

EUROSTER 2006TXRXG

Wireless, programmable thermostat for all types of heating and air conditioning devices





MANUFACTURER: P.H.P.U. AS, Chumiętki 4, 63-840 Krobia, Poland

In order to take full advantage of thermostat capabilities please read this installation and operation manual carefully.

This manual is intended for the v8 01.2020 version of the thermostat

1. A DESCRIPTION OF THE DEVICE

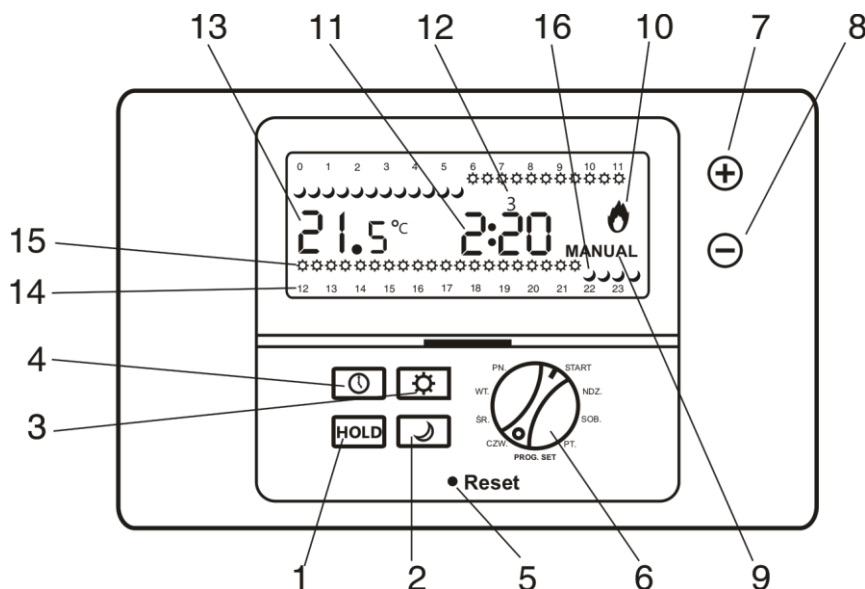
The Euroster 2006TXRXG wireless thermostat allows you to control the indoor temperature in a very simple and efficient way, without the need for labor-intensive wiring between the thermostat and the heating device.

It is used to control the operation of the CH boiler and other heating system components. It controls electrical equipment, floor heating, and air-conditioning systems. The thermostat operates with two temperature levels: comfort (day ) temperature and economical (night ) temperature. Each temperature is modifiable within the range of 5 °C...35 °C. The thermostat is programmable in seven-day cycles with an accuracy of 0.5 hour, therefore it enables 48 temperature changes in 24 hours. It is possible to program different time ranges for each day of the week.

2. BASIC FUNCTIONS OF THE THERMOSTAT

- Does not require leading cable connections between the thermostat and the controlled device
- User-friendly thermostat enabling easy control of temperature in living and utility rooms
- Bidirectional communication ensures high operational reliability and resistance to interference
- Up to 6 RXG receivers can be used
- Radio signal strength information,
- Legible, backlit LCD
- Two temperature levels: comfortable and economical (for the entire week)
- Temperature setting with the accuracy of 0.2 °C
- Programming ranges with 0.5-hour accuracy
- Numerous useful functions: temporary temperature setting, constant temperature, discharged batteries indication
- Temperature read-out accuracy of 0.1 °C
- Additional socket for connecting any network-powered device (up to 16 A)
- Temperature reading correction
- Surface mounting

3. THERMOSTAT VISIBLE ELEMENTS



BODY

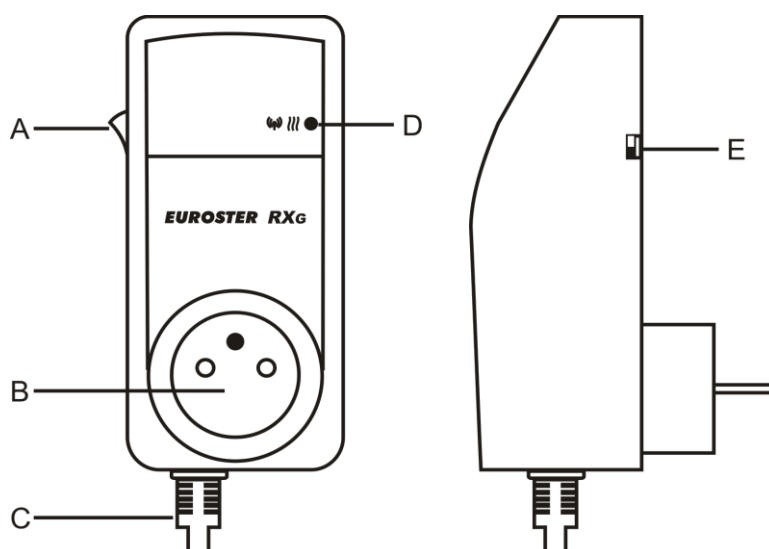
1. HOLD – use the button to switch the thermostat into the manual mode. The thermostat maintains the set temperature regardless of programmed settings. Press the HOLD button again to restore operation with programmed settings.
2. ☾ Economical temperature — Press the button to display the current economical temperature.
3. ⚙ Comfort temperature — Press the button to display the current comfort temperature.
4. Setting the clock.
5. Restarting the thermostat.
6. A knob used to select weekdays when programming a thermostat.
7. 8. Multi-purpose setting buttons: ⊕ increase, ⊖ decrease.

DISPLAY

9. Temporary temperature change — MANUAL sign is displayed to indicate that the temperature has been changed manually by means of setting buttons.
10. An icon indicating the activation and operation of the controlled device.
11. Indication of the current time.
12. Current weekday, with 1 for Monday and 7 for Sunday, here: Wednesday.
13. Indication of the current temperature.
14. Indication of time in 24-hour mode.
15. ⚙ icon above or under the indication of time determines the period of thermostat operation with the comfort temperature setting.
16. ☾ icon above or under the indication of time determines the period of thermostat operation with the economical temperature setting.

4. RXG RECEIVER VISIBLE ELEMENTS

- A. On/off switch for continuous operation of the heating device
- B. Power converter socket
- C. Output cable
- D. Two-color LED
- E. Button used to pair and change settings.



5. INSTALLATION

SAFETY RULES

CAUTION!

- Prior to the commencement of any installation works read this manual carefully! Incorrect installation and improper use may lead to serious hazards to users or other persons and result in property damage!
- Prior to mounting or dismantling the set make sure that the heating/cooling system is de-energized!
- Voltages hazardous to life may be present on receiver output cables (power supply phase voltage), therefore only qualified technicians may install the thermostat!
- The electric connections performed and cables used shall be adequate to the applied loads and must conform to all requirements!
- Do not install the set in rooms with increased humidity; protect it against water and other liquids!
- Do not install any unit showing signs of mechanical damage!
- The thermostat is not a safety component. Additional protection devices must be used in systems prone to the risk of damage due to the failure of control systems!
- The device is not intended for use by children!
- Should there be any problem with the proper operation of the thermostat, please contact your technician or the manufacturer!

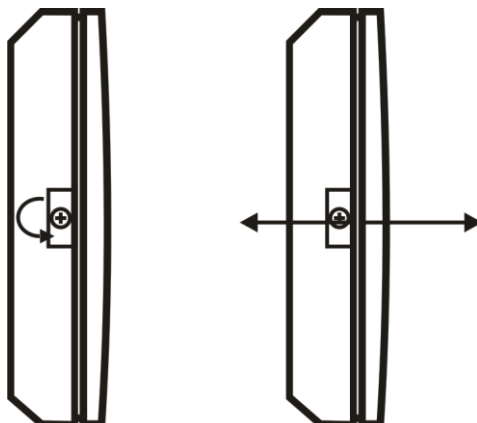
PROPER PLACE OF INSTALLATION

The thermostat is designed for indoor installation. No cables are connected to the thermostat, thus it can be placed anywhere. To ensure fully efficient operation of the thermostat, please make sure that the following recommendations regarding the location of the thermostat are observed:

- Locate the thermostat at the height of approximately 1.5 m above the floor
- Avoid places with strong sunlight, near heating or cooling devices, situated directly by doors, windows, and other similar locations, where the temperature measurement could be easily disturbed by external conditions.
- Avoid places with poor air circulation, e.g. behind furniture.
- Avoid moist places due to the negative effect of moisture on the service life of the device.

OPENING THE THERMOSTAT

Using a cross-head screwdriver to loosen the housing locking screw. Separate the panel from the base, while being cautious about the hinges on the right-hand side of the controller.



SELECTION OF THE THERMOSTAT OPERATING MODE

J4 – selects heating or cooling mode	Jumper position	
	 J4 COOLING COOL	 J4 HEATING HEAT

J1 – selects the temperature sensor: floor or air. This function is only active if jumper J4 is set to heat.	Jumper position	
	 J1 FLOOR FLOOR The thermostat is controlled by a signal from the floor sensor.	 J1 AIR ROOM The thermostat is controlled by a signal from the air sensor.







INSERTION AND REPLACEMENT OF BATTERIES



Place the batteries in the thermostat while observing the correct polarity. There are installation markings in the battery compartment. Then install (snap) the thermostat onto the base. The battery indicator will be visible when the battery voltage reaches the minimum allowable level. It is recommended to replace the batteries with new alkaline batteries before each heating season. Reprogram the controller if necessary.

NOTE! Use only alkaline AA batteries to power the thermostat. Do not use rechargeable batteries because their voltage is lower and their effective time is shorter.

6. THERMOSTAT SETTINGS







SETTING THE CLOCK



- Turn the knob to the START position.
- To change the time, press .
- Press  or  to select the day of the week.
- To set the time, press  button again.
- Press  or  to set the correct time.

- f) Repeat the sequence  and  to set the minutes.
- g) After five seconds, the set-point is stored and the device resumes operation.





MODIFYING TEMPERATURE LEVELS – comfort and economical

The temperatures programmed under  and  symbols are valid for all days of the week.

- a) Turn the knob to the START position.
- b) To enable the change of comfort temperature set-point, press  button.
To enable the change of economical temperature set-point, press  button.
- c) Having pressed  or  button again, the displayed set-point value starts flashing.
- d) Use  and  buttons to set the desired temperature.
- e) After five seconds, the set-point is stored and the device resumes operation.

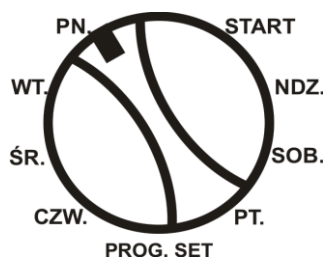
 and  buttons are not active when the temporary temperature set-point (MANUAL) is active. Press HOLD twice to unlock them.




ADJUSTING THE HYSTERESIS (ON/OFF DIFFERENCE)

- a) Turn the knob to the START position.
- b) Simultaneously press  and  buttons and hold them for 3 seconds.
- c) While observing the display, use  or  button to set the desired hysteresis of 0.4 °C or 1 °C.
- d) After five seconds, the set-point is stored and the device resumes operation.

CORRECTING THE DISPLAYED TEMPERATURE

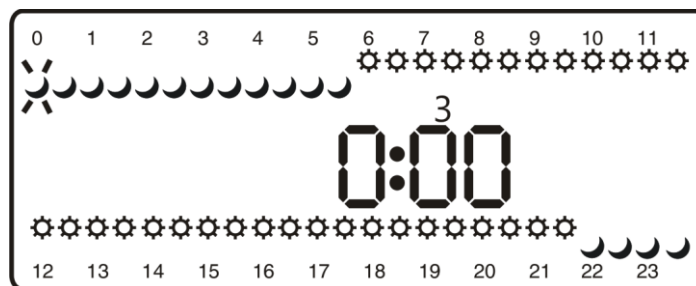
- a) Turn the knob to the "PN" position.













- b) Simultaneously press HOLD and  buttons and hold them for 3 seconds.
- c) While observing the display, use  or  buttons to adjust the temperature display correction, from -2 °C to +2 °C with the step of change of 0.2 °C.
- d) After five seconds, the set-point is stored and the machine resumes operation.

SETTING PROGRAMS FOR INDIVIDUAL DAYS OF THE WEEK


- a) Turn the knob to the day of the week you want to program (Wednesday is selected in the example shown in the figure).
- b) The display will take the appearance as shown in the figure below:



- c) Select the appropriate period using  or  buttons. The period and flashing  or  symbol will be displayed to facilitate the selection.
- d) To change the temperature from  to  press  or  button respectively. Whenever you press  or  button the temperature is programmed with the 0.5-hour-long period.



- e) IMPORTANT NOTE! Having programmed all 7 days of the week, turn the knob back to the start position. The thermostat will automatically start the set program

RESETTING TO FACTORY SETTINGS

- Press HOLD and  buttons simultaneously and while holding them down press the RESET button.
- Release all buttons.
- Press the HOLD button twice and RESET again.



Factory settings



Factory programmed temperatures:

Heating mode  20.4°C  16.2°C

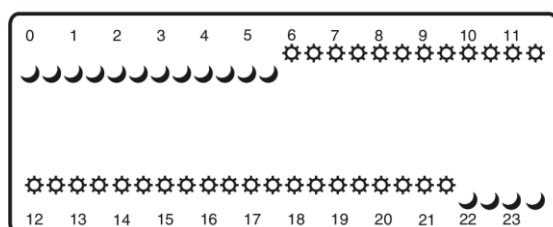
Air conditioning mode  22.0°C  25°C

Pre-programmed time periods:

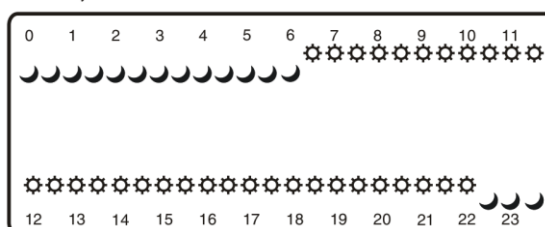
Monday – Friday  6.00 a.m. to 10.00 p.m.  from 10.00 p.m. to 6.00 a.m.

Saturday – Sunday  from 6.30 a.m. to 10:30 p.m.  from 10.30 p.m. to 6.30 a.m.



PN-PT



SOB, NDZ



SWITCHING OFF THE PROGRAM (WORKING WITH CONSTANT SETTING)/ HOLD









- Turn the knob to the START position.
- To switch off the program and set the operating temperature to a constant setting, press the HOLD button. The display shows "Temp set" (temperature setting) and "Hold" (program switched off).
- Use  and  buttons to set the desired temperature.
- The display will flash for approximately 8 seconds after the selected temperature is set and then show the current ambient temperature. The thermostat starts operating in a constant setpoint mode. From this point on, the thermostat maintains a constant user-set temperature regardless of the programs.
- To return to operation with the program press the HOLD button.

5°C FROST PROTECTION

- Turn the knob to the START position.
- Press the HOLD button and hold it for 5 seconds. The letters "A-F" appear on the display.
- The frost protection function has been activated. Regardless of the moment of its activation, the function is active until 0.00 on Monday.
- To switch off the frost protection function and restore the program, press HOLD again.

TEMPORARY CHANGE OF (MANUAL) TEMPERATURE

Allows you to change the temperature temporarily without modifying the stored programs. When the comfort to economy temperature or vice versa is next changed, the thermostat automatically returns to the stored program.

- Turn the knob to the START position.
- Press  or  button to call up the current  or  temperature set point.
- Use  and  buttons to set the desired temperature.
- The display will flash for approximately 8 seconds after the selected temperature is set and then return to the main display screen. The thermostat will start operation with the temporary change of temperature. During the operation with the temporary change of temperature, in the corresponding period, the  or  symbols disappear from the main display screen, and the "MANUAL" inscription appears.
- To restore the program, turn the knob in either direction and return to the START position.

CONNECTING FLOOR SENSOR

- Check if the J1 jumper is in the floor position (point 4.4.)
- Connect the floor sensor to terminals 4 and 5 of the thermostat.
- Reset the thermostat.
- The thermostat operates according to the floor sensor temperature read-out. The temperature control range increases to 45°C. The standard temperature sensor is inactive.

7. RXG RECEIVER SETTINGS

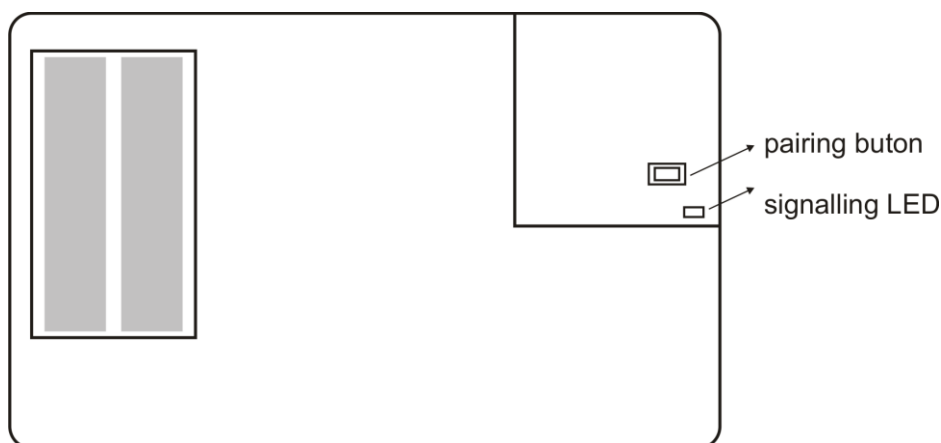
ESTABLISHING CONNECTION BETWEEN 2006TX THERMOSTAT AND RXG RECEIVER OR RECEIVERS (PAIRING)

Each thermostat and each receiver has a unique number that distinguishes it from others. It is not possible for any thermostat not paired with the particular receiver to interfere with the operation of another pair or set.

The thermostat may be paired with other receivers at any time. A blackout, battery replacement as well as a complete reset of all thermostat settings do not affect the pairing of devices in any way.

Pairing procedure:

- Press the RESET button on the thermostat (under the front flap)
- Remove the thermostat cover
- Press the button on the transmitter board three times, the LED starts flashing in red and green alternately



- Insert the RX receiver into the mains socket
- Press the pairing button (E) on the receiver 3 times – the blue LED lights up
- When the connection is established, the blue LED on the receiver goes out
- If you use only one receiver, press the button on the transmitter board, the light goes out. The pairing mode is ended.

If you are going to pair multiple receivers (maximum 6), proceed as follows:

- When the first receiver is detected
- Insert the second receiver into a mains socket
- Press the button on the receiver 3 times – the blue LED lights up
- When the receiver is detected, the blue led goes out
- Proceed similarly with the connection of the subsequent receivers, then press the button on the transmitter board. The pairing mode is ended.

Caution! Pairing mode is only available for 10 minutes after connecting the receiver to the mains and resetting or installing batteries in the thermostat! Factory-established thermostat–receiver pairs are paired, however, pairing may be repeated if necessary.

SELECTING OPERATING MODE

Press and hold the pairing button (E) on the receiver for approximately 5 seconds. Depending on the mode set, the green or red LED lights up. Each time the button is pressed, the operating mode changes. When you select the mode, the receiver restores operation.

Green – normally open mode (COM – NO). It is the mainly used operation mode. While the device operation indicator is active, the output cables are shorted.

Red – normally closed mode (COM – NC). While the device operation indicator is active, the output cables are opened.

Caution! The factory default setting is (COM-NO).

The operating mode can be selected for 10 minutes after the receiver has been connected to the mains!

8. FIRST START

When inserted into the mains socket, the receiver indicates the relay operating mode. A flash of green LED – normally open mode (COM-NO), a flash of red – normally closed mode (COM-NC).

Any change in the status of the thermostat (switching the heating on/off) is made immediately by the receiver, while the confirmation that the radio signal is received from the transmitter is repeated every 15 minutes.

RADIO SIGNAL STRENGTH

The radio signal strength is indicated together with the reception of the transmitter signal. Radio signal reception is indicated in green. LED flashing three times stands for a very strong range, twice for a strong range, and once for sufficient range.

NO RADIO COMMUNICATION

If the communication between the thermostat and the receiver is interrupted (e.g. discharged batteries) and if this condition lasts for 60 minutes (no response from the receiver), the receiver switches to the frost protection mode. The heating device will be switched on every 3 hours for 20 minutes to prevent the rooms from being cooled down. At the time of re-establishing communication (e.g. replacement of batteries), the receiver will automatically switch the system off and resume operation.

If there is no radio communication, the green LED flashes rapidly.

CONTINUOUS OPERATION OF HEATING DEVICE (MAN)

In the event of system failure, it is possible to manually switch on the heating. Move the switch on the RX receiver to the MAN position. Such status is indicated by a rapid flashing of the red LED.

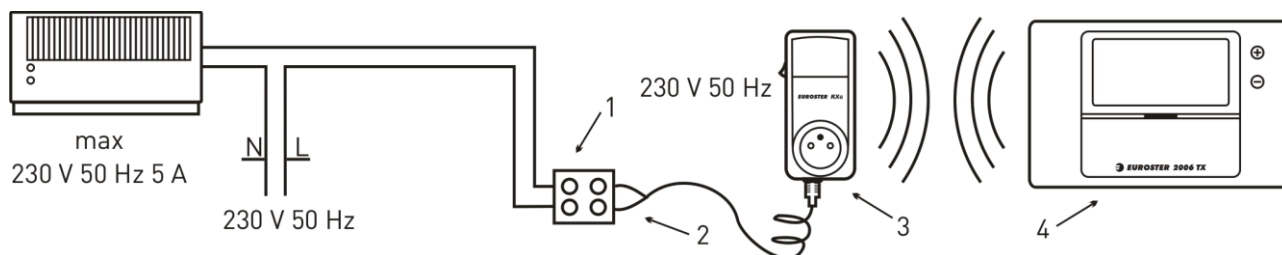
RECEIVER SIGNALING TABLE.

Function	Signaling
Pairing	Blue
Reception of radio signal	Green
No radio communication	Green – flashing
The heating/air-conditioning device is switched on	Red
Manual mode	Red – flashing

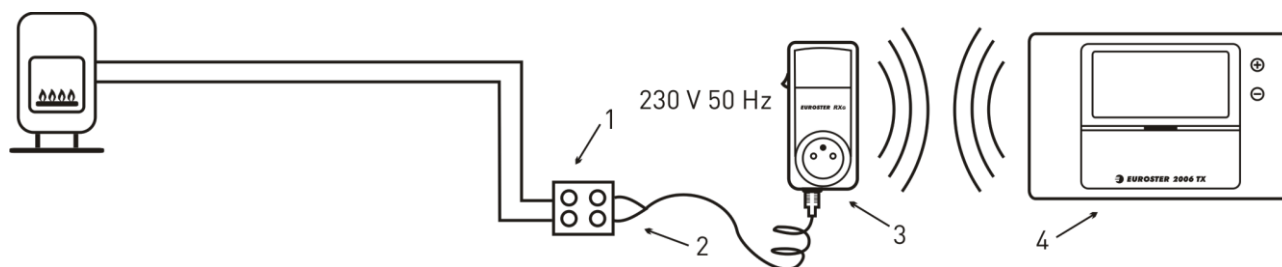
9. SAMPLE CONNECTION DIAGRAMS

The following diagrams are simplified and do not cover all elements necessary for the correct installation.

In arrangement with a 230 V 50 Hz device



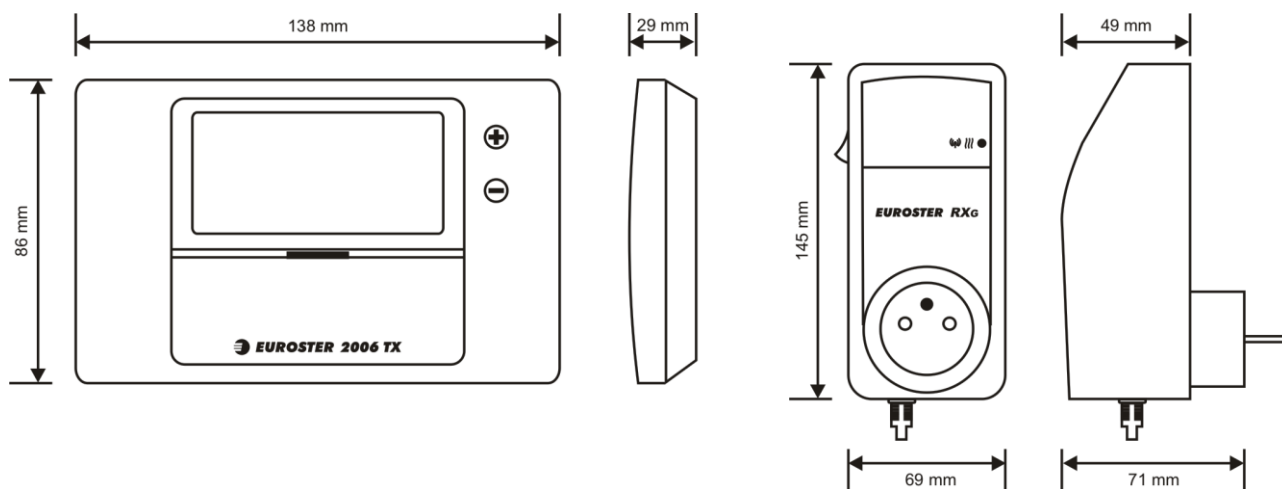
In arrangement with a gas boiler



MAINTENANCE

Do not use solvents and aggressive detergents to clean the thermostat, since they may damage the surface of the housing and the display. Clean the thermostat housing with a soft cloth.

10. DIMENSIONS



11. TECHNICAL DATA

Controlled device	heating/air conditioning systems
Supply voltage	3 V (2 pieces of alkaline AA batteries) receiver – 230 V 50 Hz
Thermostat output	relay, voltage-free type, SPST
Maximum load	5 A 230 V 50 Hz
Temperature measurement range	0 °C...+50 °C
Temperature adjustment range	+5 °C...+35 °C 5 °C to +45 °C in floor sensor mode
Temperature adjustment accuracy	0.2 °C
Temperature reading accuracy	0.1 °C
Hysteresis range	0.4 °C or 1 °C
Visual signalization	backlit LCD
Operation temperature	+5 °C...+40 °C
Storage temperature	-10 °C...+45 °C
Ingress protection rating	IP 20
Color	white
Mounting method	thermostat – stand receiver – 230 V 50 Hz socket
Weight	Thermostat without batteries – 160 g receiver – 340 g
Warranty period	2 years
Length of the receiver output cable	2 m
The operating frequency of the set	868 MHz
Maximum power of transmission of the thermostat and receiver	< 25 mW
Thermostat class:	I
Thermostat contribution to the seasonal energy efficiency of room heating	1 %

12. KIT CONTENTS

- a) Euroster 2006TX thermostat
- b) Euroster RXG receiver
- c) 2 pieces of alkaline AA batteries
- d) thermostat stand
- e) Installation and Operation Manual with Warranty Certificate

SIMPLIFIED DECLARATION OF CONFORMITY

P.H.P.U. AS AGNIESZKA SZYMAŃSKA-KACZYŃSKA hereby declares that the type of EUROSTER 2006TXRXG equipment conforms to the following directives: 2014/35/EU (LVD), 2014/30/EU (EMC), 2014/53/EU (RED), 2011/65/EU (RoHS).

The complete text of the Declaration of EU conformity is available at the following Internet address: www.euroster.pl

ELECTRONIC WASTE MANAGEMENT INFORMATION



This product is designed and manufactured from high-quality materials and components suitable for reuse.

The crossed-out wheeled bin symbol located on the product (Fig. 1) means that the product is subject to selective collection in accordance with the provisions of the Directive 2012/19/EU of the European Parliament and of the Council.

The product contains batteries, which are marked with a crossed-out wheeled bin symbol (Fig. 1). The batteries are subject to selective collection in accordance with the provisions of the Directive 2006/66/EC of the European Parliament and of the Council.

Such marking informs that the electrical and electronic equipment, as well as batteries and accumulators, may not be disposed of together with other household waste after their service life has ended. The user is obliged to take the used devices and batteries or accumulators to a point of collection of waste electrical and electronic equipment and batteries and accumulators. The entities collecting such equipment, including the local collection points, shops, and municipal entities, set up an appropriate system enabling handover of such equipment and batteries and accumulators. The proper disposal of waste equipment, batteries, and accumulators contributes to the prevention of consequences hazardous to the health of persons and nature, resulting from the possible presence of hazardous components in the equipment and batteries and inaccurate storage and processing of such equipment and batteries.

Households play an important role in contributing to reuse and recovery, including recycling, of waste equipment. The attitudes influencing protection of the common good of a clean environment are shaped at this level. Households are also one of the larger users of small equipment and its rational management at this level impacts the recovery of recyclables. Inaccurate disposal of this product may be penalized in accordance with national legislation.

WARRANTY CERTIFICATE

EUROSTER 2006TXRXG thermostat

Warranty terms:

1. The warranty is valid for 24 months from the device sale date.
2. The claimed thermostat together with this warranty certificate must be supplied to the seller.
3. Warranty claims shall be processed within 14 business days from the date the manufacturer has received the claimed device.
4. The device may be repaired exclusively by the manufacturer or by other party clearly authorized by the manufacturer.
5. Warranty becomes void in case of any mechanical damage, incorrect operation and repairs made by unauthorized persons.
6. This consumer warranty does not exclude, restrict nor suspend any right of the Buyer ensuing if the product would not meet any of the sale contract terms.

.....
Sale date

serial number
date of manufacture

Stamp
and signature

Service:
Phone No. 65-57-12-012

Business entity that issued this warranty certificate is:

P.H.P.U. AS Agnieszka Szymańska-Kaczyńska, Chumiętki 4, 63-840 Krobia, Poland