

EUROSTER 506



Introduction

The unique design of this product includes "Intelligent Mode Selection" which allows selecting the desired operation mode either heating/cooling or floor-heating.

There are 3 operating modes:

1. Room mode - Room sensor commands.
Room temperature regulation either for cooling or heating.
2. Floor mode (Floor heating) - Floor sensor commands.
Floor temperature controls heating.
3. Room +Floor limitation (Floor heating) - both Room sensor & Floor sensor joint command
Room temperature as the priority command to heating system with floor temperature limitation.

Thermostat can detect from the jumpers

1. The number of temperature sensors that have been connected.
2. If the Cooling or Heating mode is required

The unit will automatically operate in the mode that has been detected.

Factory default settings: Heating & room-sensor enabled.

Choosing correct location for the thermostat

The thermostat should be located in the room where the heating/cooling is to be controlled, except in case for floor heating only.

The place of installation should be chosen so that the sensors can measure the room temperature as accurately as possible, without being affected by direct solar radiation or other heating or cooling sources.

The mounting height should be approximate 1.5 meters above the floor.

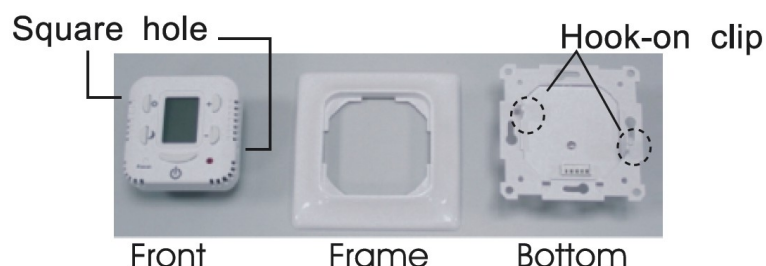
The unit can be fitted to most commercially available recessed conduit boxes or directly on the wall (Surface-mount box for installing this unit is also available)

Start installation - It's important to follow the procedures described in this section, otherwise the thermostat may not work properly.

To open thermostat plastic housing - Refer to photo description below

Plastic enclosure of this unit consists 3 plastic parts, front, frame and bottom. They are assembled by an unique design of hook-on closure.

Hook-On clip extends from the Bottom part, through the Frame at middle and hook on to two tiny square holes on both right & left side of the Front part of the plastic housing.



(A flat-head screw-driver is required.)



Insert screw driver into square hole on one side



Tilt screw driver upward to loosen.



Insert screw driver into hole on the other side



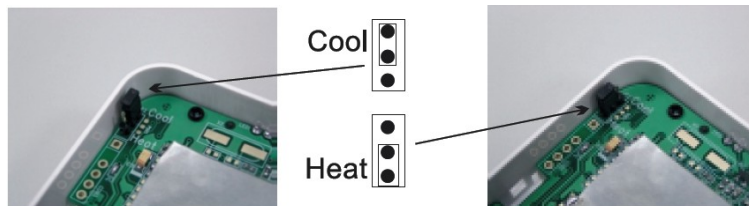
Tilt upward to loosen the front part from hook-on elips.



Open by hands, as shown on left

Choosing Cooling or Heating mode

look for JUMPER select or on PCB shown in picture (at top left corner on the back of the Front part)



A. Cooling mode chosen - this thermostat will work as Room thermostat for cooling only.

Display on LCD will be: system on system off

Functions provided in thermostat that involve floor-heating will be disabled when Cooling mode is chosen. Do not choose Cooling-mode if you are using this thermostat for floor-heating.

Symbol of will appear on LCD to alert users, if an error occurred in this selection.


B. Heating mode chosen - for use of this thermostat for Heating or Floor-Heating.

Display on LCD will be: system on system off


To enable or disable the room sensor

This selection provides 3 operating modes:


A. Room mode - Room sensor controls on/off

Display on LCD shall show room-mode symbol  (Room sensor is positioned inside the thermostat)
Room Sensor must be enabled

B. Floor mode(Floor heating) — Floor sensor controls on/off

Display on LCD shall show. 
Room sensor must be disabled

C. Room +Floor limitation (Floor heating)

Room sensor controls on/off with Floor sensor controls floor temperature limitation. Display on LCD shall show 
Room Sensor must be enabled

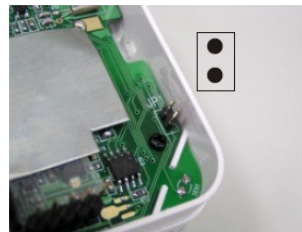
Be certain the floor-sensor cable is connected, if B or C mode is required.

How to enable or disable the Room Sensor

Locate for JUMPER selector on PCB shown in picture. Choose "enabled" or" disabled".



Enabled. Room Sensor enabled.



Disabled. Room Sensor disabled.

To close the unit: Line up the pins with the connector

	<p>1. Put the frame be situated on top of the bottom part.</p>		<p>2. Placing one side of the top part in the frame.</p>
	<p>3. Close another side</p>		<p>4. Press the front part downward to firmly close</p>

Be certain the two hook-on clips extends from the Bottom part are positioned in the square holes on the Front part.



Remark:

This unit has compatible plastic housing structure to most commercially available recessed conduit boxes (bezel). Users can insert the bottom part in the conduit box and directly close the Front part on top of the Bottom part without the Frame being situated in middle.

Specification

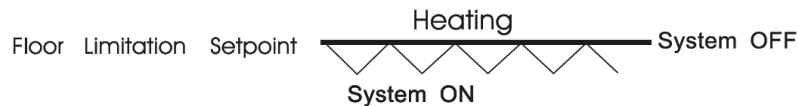
It's recommended to thoroughly read technical data stated in this page prior to adjusting the Internal Setting to your application needs.


1. Operate power: Volt operate 230Vac
2. Display: LCD digital display
3. Output: Volt-free or voltage output , Rating 16Amp/250Vac

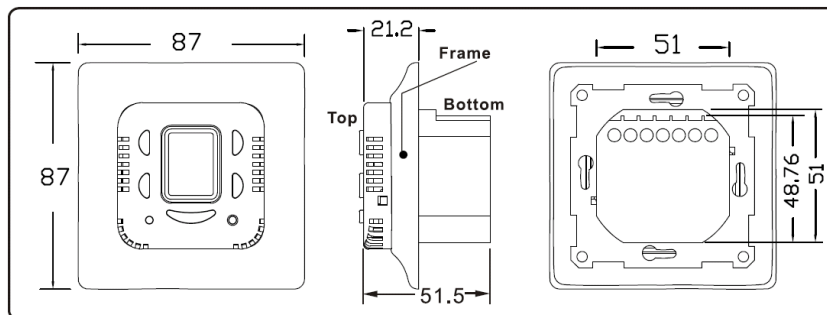
4. Circuitry consumption: 8VA
5. Temperature indication: C or °F selectable to users
6. Temperature control range: Room: 5~35°C (40~95°F) Floor: 5~45°C (40~113°C)
7. Temperature display range: -10~50°C (14~122°F), accuracy ±0.1 °C (0.2°F)
* no decimal indicator above 100°F
8. Comfort  set point adjustment range:
Room mode: Range 5~35°C (40~95°F) default Cool 24°C (75°F), Heat 21°C (70°F)
Floor mode & Room+Floor-Limitation mode: Range 5~45°C (40~113°F) default Floor-mode 26°C (78°F)
Room+Floor-Limitation mode: 21°C (70°F) (Room Temp. Performs the priority commands)
9. Economy  set point adjustment range:
Room mode: Range 5~35°C (40~95°F) default Cool 27°C (80°F), Heat 16°C (60°F) Floor mode & Room+Floor-Limitation mode: Range 5~45°C (40~113°F) default Floor-mode 21°C (70°F)
Room+Floor-Limitation mode: 16°C (60°F) (Room temp. Performs the priority commands)
10. Floor temperature limitation adjustment range:
For Floor mode & Room+Floor-limitation only:
High Limit.: 20~45°C (68~113°F) default 29°C (85°F)
Lo Limit.: 5 ~20°C (40-68°F) default 15°C (59°F)
* In floor-mode, Lo Limit. Performs as low-temperature protection, Hi-Limit. Functions as floor-temp. Limitation.
*In Room + Floor Limitation mode, only Hi-Limit. Effects.
11. Temperature sensor : NTC 10K Ohm at 25°C
12. Switching differential (Hysteresis) selectable to users
Room & Room+Floor-Limit. mode: 0.2/0.4/0.6/0.8/1°C ~ 0.4/0.8/1.2/1.6/2°F default 0.4°C/0.8°F
Floor mode only: 0.6/1/2/3°C ~ 1.2/2/4/6°F default 1°C/2.0



13. Floor-limitation switching differential: 2.0°C (4.0°F) prefixed, not adjustable.
In Room+Floor Limit mode, after floor temperature reached floor-limit. Setpoint, heating system ON/OFF shall perform as graphic descriptions below, before users change the setpoint.



14. Frost protection: Prefixed, not adjustable to users. Effects when thermostat is OFF by Stand-by() mode. Room mode& Room+floor limit. mode 5°C (40°F). Floor mode 10°C (50°F)
15. Shortest cycle rate protection: 3 minutes, effects only in Cool-mode.
16. Material: Non flammable plastics ,standard white or RAL9010
17. Storage temperature:-10 ~60°C.
18. Dimension: 87.0 H x 87.0 W x 51.5 D mm

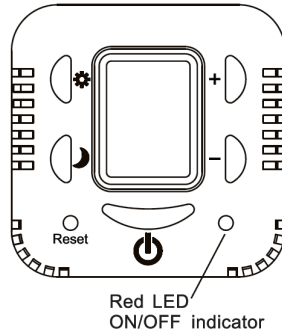


For choosing the required floor-limitation setpoint; it's recommended to carefully check the material used in constructing your floor before selection. It's advised to consult with your builder. Contact your distributor or technician for advice in order to obtain the ideal temperature for the coziest possible home. All factory default settings can be found in the page "SPECIFICATION", it's advised to look through them

before changing the internal settings.

Adjustment procedure

Press both **+** & **-** for 5 seconds to enter adjustment mode. Follow the flashing guide on the LCD to complete adjustment. The Content varies depending on the chosen operating mode.



It is advisable to press "RESET" before changing the Internal Setting. This thermostat can operate in one of these operating modes - Heating/Cooling/Floor-Heating. Consult with technician if uncertain on the choice of the correct operating mode.

Room mode – Room sensor commands

Room temperature controls either cooling or heating

1. Press **+** or **-** to select °C or °F
2. Press **Power** for next adjustment, the COMFORT **⚙️** default value.
3. Press **+** or **-** to select the desired temperature for COMFORT.
4. Press again the **Power** to choose the desired ECONOMY **🌙** default value .
5. Press **+** or **-** to select the desired temperature for ECONOMY
6. Press **Power** for next adjustment, the Switching Differential (Hysteresis).
7. Press **+** or **-** to select the desired switching differential (5 selections).
8. Once all adjustments are completed, press again the **Power** button and start to operate.




Notice:

A3 minute waiting time will be required for the thermostat to start its operation after installation, if Cool mode was chosen. The waiting time will not be required if Heat mode was chosen.

Press both **+** & **-** for 5 seconds to enter adjustment mode. Follow the flashing guide on the LCD to complete adjustment. The Content varies depending on the chosen operating mode.



FLOOR MODE (Floor heating) - Floor sensor commands. Floor temperature controls heating.

1. Press **+** or **-** to select °C or °F
2. Press **Power** for next adjustment, the "Hi Limit" default value. (System shuts off when temperature reaches Hi Limit)
3. Press **+** or **-** to select the desired temperature for "Hi Limit"
4. Press again the **Power** to choose desired "LoLimit" default value. (Compulsory system activated when temperature reaches Lo Limit)
5. Press **+** or **-** to select the desired temperature for "LoLimit"
6. Press **Power** for next adjustment, the COMFORT **⚙️** floor temperature setpoint
7. Pressing **+** or **-** to choose the desired COMFORT floor temperature setpoint
8. Press again the **Power** button for next adjustment, the ECONOMY floor temperature setpoint
9. Press **+** or **-** to choose the desired ECONOMY floor temperature setpoint
10. Press the **Power** to choose the desired switching Differential (Hysteresis)

11. Press  or  to select desired switching differential (4 selections)
12. Once all adjustment are completed, press again the  button and start to operate.


















Reminder

Within Floor mode, COMFORT setpoint cannot be set above "Hi Limit", ECONOMY setpoint cannot be set low than "Lo Limit"

Press both  &  for 5 seconds to enter adjustment mode. Follow the flashing guide on the LCD to complete adjustment. The Content varies depending on the chosen operating mode.

Room +Floor limitation mode (Floor heating).



Both Room sensor & Floor sensor joint Command


1. Press  or  to select °C or °F
2. Press  for next adjustment, the COMFORT  room temperature setting
3. Press  or  to select the desired temperature setpoint for COMFORT
4. Press  for next adjustment, the ECONOMY  room temperature setting
5. Press  or  to choose the desired ECONOMY room temperature setpoint
6. Press again the  for next adjustment, the "Hi Limit" floor temperature limitation. (System shuts off when floor temperature reaches "Hi Limit")
7. Press  or  to chose the desired floor temperature limitation setpoint for "Hi Limit"
8. Press the  to choose the desired switching differential (Hysteresis)
9. Press  or  to select the desired switching differential (5 selections)
10. Once all adjustment are completed, press again the  button and start to operate

Reminder

Within Room+Floor-Limitation mode, COMFORT setpoint cannot be set above "Hi Limit"



Manual temperature setting

Users can conveniently increase or decrease temperature setpoint by pressing  or  buttons while the thermostat is operating.

The Symbol  shall appear on the LCD while thermostat is operating in Override mode. This manual change of the temperature setpoint will not alter Comfort or Economy settings.

Resume default settings

After this thermostat has been in operation for certain period time, if users wants to resume the default settings;

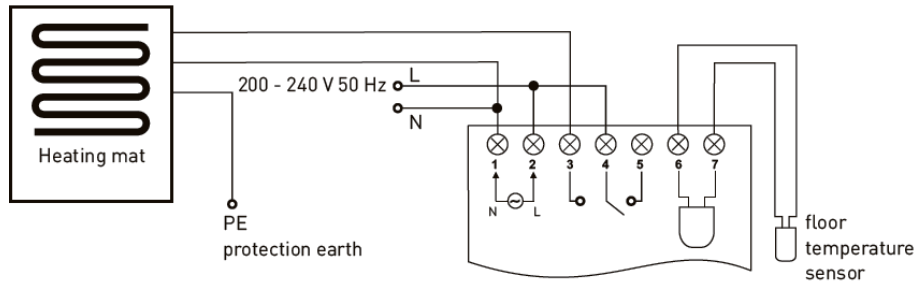
1. Press and hold the  button for 5 seconds
2. On the LCD, the  will appear
3. Press the **Reset** button.
4. Thermostat has now resumed the default settings.

Wiring diagrams

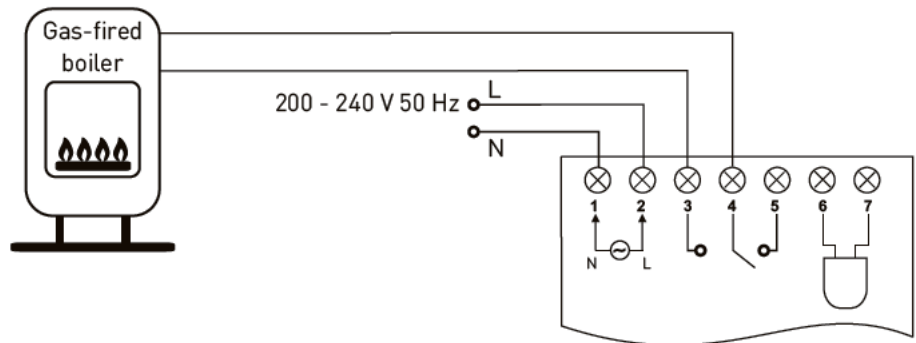
The simplified diagrams presented do not contain all of the elements necessary to correctly install the device.

Floor heating system

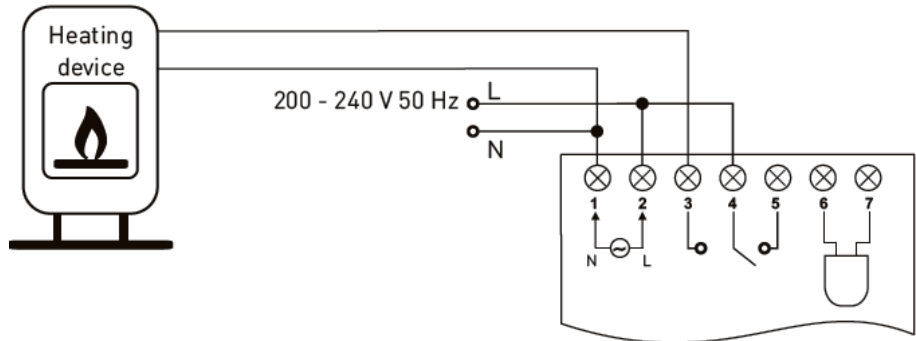
Floor temperature sensor connected via 2.5 m cable



Gas-fired boiler



Ch / air conditioning system



ELECTRONIC WASTE MANAGEMENT INFORMATION



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

The crossed out wheellie 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 an internal battery 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 and batteries may not be disposed of together with other household waste after their service life. The user is obliged to take the used devices and batteries to a point of collection of waste electrical and electronic equipment and batteries. The entities collecting such equipment, including the collection points, shops, and municipal entities, set up an appropriate system enabling handover of such equipment and batteries. The proper disposal of waste equipment and batteries contributes to prevention of consequences hazardous to the health of persons and nature, resulting from the possible presence of hazardous components in the equipments and batteries and from inaccurate storage and processing of such equipment and batteries. The guidelines regarding disposal of the batteries 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 larger users of small equipment and its rational management at this stage impacts the recovery of recyclables. Inaccurate disposal of this product may be penalised in accordance with national legislation.

SIMPLIFIED DECLARATION OF EU CONFORMITY

P.H.P.U. AS AGNIESZKA SZYMAŃSKA-KACZYŃSKA hereby declares that the type of **EUROSTER 506** equipment conforms to the following directives: 2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS).

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

GUARANTEE CERTIFICATE

EUROSTER 506

Warranty terms:

1. Warranty is valid for 24 months from the controller 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. Controller 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 ensuing if the product would not meet any of the sale contract terms.

.....
sale date

serial number/date of manufacture

signature/stamp

Business entity that issued this warranty certificate:

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