EUROSTER Q8TXRX

Wireless, programmable thermostat designed to control the operation of fan heaters and fan coil units.

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

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

Manual version: 03.04.2017

THERMOSTAT APPLICATION

Euroster Q8TXRX is a state-of-the-art, wireless thermostat designed to control temperature in living and utility rooms. It is used to control the operation of fan heaters and fan coil units. It controls the operation of a fan as well as heating and cooling valve.
Fan control is executed by automatic change of speed (by means of 0...10 V signal) depending on the difference between the current and preset temperature.

BASIC THERMOSTAT FUNCTIONS

- Stepless control of fan rotation speed (proportional control by 0...10 V analogue output)
- Control of a heating and cooling valve actuator
- Bidirectional radio communication ensures high operational reliability and resistance to interference
- Precise information on radio signal level facilitates determining the maximum range
- Intuitive temperature setting with a knob
- 9 time ranges per day with selectable temperature values — up to 63 settings per week
- Simultaneous display of current and required temperature values
- Heating in advance — turning the heating on in advance in order to obtain the preset temperature at the required time
- Automatic switch-on of air conditioning, if required
- Additional control input — possibility to decrease the preset temperature
- Complete or partial interlock of the thermostat with a selectable 4-digit PIN code
- Backup of settings and transmission parameters in the case of loss of power to the receiver

- A wide range of useful functions: automatic switch to summer and winter season, manual operation, turning the heating off after the heating season is over, air circulation function

I. GENERAL MAINTENANCE AND SAFETY RULES

ATTENTION!

- **It is necessary to read this user manual prior to the commencement of the installation works. Incorrect installation and improper use may lead to a serious hazard to a user or other persons and result in material damage!**
- **Dangerous voltages, hazardous to life, may be present on the RX receiver connections, therefore only qualified technicians holding authorization for electrical works may be entrusted with the installation of device!**
- **The performed electric connections and cables used shall be adequate to the applied loads and must conform to all requirements.**
- **Do not install the unit in rooms of increased humidity, substantial dustiness or with presence of caustic or flammable vapors. Protect it against water and other liquids!**
- **Do not install any unit showing signs of mechanical damage!**
- **The thermostat is not a safety component of the heating system. Additional protection devices must be used in the heating systems prone to the risk of damage due to failure of the control systems!**
- **Do not misuse the thermostat!**
- **The device is not intended for use by children!**
- **Failure to meet the safety and maintenance rules results in loss of warranty!**
- **In case any problems occur with proper operation of the thermostat, please contact your technician or the manufacturer.**

PROPER PLACE OF INSTALLATION

Place the thermostat on the stand included in the kit or mount it on a wall. No cables are connected to the thermostat, thus it can be placed anywhere. In order 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 inside a room, 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 device.

THERMOSTAT 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. Do not lubricate, grease or apply any other preservatives. Protect against freezing temperatures. Movable elements should operate easily and do not need any force to be applied on them under any circumstances. Please remember to change the batteries, since leakage of the electrolyte may cause an irreversible damage to the thermostat.

BATTERIES

Low batteries indication .

If the icon appears on the display, it is necessary to replace the batteries.
It is recommended to replace the batteries with new ones prior to each heating season.
Use alkaline batteries only.
Do not use rechargeable batteries because their voltage is 1.2 V, which does not ensure the proper operation of the thermostat.

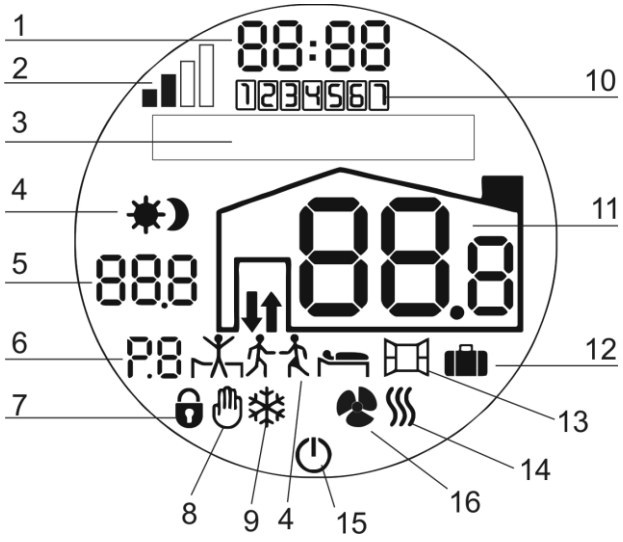
Replacement of batteries

The battery compartment cover is on the bottom of the thermostat.
Secure the cover with your hand not to let the batteries fall out when pulling out the cover. Pull the cover to the right.
When replacing the batteries, pay particular attention to their polarity. There are markings for proper installation in the battery compartment.

II. USER FUNCTIONS

1. CONTROL OF THE THERMOSTAT

Display icons and operating window



1. Hour
2. Strength of radio communication between the thermostat and the receiver
3. Text box
4. Current setting (range) icon
5. Preset temperature of the current range or after entering the menu — item No.
6. Range No. (e.g. P1 — first range of the current day (moment) is effective)
7. Lock of access to the thermostat functions
8. Manual (one-off) temperature or operating mode setting
9. Air conditioner in operation
10. Current weekday, e.g. 1 — Monday, 7 — Sunday
11. Current room temperature

12. Vacation mode
13. Airing mode
14. Heat emitting device in operation
15. Thermostat switched off — temperature control suspended indefinitely
16. Fan operation icon

Standard appearance of the operating window:

Icon of the radio communication strength — the range of device operation

The range icon informs of a proper communication between the thermostat and the receiver and of the strength of the signal between them. If at least one unit of the signal icon is full, then the communication is proper.
The signal is sent to the receiver in the following cases only:

- When the change in the thermostat operating conditions occurs, e.g. the temperature raises or drops, when OK button is pressed, or when the thermostat requests turning the device on or off, etc.
- After 10 minutes since the last activity

Maximum range inside buildings is 20 m. However, the radio communication depends on many factors (ceilings, thick walls, metal structural elements), which may reduce the distance.
Empty units of the signal icon indicate lack of communication. If the signal fades out permanently, then LACK OF COMMUNICATION appears in the text box. In such case, moving the thermostat elsewhere may help. The range icon will be updated not later than after 10 minutes or after pressing OK shortly, when the display backlight is switched off.
If the thermostat cooperates with several receivers, then the displayed signal strength is the signal strength of the most distant thermostat (the thermostat with the weakest signal).
When there is no communication in one of the receivers, then the units of the signal strength icon will be empty but the thermostat and other receivers will operate properly. The lack of communication information will appear only when the signal fades out in all of the receivers.

Text box

Displays the names of the menu elements and messages particularly important for the operation of the thermostat.

Device operation icon

There is a bidirectional communication between the thermostat and the receiver.
When the fan is operating, the fan icon and the current speed rate (in %) of the fan is displayed.

Knob and button

Pressing the OK button for a short time backlights the display and unlocks the knob, holding it pressed for longer time (over 1 s) results in:

- Entering the main menu (release the button when SETTINGS is displayed)
- Deleting manual setting
- Switching active modes off or exiting the menu item, and after holding the OK button longer again exiting the menu and returning to the operating window
- Turning the knob allows one to adjust the temperature or select the menu item

If the menu is not exited manually, then after 30 s of idleness the thermostat automatically returns to the operating window.

Turning the thermostat off

Hold the OK button until the thermostat is switched off.
Switching the thermostat off suspends the temperature control indefinitely — a clock, weekday, current room temperature and ⏻ icon are displayed. In order to restore temperature control, hold OK for over 1 second.

Temperature sensor

The wireless thermostat may control the room temperature based on the measurements of the built-in sensor only.

2. BASIC SETTINGS

The main menu consists of four basic items:

- **MANUAL (1)** — enables manual switch-on of the heating, cooling, fan with a preset speed rate for a specified period of time
- **MODES (2)** — enables switch-over between the heating and cooling mode, selection of the fan operation mode, switch-on of the vacation function
- **PROGRAMS (3)** — enables edition of preset temperature ranges
- **SERVICE (4)** — includes service settings

The menu items with numbers assigned to them are listed in the table below.

ITEM NO.	MENU ITEM	ITEM NO.	MENU ITEM
1	**Manual** — enables manual switch-on of the heating, cooling, fan with a preset speed rate for a specified time period	101	**Heating** — switch-on of the heating output
		102	**Cooling** — switch-on of the cooling output
		103	**Fan** — switch-on of the fan with a selected speed rate
		104	**Exit**
2	**Modes** — enables switch-over between the heating and cooling mode, selection of the fan operation mode, switch-on of the vacation	201	**Operation mode** — selection between the heating, cooling and the mode of automatic switch-on of the cooling
		202	**Fan** — automatic fan operation mode (automatic speed rate change), rotational speed (the fan operates with rotational speed selected in the rotational speed menu)
		203	**Vacation** — switch-on of the vacation function

	function	204	**EXIT**
3	**Programs** — enables edition of preset temperature ranges	301	**Day** — selection of a day the program of which is to be edited
		302	**Edit** — edit of thermostat operation programs
		303	**Delete** — deletion of programmed week ranges
		304	**Copy** — copying of programs to selected weekdays
		305	**EXIT**
4	**SERVICE** — includes service settings	401	**OPERATING TIME** — the total operating time of the heating/cooling output
		402	**YEAR TIME** — current date and time setting
		403	**HYSTERESIS** — setting the heating and cooling hysteresis
		404	**BLOW-THROUGH** — a function activating the fan periodically in order to force air circulation (with preset operating time and period)
		405	**HEATING IN ADVANCE** — turning the heating on in advance in order to obtain the preset temperature at the required time
		406	**MINIMUM TEMPERATURE** — minimum possible temperature to be set, it constitutes also anti-freeze temperature
		407	**MAXIMUM TEMPERATURE** — maximum possible temperature to be set
		408	**SENSOR CORRECTION** —correction of the temperature read-out
		409	**PIN** — thermostat interlock with a PIN-code
		410	**RESET** — restoring factory settings
		411	**EXIT**
5	**EXIT**		

The following section describes the most useful user functions:

Date and time

In order to set the time and date, enter the SERVICE (item 4) menu and select YEAR TIME (item 401).
Select digits of the current date and hour, and confirm each of them subsequently. The following is set respectively:

- Last two digits of a year
- Month
- Day
- Hour
- Minutes

After confirming minutes, the thermostat updates the entered date and the service menu may be exited or the user may proceed to select other functions.

Factory-set ranges

The thermostat is provided with the factory-programmed ranges, which may be freely adjusted and deleted. In case of resetting (item 410), all current ranges are replaced with the factory settings.

Heating:	**Cooling:**
Mon–Thu	**Mon–Fri**
P1 21ºC 06:00 am – 08:30 am	P1 23ºC 06:00 am – 08:30 am
P2 18ºC 08:30 am – 04:00 pm	P2 28ºC 08:30 am – 03:00 pm
P3 21ºC 04:00 pm – 11:00 pm	P3 22ºC 03:00 pm – 11:00 pm
P4 17ºC 11:00 pm – 06:00 am	P4 25ºC 11:00 pm – 06:00 am
Fri	**Sat–Sun**
P1 21ºC 06:00 am – 08:30 am	P1 23ºC 06:00 am – 11:00 am
P2 18ºC 08:30 am – 04:00 pm	P2 22ºC 11:00 am – 04:00 pm
P3 21ºC 04:00 pm – 11:00 pm	P3 23ºC 04:00 pm – 11:00 pm
P4 17ºC 11:00 pm – 08:00 am	P4 25ºC 11:00 pm – 06:00 am
Sat	
P1 21ºC 08:00 am – 11:00 pm	
P2 17ºC 11:00 pm – 08:00 am	
Sun	
P1 21ºC 08:00 am – 11:00 pm	
P2 17ºC 11:00 pm – 06:00 am	

3. PROGRAMS (RANGES) — PROGRAMMING OF TEMPERATURES AND THEIR DURATION

It is possible to program up to 9 ranges with various temperatures per day. It is possible to set up various ranges for each day of the week.
In order to program temperatures and their time ranges, enter the PROGRAMS menu (item 3) and then:

DAY — item 301 — select a weekday or a group of days to be programmed (edited)

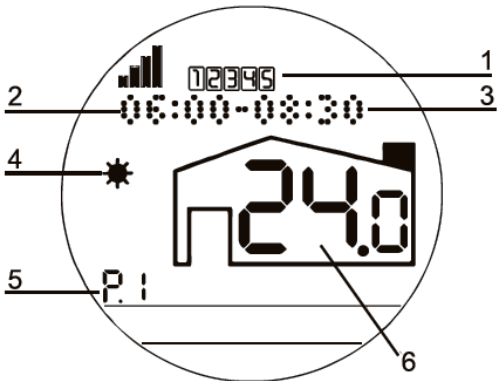
When DAY is displayed, press OK. The weekday digit will start flashing. Select any day or a group of days of the week using the knob. It is possible to program the following groups of days:

- From Monday through Friday — digits: 1, 2, 3, 4, 5 are flashing on the display
- Saturday and Sunday — digits 6, 7 are flashing
- The whole week — digits of all days of the week: 1, 2, 3, 4, 5, 6, 7 are flashing.

Select the proper day or group of days and confirm. After selecting, the device will automatically proceed to the next item — EDIT (item 302).

EDIT — item 302 — preview, establishment, change or deletion of the stored ranges for a previously selected day or group of days

After entering the edit menu, the first program is displayed (P1 icon is flashing). Starting and ending hours of this range, its icon and selected temperature are displayed.



1. Day or group of days
2. Range starting time (hour and minutes)
3. Range ending time (hour and minutes)
4. Graphic icon of the range
5. Subsequent number of the range
6. Temperature set for this time range

Flashing of individual elements indicates that they may be changed.
In order to select a different range or add a new one, enter the **edit** menu (item 302). P1 will start flashing. Turn the knob clockwise. ADD RANGE will be displayed. In order to store changes, turn the knob until STORE appears and confirm.
When P1 (or any other program number) is flashing, the parameters of the program may be changed. To change them, press OK. This will allow for changing subsequently:

- Temperature (when it starts flashing, it may be set with the knob)
- Range starting time (hour and minutes)
- Range ending time (hour and minutes)
- Icon (if no icon is visible, turn the knob counterclockwise)

After confirming the icon, P with a proper number is displayed again. The thermostat will automatically arrange the ranges in the proper sequence, therefore their numbering may change.
When P1 is flashing, the knob may be turned to check other ranges of the same day. Exit editing by holding OK longer. Return to the operating window by holding OK again. Exiting in this way does not enable storing the introduced changes.
In order to store the changes, exit editing using the STORE option.

Duration of ranges P0

Manually established range may not be shorter than 5 minutes and may not exceed 24 hours. However, it may start on one day and end on the next one. This enables establishing a range starting in the evening and ending in the morning.
In such case, an additional number will be visible: P0. It is only informative. A new day is not limited by this range and the hour of starting the first range may be set freely.

Deleting ranges

A delete function is used to delete ranges.
Please remember: there will be a pause in heating in the place of the deleted range.
Adding a new range with starting and ending hours completely overlapping another range also deletes the previous one.
A range set up with the same starting and ending hour will be effective for 24 hours.

Automatic shifting of range limits

If a starting or ending hour of a new range overlaps a different, previously established range, then the preprogrammed one will be automatically shortened.

COPY — (item 304) — copying all settings from one day to another or several other days

In order to copy any day to another or several other days, select COPY (item 304). Use the knob to select a day from which the settings will be copied. Confirm the selection. PASTE TO DAY is displayed. Use the knob to select a day or days to which the settings will be pasted. Confirm. After selecting all days to have the same ranges, turn the knob clockwise until STORE appears and confirm.

DELETE — (item 303) — deleting the selected range of hours. In order to delete the previously programmed range, select the delete option, then select the range to be deleted and confirm it with OK button. Upon deleting the selected range, turn the knob clockwise until the STORE sign appears, then confirm.

4. OPERATION MODES – SELECTION OF THE HEATING / COOLING MODE, VACATION FUNCTION

OPERATION MODE — (item 201) — enables switch-over between the heating and cooling mode or the mode of automatic switch-over between the heating and cooling. When in the AUTO position, the thermostat automatically switches-over between the heating and cooling mode. Set the limit temperature TURN OFF IF above which the thermostat operates with cooling settings. If the temperature drops below the limit temperature by the value of hysteresis, the thermostat switches over to heating control.

FAN — (item 202) — enables selection between the automatic change of the fan speed (according to the values preset in the technician's menu) and the operation with constant fan speed rate

VACATION — (item 203) — setting any temperature for a longer period (several hours, weeks or months), e.g. due to absence. It may start on the day of setting or in the future, e.g. in a month or even a year time and may last for any required period.

In order to set a vacation temperature, enter MODES (item 3) and take the following steps subsequently:

- Select VACATION (item 203) — use the knob to set YES and confirm
- Set the year of starting the vacation period (START: YEAR) and confirm
- Set the month of starting the vacation period (START: MONTH) and confirm
- Set the hour (without minutes) and confirm
- Set the year of ending the vacation period (STOP: YEAR) and confirm
- Set the month of ending the vacation period (STOP: MONTH) and confirm
- Set the hour of ending the vacation period
- Set the temperature to be maintained during the vacation period and confirm.

The operating window view reappears at the thermostat and the icon is visible.
Switching the vacation mode off:

- If it is active — press OK
- If it is set for future activation — enter the VACATION mode and select NO.

III. SERVICE FUNCTIONS

The SERVICE menu (item 4) enables previewing and altering of advanced functions of the thermostat.
Settings introduced by a technician at the time of the thermostat start-up are enough for the proper control of room temperatures without the need to correct any of the options. Therefore, the less experienced user does not need to enter service menu in order to take the full advantage of the thermostat capabilities. If more serious modifications are necessary, it is recommended to consult a technician or our technical service.
It is recommended to be very careful when modifying the service or installation settings, especially those unlisted above and do it only if necessary.

Caution! Any intervention may cause malfunction of the system and in extreme cases, it may result in damaging some elements of the system.

OPERATING TIME (item 401) — operating time counter of a heating (air-conditioning) device

Control of the total period of heating or cooling active time
In order to reset the counter, after displaying the time press OK shortly. After pressing OK again, the counter is zeroed.
In order to exit this item without resetting the counter, hold OK for 2 s.

YEAR TIME — (item 402) — setting the current date and time

HYSTERESIS — (item 403) — value by which the temperature must drop below the preset one for the heating to get switched on or by which it must rise above the preset one for the cooling to get switched on

BLOW-THROUGH (item 404) — temporary activation of the fan aimed at forcing the air circulation in the room. Blow-through parameters, idle time and power at which the fan will operate.

HEATING IN ADVANCE — (item 405) — time of turning the heating on in advance is calculated with an advanced algorithm, taking into account previous room heat-up times and currently measured temperature. The thermostat needs several operating days to properly calculate times for various temperatures, thus for the first days the calculated times may not be enough to achieve precisely the preset temperatures at established times. Usually, the correct values are reached within two or three days. For a proper operation of the advance heating algorithm, at least two temperatures varying by minimum of 0.5ºC must be set in the thermostat. The time of advance is calculated and updated in the thermostat memory even if the heating in advance is not switched on in the service menu (item 307). If the thermostat was already operated in a place and was moved to another room (building), then the advance times may vary from the required ones and will reach a stable value within several days. In particular cases, it is recommended to delete the stored advance times. In order to do so, switch off the advance function and then switch it on again. After switching this function on, it is possible to select the mode of advance:

- COMPLETE — switching the heating on with the exact calculated period of heating in advance.
- LIMITED — the calculated time of heating in advance may be shorter but not longer than the one set with this item.

Time of advance may be limited within the range from 20 to 240 minutes. This ensures that the heating will not start too early. However, in such case, heating the room up to the preset

level may be delayed. In special cases, when the range in question is short, the preset temperature may not be achieved at all. However, it will be higher than without advance.

MINIMUM TEMPERATURE — (item 406) — setting the minimum possible temperature to be set. It is also the minimum temperature to be maintained by the thermostat if, for example, no automatic operation range will be programmed.

MAXIMUM TEMPERATURE — (item 407) — maximum possible temperature setting to be set in the thermostat.

SENSOR CORRECTION (item 408) — modification of temperature read-outs and display by a preset value. It is recommended to leave this value unchanged, thus set to 0.

PIN (item 409) — restriction of access to all or selected thermostat functions.
Factory preset code is 0000 and it can be changed to any other. In order to set the lock, enter menu: SERVICE/PIN (item 409)/YES. Select the element to be locked and enter any four-digit code. From this moment, it will be used to unlock and to reset the thermostat (in the RESTORE FACTORY SETTINGS menu — item 410).

- ALL — interlocks access to all thermostat functions. Only the display backlight is operational and when holding OK longer, the request to enter the code appears. Enter the code using the knob while confirming each digit.
- MENU ONLY — temperatures and their durations may be set manually, but in order to enter the main menu (MODES, PROGRAMS, SERVICE), it is required to enter the code.
- SERVICE ONLY — interlocks only the possibility to enter the SERVICE item.

RESTORE FACTORY SETTINGS — (item 410) — deleting all settings and programs

Factory-code of reset is 0000 if the code of PIN item is changed, then the new one is also valid for reset. Resetting does not alter the settings entered in the technician's menu neither does it reset the date and time. It deletes all settings in the SERVICE menu along with the programmed ranges.

IV. TECHNICIAN'S MENU

The technician's menu facilitates installing the thermostat with proper settings without the need to modify them manually.
In order to enter these settings, hold OK. When SETUP appears, hold OK and turn the knob. INSTALL will appear.

The technician's menu consists of the following items:

- RESET (item 1) — using it deletes all settings and restores the thermostat factory settings (including the installation settings and default interlock code). It is recommended to consult a technician or EUROSTER technical service before resetting the device. Reset is performed with a separate code: **7153**, irrespective of the code set in the service menu.
  Caution! Restoring factory settings may lead to improper operation of the heating device and in extreme cases, it may lead to a failure or damage of the system.
- FAN COIL UNIT (item 2) — enables the user to select the following:
  - ✓ Language
  - ✓ Speed 1 — value (range) of the temperature valid for speed 1
  - ✓ Speed 2 — value (range) of the temperature valid for speed 2

  - ✓ Speed 3 — enables the switch-on or switch-off of speed 3 during automatic operation
  - ✓ Switch-on delay (in minutes) — delay in switching the fan on related to the switch-on of the heating or cooling. First the heating or cooling output is switched on and after the preset time, the fan is switched on.
    Setting the value of 0 means the lack of delay, the fan is switched-on simultaneously with the heating/cooling
  - ✓ Switch-off delay (in minutes) — delay in switching the fan off related to the switch-off of heating or cooling. First the heating or cooling output is switched off and after the preset time, the fan is switched off.
- RADIO (item 3) — serves to pair devices, establishes the number of devices
- TEST (item 4) — serves to:
  - ✓ Check the software version
  - ✓ Check the fan speeds
  - ✓ Switch the heating on
  - ✓ Switch the cooling on
  - ✓ Check the display
  - ✓ Check the signal strength
  - ✓ Measure the temperature

DETAILED DESCRIPTION OF THE PARAMETERS OF THE RADIO ITEM

NUMBER OF RX — selecting a number from 1 to 6 determines how many receivers will cooperate with one thermostat. The receivers will simultaneously be switched on and switch the connected devices off.

CHANNEL — in exceptional cases, it is possible that some external interference will affect the operation of the set. Therefore, the set enables selecting the radio channel for it to operate at. Any channel from 0 to 4 may be selected. After changing the channel, the set should be paired again. The channels should be changed only when the conditions dictate.

PAIR — each thermostat and each receiver has a unique number distinguishing it from other ones. It is not possible for any thermostat not paired with the particular receiver to interfere with the operation of another pair or set. Therefore, none of the thermostats requires assigning a separate code or number.

Factory-established pairs are paired, however pairing may be repeated if necessary.

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 pairing of devices in any way.
Prior to pairing, a number of RX receivers should be entered and possibly a channel should be established.
In order to pair:

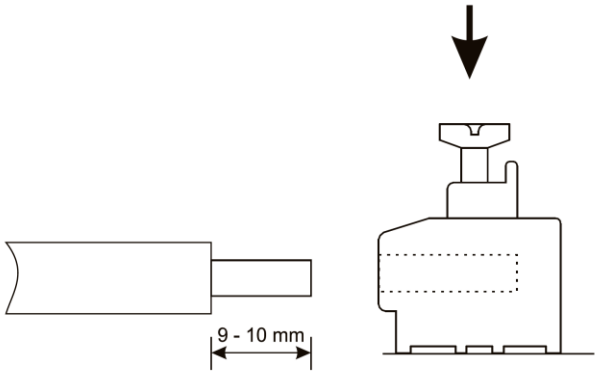
- Enter the PAIR item and press OK; WAIT... will be displayed.
- Then hold the left button of the RX receiver for 3 s; PROG will be displayed.
- Then hold the middle button longer; "P" letter will be displayed.
- Release the button and pairing will be complete.

Both devices will resume normal operation. When the thermostat backlight goes off, then the current signal strength and fan speed is displayed at the receiver.

When several receivers are to cooperate with one thermostat, the thermostat will complete pairing when all receivers are synchronized.

V. RX RECEIVER

The device should be installed in a place where the temperature does not exceed 40°C. The receiver is designed for 35 mm DIN rail mounting in a protective cabinet. Connect the cables to the connectors according to the description and sketch. Connect the device using a cable with the cross-section of min. 0.5 mm² and max. 1.5 mm². Push button connectors (spring-loaded terminal) are used in the receiver. The connection cables should be insulated at the length of 9–10 mm. Use a flat screw-driver to push the connector push button, insert the cable and release the button. Check the correct fastening of the cable.

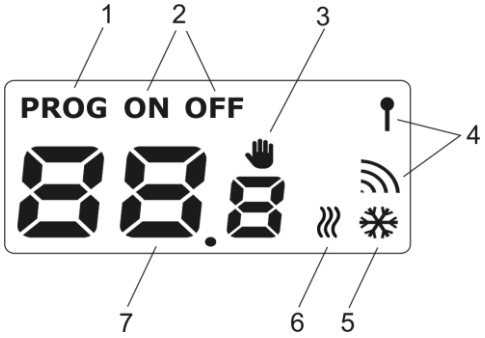


The receiver features outputs to control the following:

- Heating valve actuator — 24 V DC NC,
- Cooling valve actuator — 24 V DC NC
- Fan controlled with 0–10 V analogue signal (maximum 5 fans)
- Additionally, the receiver is equipped with an input that may be used to connect, for example, a window contact. The input status is signaled at the display as follows:
- ON — window contact input closed
- OFF — window contact input open, the thermostat maintains minimum temperature

If use of the input is not intended, keep the factory-fitted jumper.

DISPLAY DESCRIPTION



1. Active programming/testing mode
2. Status of the window contact input

3. Fan test switch-on or manual switch-on of the heating/cooling
4. Signal strength indicator
5. Cooling output switch-on icon
6. Heating output switch-on icon

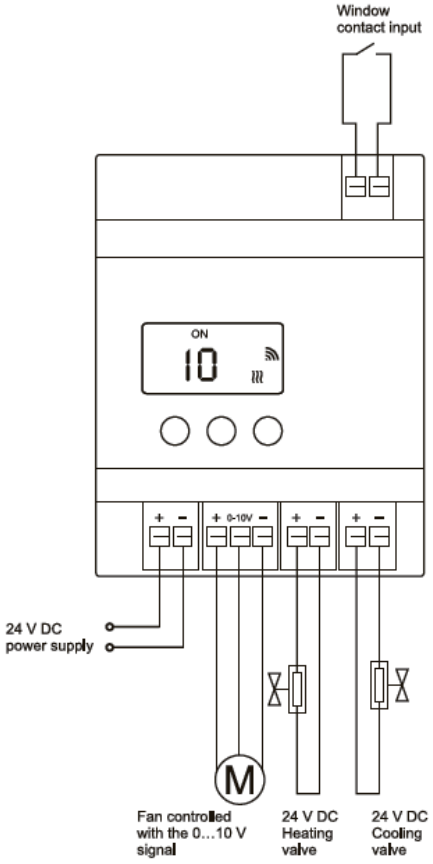
DESCRIPTION OF RX RECEIVER BUTTONS

1. Holding the button for 3 s activates the programming mode. "PROG", "NO" and the heating icon will be displayed. Pressing the button for a short time while in the programming mode activates a test switch-on of the fan, pressing the button subsequently results in changing the fan rotation speed. In order to activate pairing mode, press and hold the middle button. To exit, hold the left button longer.
2. Pressing the button for a short time while in the programming mode activates the procedure of pairing with the transmitter (thermostat).
3. It activates a test heating or cooling in the programming mode. The test mode lasts for 1 min after which the receiver resumes automatic operation.

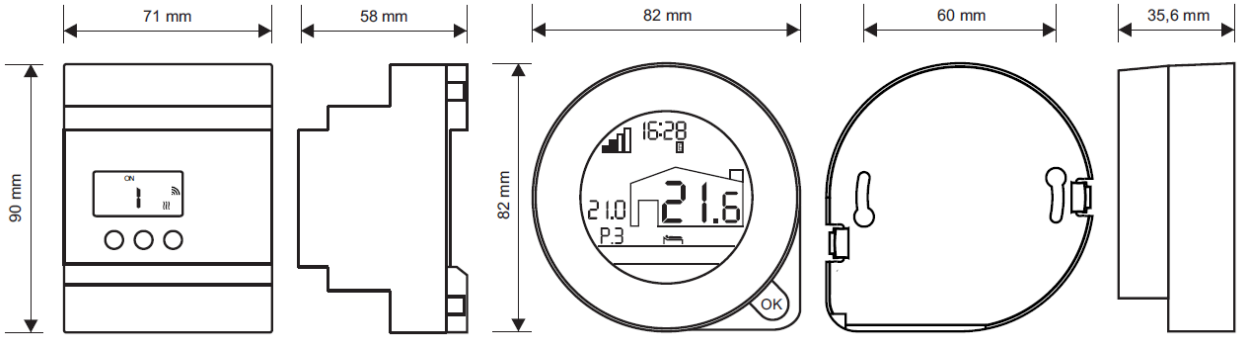
If the receiver does not receive a signal confirming the operation of the thermostat within 15 minutes, the receiver(s) will switch off the heating and switch to the fail safe mode. After 3 hours, the A letter will be displayed. The connected device will be switched on for 20 minutes every 3 hours.

V. TECHNICAL PARAMETERS

CONNECTION DIAGRAM



DIMENSIONS



TECHNICAL DATA

Controlled device	Fan coil units, hydronic air heaters, trench heaters, forced air heating
Supply voltage	3 V thermostat (2 pieces of alkaline AA batteries) 24V DC receiver
Maximum power consumption of the receiver	1.4 W
Receiver output	Fan — analog 0...10 V 24V DC NC valve actuators
Maximum load	2A 24V DC valve actuators
Maximum range	Up to 20 m (in built-up area)
Temperature measurement range	-9.9°C...+99.9°C
Temperature adjustment range	+5°C...+35°C
Temperature control accuracy	0.1°C
Temperature reading accuracy	0.1°C
Visual signalization	Backlit LCDs
Operation temperature	+5°C...+40°C
Storage temperature	0°C...+45°C
Ingress protection rating	IP20
Color	White thermostat, gray receiver
Mounting method	Thermostat on a stand/ receiver in a cabinet (35 mm DIN rail, 4 modules)
Weight	Thermostat without batteries — 114g receiver — 120 g
Warranty period	2 years
Dimensions (width/height/depth) in mm	Thermostat — 82/82/35.6 receiver — 71/90/58
Frequency of operation	868 MHz
Maximum power of transmission	< 25 mW
Thermostat class	IV
Thermostat contribution to the seasonal energy efficiency of room heating	2%

KIT CONTENTS:

- Euroster Q8TX thermostat
- RX receiver
- 2 pieces of alkaline AA batteries
- Installation and Operation Manual with Warranty Certificate
- Thermostat stand

SIMPLIFIED DECLARATION OF CONFORMITY

P.H.P.U. AS AGNIESZKA SZYMAŃSKA-KACZYŃSKA hereby declares that the type of EUROSTER Q8TXRX 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: http://www.euroster.com.pl

ELECTRONIC WASTE MANAGEMENT INFORMATION

This product is designed and manufactured from high quality materials and components suitable for reuse.
The crossed out wheelie bin symbol located at the product 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 subject to the 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 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 from inaccurate storage and processing of such equipment and batteries.
The guidelines regarding disposal of accumulators are included in the user manual.
A household plays an important role in contributing to reuse and recovery, including recycling of the waste equipment. The attitudes influencing protection of the common good of clean environment are shaped at this level. Households are also one of the largest users of small equipment and its rational management at this stage impacts the recovery of recyclables.
Inaccurate disposal of this product may be penalized in accordance with national legislation.

WARRANTY CERTIFICATE

EUROSTER Q8TXRX thermostat

Warranty terms:

1. The warranty is valid for 24 months from the device sale date.
2. Claimed controller 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 invalidated in case of any mechanical damage, incorrect operation and/or making any repairs by unauthorized persons.
6. This consumer warranty does not exclude, restrict nor suspend any right of the buyer if the product does not meet any of the sale contract terms.

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Sale date	Serial number/ date of manufacture	Stamp and signature

Business entity that issued this warranty certificate is:
P.H.P.U. AS Agnieszka Szymańska-Kaczyńska, Chumiętki 4, 63-840 Krobia, Poland