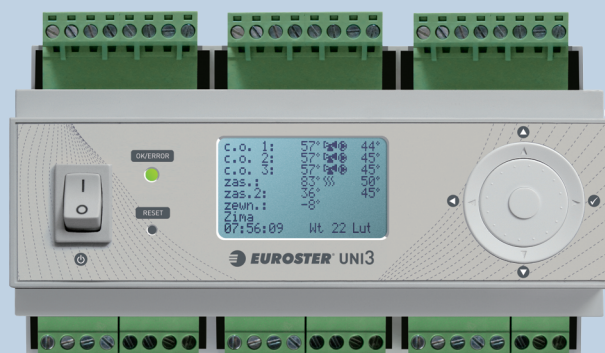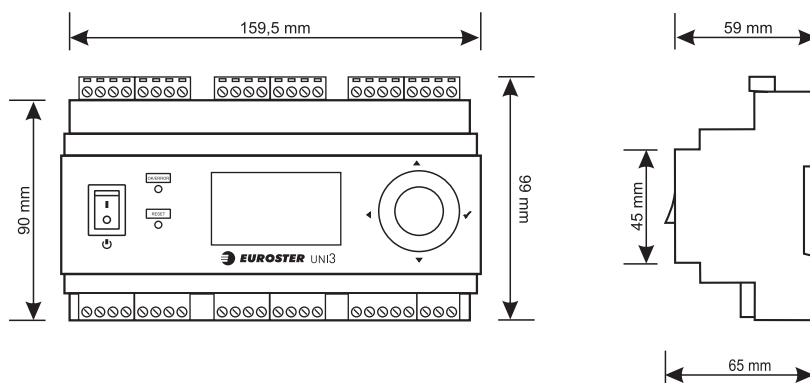# EUROSTER®

EUNI3

Weather-based controller for heating system

- control of three central heating (CH) circuits with mixing valves (e.g. radiator and floor heating systems)
- independent setting of temperature and weather curve for each circuit
- independent control of each circuit with room thermostat and weekly schedule
- controls both: main heat source – with its own controller, e.g. gas-fired boiler, and additional heat source – manually operated, e.g. solid fuel boiler, fireplace
- manual or automatic switching of summer / winter season – possible setting of starting and ending dates of the heating period
- selection of the circuit operating mode: by turning the pump on and off or by decreasing the temperature with a mixing valve with the pump turned on permanently
- utilizing the heat generated in the additional heat source (fireplace, solid fuel boiler)
- output for boiler or additional heating device control
- communication – possibility to combine several UNI3 and UNI2 controllers in order to operate extended systems
- possibility to turn off the mixing valve control or to turn off the circuit completely
- Anti-Stop function – protection of pumps and valves against seizure
- records of hazardous and alarm events
- overheating protection for each circuit
- alarm of allowable temperature excess
- possibility to turn on the frost protection mode
- cooperation with floor heating distributors
- controller interface languages: Polish, English, German, Czech, Russian and Hungarian
- set of sensors included

Controlled device	three central heating circuits with pumps and mixing valves
Supply voltage	230 V 50 Hz
Maximum power consumption	4 W
Maximum load of outputs	100 W (each output)
Controller outputs	relay, voltage type for pumps, valve actuators and alarm outputs relay, voltage-free type for control of the boiler or other heating device
Temperature measurement range	-30°C... +110°C
Temperature control range	+15°C...+90°C
Temperature control accuracy	1°C
Temperature reading accuracy	1°C
Visual signalization	backlit LCD, RGB LED
Operating temperature	+5°C...+40°C
Storage temperature	0°C...+45°C
Ingress protection rating	IP20
Color	gray, RAL7035

Mounting method	35 mm DIN rail-mounted, inside electrical cubicles
Controller weight	545 g
Standards, approvals, certificates	Conformity to EMC, LVD and RoHS
Warranty period	2 years
Dimensions (W/H/D) mm	159,5/90/59
Content of the controller set	Euroster UNI3 controller, power cable, temperature sensors (6 pieces), sensor hose clips, screw anchors, user manual with warranty card

Length of sensors included in the set:
1. Outdoor temperature sensor – 5 m
2. Power temperature sensor – 1,5 m
3. CH1 circuit temperature sensor – 1,5 m
4. CH2 circuit temperature sensor – 1,5 m

5. CH3 circuit temperature sensor – 1,5 m
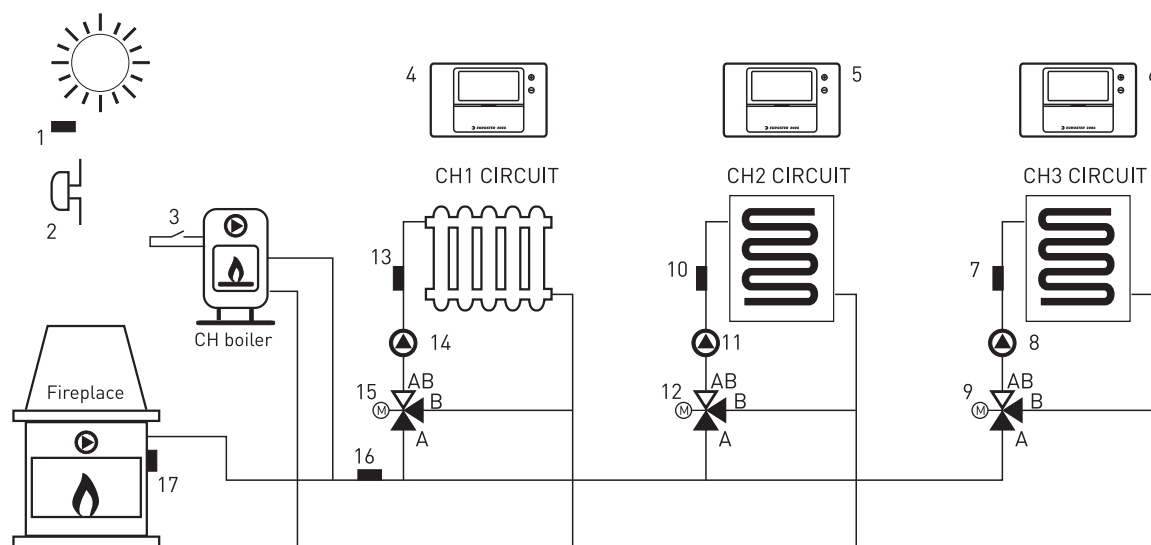6. Additional heat source temperature sensor – 2,5 m

The temperature sensors are of the same type and can be interchanged

SYSTEM LAYOUT

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

UNI3 is a universal controller designed to control the heating system equipped with:
- three CH circuits with mixing valves (e.g. for operating radiators and floor heating)
- main heat source – with its own controller, e.g. gas-fired boiler
- additional heat source – operated manually, e.g. solid fuel boiler, fireplace

1. Outdoor temperature sensor
2. Alarm indicator
3. Main boiler switch
4. Circuit 1 room thermostat
5. Circuit 2 room thermostat
6. Circuit 3 room thermostat
7. Circuit 3 temperature sensor

8. Circuit 3 pump
9. Circuit 3 mixing valve
10. Circuit 2 temperature sensor
11. Circuit 2 pump
12. Circuit 2 mixing valve
13. Circuit 1 temperature sensor
14. Circuit 1 pump

15. Circuit 1 mixing valve
16. Power temperature sensor for circuits
17. Temperature sensor of additional heat source