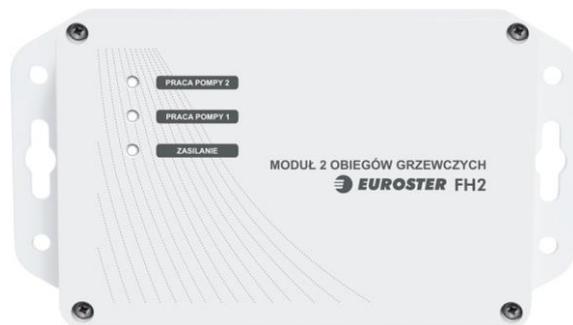


EUROSTER FH2

2 heating zone module



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

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

This manual is intended for v.1 05.2022 version of the controller.

1. INTENDED USE

Euroster FH2 is intended for the control of 2 heating zones in surface and radiator heating systems.

2. BASIC CONTROLLER FUNCTIONS

- Cooperates with two room thermostats
- Controls the operation of two heating zones equipped with CH pumps
- Controls boiler – voltage-free contact
- Provides zone overheating protection – includes bimetallic sensor (bimetallic circuit breaker) inputs.

3. 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 device make sure that it is de-energized!**
- **Dangerous voltages, hazardous to life, is present on the cables connected to the device, therefore only qualified technician holding authorization for such works may be entrusted with the installation of 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 device in rooms with increased humidity; protect it against water and other liquids!**
- **Do not install a device showing signs of mechanical damage!**
- **The device is not intended for use by children!**
- **Should there be any problem with the proper operation of the device, please contact your technician or the manufacturer!**

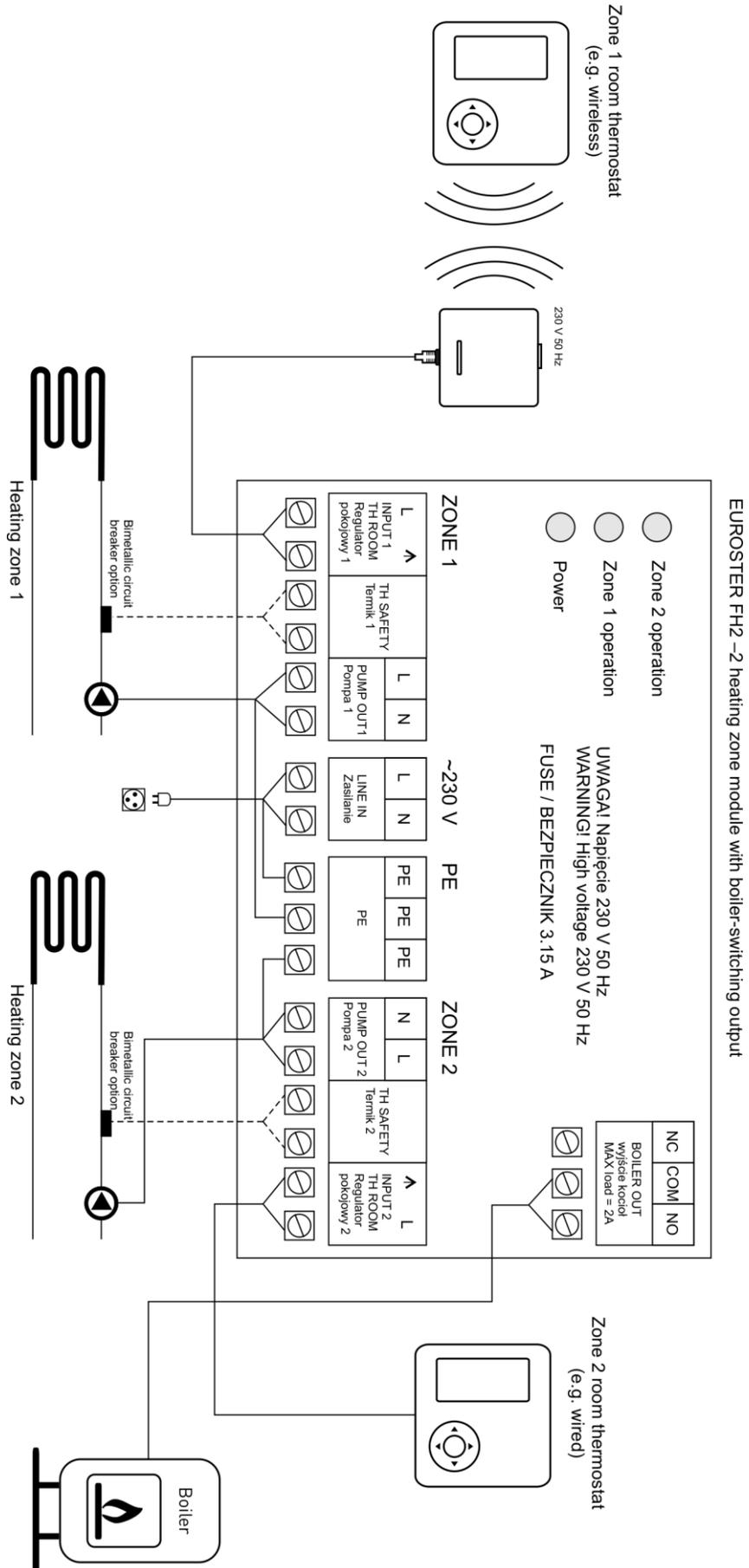
Screw the electric cables to the connection blocks according to the description and drawing. Make sure to keep the proper designation of the cables. Screw the neutral conductors to N terminals, phase conductors to L terminals, and grounding conductors to PE terminals.

CAUTION! When connecting the power cables, pay particular attention to the correct connection of PE conductors.

EUROSTER FH2 – INSTALLATION AND OPERATION MANUAL

Connection Diagram

The following diagram is simplified and does not cover all the elements necessary for the correct operation of the system.



4. CONNECTING THERMOSTATS

The EUROSTER FH2 module can cooperate with room thermostats with voltage-free, normally open (NO) output e.g. any thermostat manufactured by Euroster. Both wired and wireless thermostats may be connected.

Having obtained a signal from the room thermostat of a given zone, the FH2 module switches on the CH pump of this zone and the boiler output.

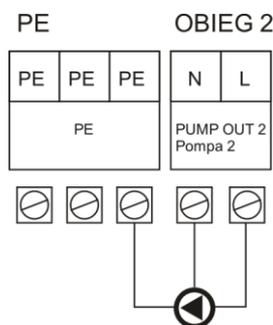
5. BOILER CONNECTION OUTPUT

The voltage-free BOILER output is used to switch on the heating source, e.g. gas-fired boiler. It has 3 contacts marked as NC, COM, and NO. It withstands mains voltage of 230 V and load of 2 A.

Usually, the boiler is connected to COM NO contacts (heating on when shorted, heating off when open).

6. CONNECTING THE CH PUMP

Connect the CH zone pumps to "Pump 1" and "Pump 2" connections as shown in the picture. Pay particular attention to the correct connection of PE conductors.



7. THERMAL PROTECTION

In the case of a system with underfloor heating, additional thermal protection (bimetallic circuit breaker) must be used. Its function is to protect the underfloor heating system against overheating. Exceeding the protection temperature results in switching the CH pump and boiler off.

When using the controller in a standard heating system, the use of thermal protection is not necessary. A jumper is preinstalled at the connection point of thermal protection.

CAUTION! The thermal protection is not included in the basic kit. Please order it separately.

Connecting thermal protection cable

- Connect thermal protection cables to "TH Safety Termik 1" and "TH Safety Termik 2" terminals. It is not necessary to observe cable polarization.
- Install the bimetallic circuit breaker at its intended location or the uncovered underfloor heating system pipe.
- Put the bimetallic circuit breaker against the pipe, the side without a 50°C label facing the pipe, fix it tight to the pipe with a hose clip and cover it with thermal insulation.

Caution! Failure to meet the above requirements may result in the malfunction of the thermal protection.

Caution! There are hazardous voltages (phase potential of the system) present in the thermal protection cables! In case of any damage to the cable, the controller must be de-energized and the cable replaced.

8. TECHNICAL DATA

Controlled device	2 pumps and CH boiler
Supply voltage	230 V 50 Hz
Maximum load	2 A 230 V 50 Hz
Operation temperature	+5°C...+40°C
Storage temperature	-10°C...+45°C
Ingress protection rating	IP20
Color	gray
Mounting method	wall-mounted
Dimensions (width / height / depth) mm	152x82x46
Weight	175 g
Warranty period	2 years

9. KIT CONTENTS

- Euroster FH2 controller
- 2 m-long power cable
- Screw anchors
- User Manual with Warranty Certificate.

10. SIMPLIFIED DECLARATION OF CONFORMITY

P.H.P.U. AS AGNIESZKA SZYMAŃSKA-KACZYŃSKA hereby represents that the type of EUROSTER FH2 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

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.

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 the 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, batteries, and accumulators.

Households play an important role in contributing to reuse and recovery, including recycling, of waste equipment. The attitudes influencing the 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 stage impacts the recovery of recyclables. Inaccurate disposal of this product may be penalized in accordance with national legislation.

**WARRANTY CERTIFICATE
EUROSTER FH2 CONTROLLER**

Warranty terms:

1. The warranty is valid for 24 months from the device's 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 upon the day when the manufacturer received the claimed device.
4. The device may be repaired exclusively by the manufacturer or by a 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 if the product does not meet any of the sale contract terms.

.....
Sale date

Serial number
Date of manufacture

Stamp
and signature

Service:
Phone No.
(+48) 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