi network, WEP/WPA-PSK/WPA2-PSK	2.4 GHz/802.11b/g/n
Contains TX FCC ID:2ADUIESP-127	
Ingress protection rating	IP20
Operating conditions	-5T45, RH80%
Transport and storage	-20T60, RH90%
Current time	Synchronization over the Internet

Mobile app.



Proxel Connect



This device:

- Identifier
- Key
- Serial number

QUICK REFERENCE:

Web link to the control panel: WEB.THERMOB.EU

Manual control

- On the receiver: press the button once (the yellow indicator should start flashing). Each press toggles the state between ON and OFF.

Automatic control

- On the receiver: hold the button for 5 sec (the yellow indicator should stay on).

Indicator meanings

Indicator	Behaviour	Description
Red (indicator #1)	On	Device output R1 is on
	Off	Device output R1 is off
Yellow (indicator #2)	Slow flashing (every 1 sec)	Manual mode selected
Blue (indicator #3)	Off, with occasional 1-second flashes	Connecting to the internet
	On	Connected to the internet

Selecting a WiFi network:

- Hold the receiver's WiFi button for at least 10 sec (the blue indicator should start flashing rapidly).
- Connect to the device by selecting "THERMOB-SETUP".
- Enter 192.168.4.1 in the browser's address bar.
- Follow the setup page instructions.

Ordering information

Base product code: R1.WiFi-DIN.

WiFi: yes, built in.

Housing: DIN rail housing; no room unit housing color selection.

Display: no user display; indicator lights are provided.

RF: Not applicable.