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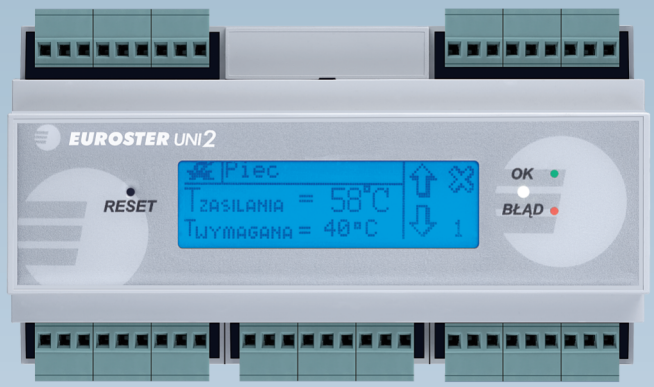
eUNI2

CH system universal controller with weather-based control algorithm.



EUROSTER UNI2

CONTROLLER

- three possible layouts for the CH system controlled
- for boiler / heat-buffer / fireplace CH systems (water-jacket fireplace with air throttle)
- may control a circulation pump in a radiator / floor CH system, mixing valve, DHW tank pump, DHW circulation pump or additional heat source
- backlit touch-sensitive LCD for comfortable communication
- may be adapted to existing CH systems
- questions displayed on screen for intuitive process control
- external operator panel may be connected to increase functionality
- independent wather-based or constant-preset CH temperature control
- cooperation with two room thermostats
- hourly operation schedules for CH / DHW pumps for cost savings
- safety thanks to advanced signaling of alarm / critical situations
- summer / winter operation mode
- self-verification of electrical connections
- Anty Stop function preventing idle pump rotors / valves seizing
- set of sensors

Device controlled	CH / DHW circulation pumps, water-jacket fireplaces
Power supply	230 V 50 Hz
Rated power consumption	4 W
Rated output load	100 W (every output)
Outputs	230 V 50 Hz relays for pumps, actuators, air throttle; voltage free relays for alarm and additional boiler
Temperature measurement range	-30°C...+99°C *
Temperature control range	+15°C...+80°C *
Temperature control accuracy	1°C
Temperature reading accuracy	1°C
Temperature control hysteresis	+1°C...15°C *
Status visualization	backlit touch sensitive LCD, LED diode
Operating temperature range	+5°C...+40°C
Storage temperature range	0°C...+55°C
IP rating	IP 20
Colour	gray, RAL7035
Mount method	wall-mounted, 35 mm DIN rail-mounted, electrical cabinet

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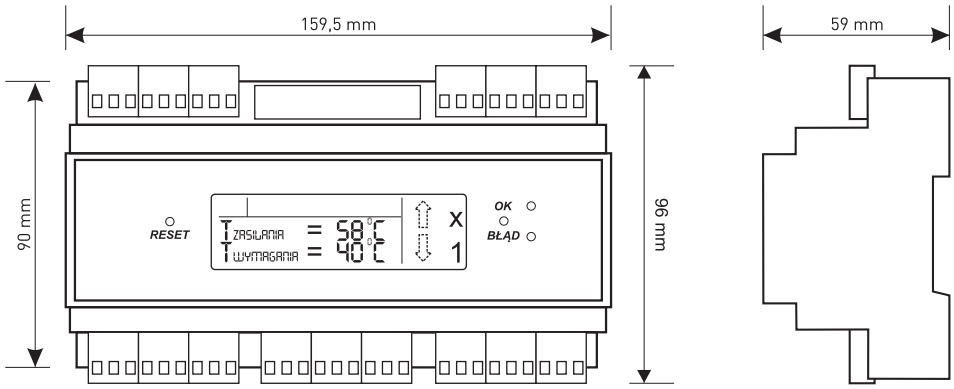
CONTROLLER

Weight	585 g
Certificates/standards	complies with the EMC and LVD Directives
Warranty period	2 years
Dimensions (W/H/D) mm	159,5/90/59
Packing list	Euroster UNI2 controller, power cable, temperature sensors (6 ea), stylus, instructions, wall plugs, sensor bands

* Values depend on the operational mode selected and temperature presets



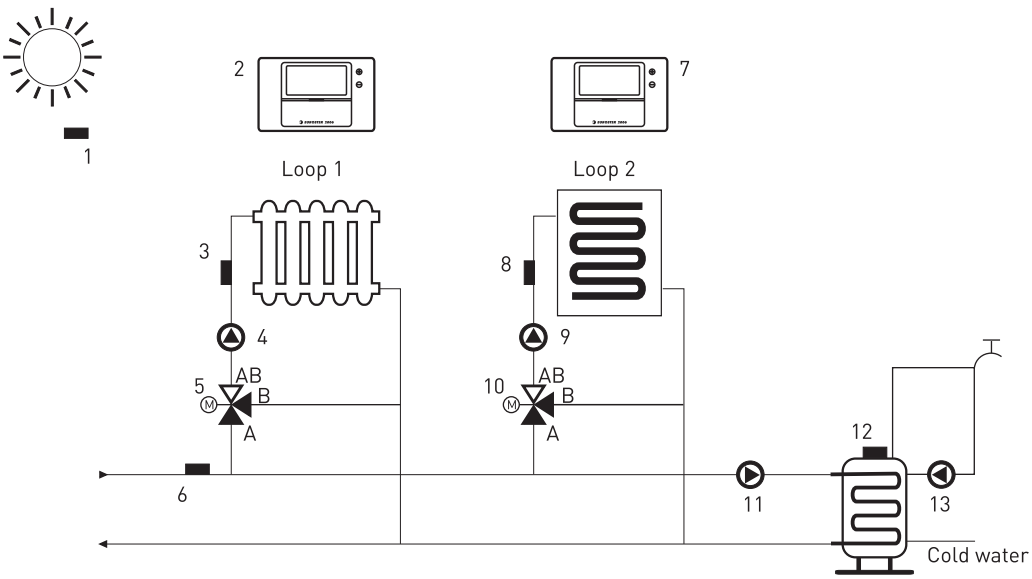
Cable length:
1. Outside temperature sensor - 5 m
2. Fireplace temperature sensor - 1,5 m
3. DHW temperature sensor - 2,5 m
4. Heat buffer temperature sensor - 2,5 m
5. Mixing valve temperature - 1,5 m
6. Heat exchanger temperature sensor - 1,5 m

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

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

LAYOUT "A"

- two CH loops with mixing valves (e.g. radiator loop and floor heating loop)
- one DHW loop
- one DHW circulation loop.



1. Outside temperature sensor
2. Loop 1 room thermostat
3. Loop 1 temperature sensor
4. Loop 1 CH pump
5. Loop 1 mixer
6. Supply temperature sensor
7. Loop 2 room thermostat
8. Loop 2 temperature sensor
9. Loop 2 CH pump
10. Loop 2 mixer
11. DHW tank pump
12. DHW tank temperature sensor
13. DHW circulation pump

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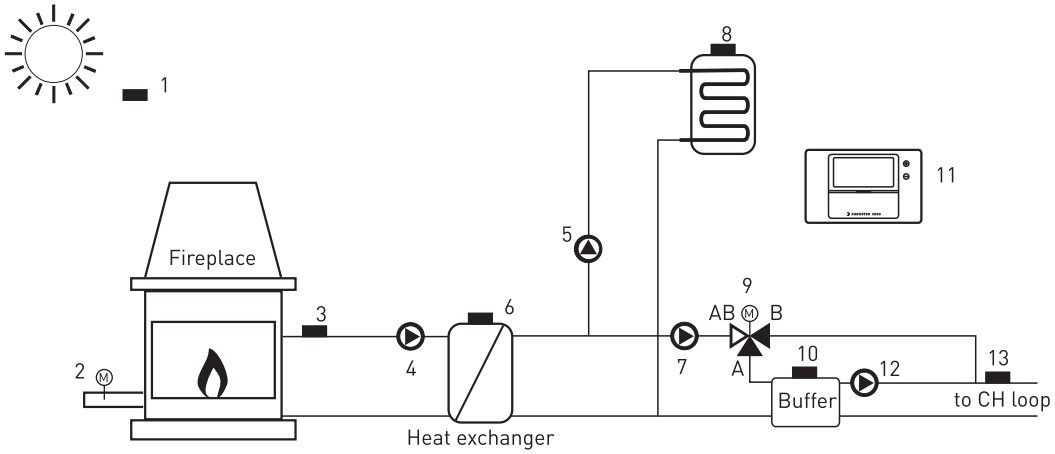
LAYOUT "B"

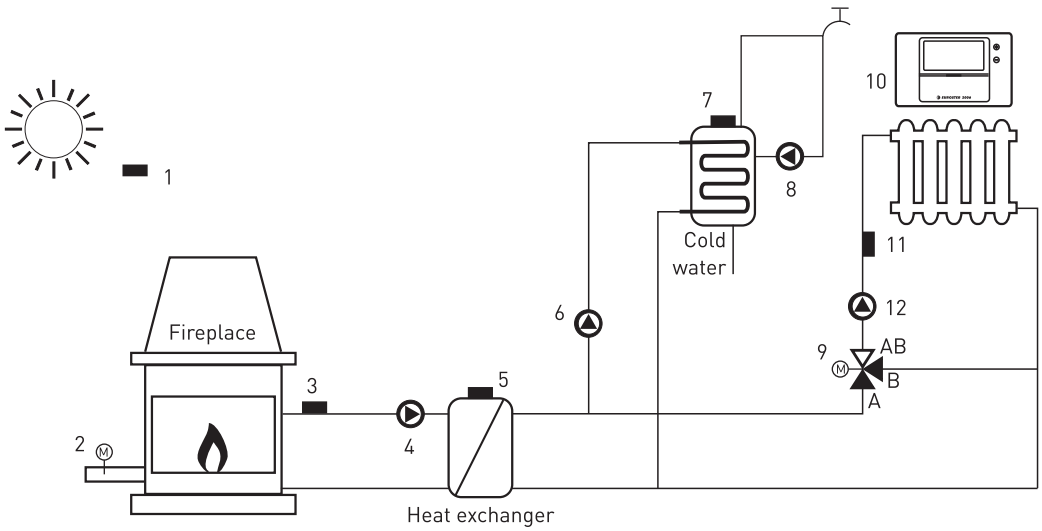
- one loop with heat buffer
- one DHW loop
- one water-jacket fireplace with air-throttle and heat exchanger
- an additional heat source (e.g. a gas-fired-boiler) to supply CH / DHW loops when the fireplace is put out



1. Outside temperature sensor
2. Air throttle
3. Fireplace temperature sensor
4. Heat exchanger pump
5. DHW tank pump
6. Exchanger temperature sensor
7. CH pump
8. DHW tank temperature sensor
9. Mixer
10. Buffer temperature sensor
11. Room thermostat
12. Buffer pump
13. CH temperature sensor

LAYOUT "C"

- one CH loop with mixing valve
- one DHW loop
- one water-jacket fireplace with air-throttle and heat exchanger
- an additional heat source (e.g. a gas-fired-boiler) to supply CH / DHW loops when the fireplace is put out or the UNI2 controller is turned off
- one DHW circulation loop



1. Outside temperature sensor
2. Air throttle
3. Fireplace temperature sensor
4. Heat exchanger pump
5. Exchanger temperature sensor
6. DHW tank pump
7. DHW tank temperature sensor
8. DWH circulation pump
9. Mixer
10. Room thermostat
11. CH temperature sensor
12. CH pump

The UNI2 controller may cooperate exclusively with ON/OFF air throttles equipped with 230 V 50 Hz actuators. In the event of a power cut the throttle should close automatically.

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ACCESSORIES

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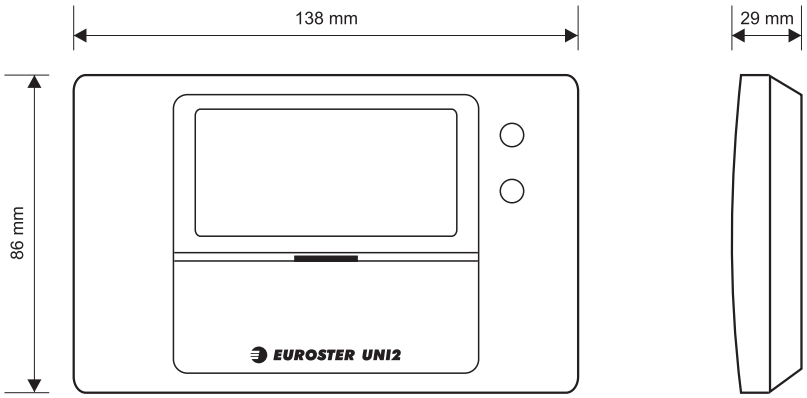
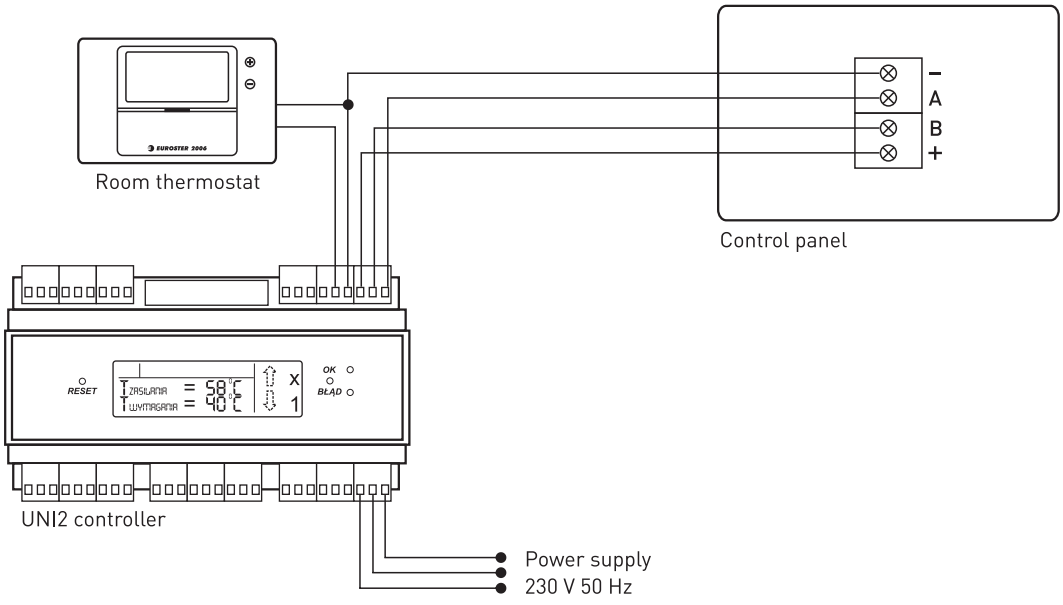
CONTROL PANEL eUNI2

UNI2 controller remote control panel

Wired remote control panel for the UNI2 controller. The panel may be installed in any place convenient for the user, e.g. next to a living room fireplace. The panel may be used to remotely read out parameters and modify controller settings (temperature presets).



CONNECTIONS



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