EUROSTER 1100K

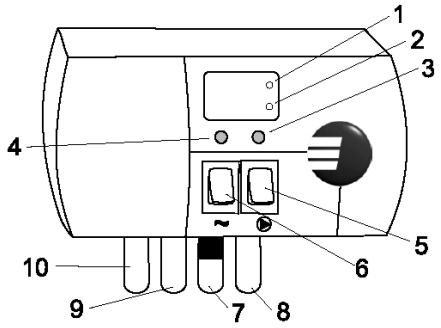
1. APPLICATION

Euroster 1100K is a processor-based electronic temperature controller designed for controlling the operation of hydronic heating fireplace system.
The unit has two outputs controlling:

1. circulating pump on the fireplace circuit
2. actuated valve or a second circulating pump for efficient operation in combination with the hydronic heating circuit.

The controller operates the circulating pump on the fireplace circuit and the valve or the second pump, depending on the water temperature.
The digital sensor measures the temperature of water on the fireplace circuit with optional splitting into two independent circuits.

EUROSTER 1100K is equipped with ANTISTOP system, to prevent seizure of pump rotor in idle periods. Throughout the non-heating season every fortnight the integral processor of EUROSTER 1100K will automatically cycle the pump for 30 seconds. For this function to be operational, the thermostatic controller must NOT be switched off at the end of the heating season.



1. Status indication – valve
2. Status indication – pump
3. Temperature setpoint for the pump, temperature adjustment – up
4. Temperature setpoint for the valve, temperature adjustment – down
5. On/off switch for continuous pump operation
6. On/off mains switch
7. Power supply to valve or pump, 230V AC
8. Temperature sensor
9. Power supply to pump, 230V AC
10. Power supply to controller unit, 230V AC

2. INSTALLATION

DANGER! Dangerous voltage is present both inside the enclosure and on the outgoing cables. Prior to installation by a qualified electrician make sure that the unit has been disconnected from power supply to avoid the risk of electric shock. Units with mechanical damage should not be installed.

a. mounting of the controller:

- the controller is fixed directly to the wall or to any other support with two screws (plastic plugs c/w screws are part of delivery)
- the cables extending from the controller are fixed to the wall with cable clips

b. mounting of the temperature sensor:

- **the sensor is NOT intended for immersion in liquids and installation on breechings (flues between the boiler and chimney)**
- install the heating water temperature sensor on the outside of the fireplace circuit or on the bare outlet pipe from the fireplace (as close to the fireplace as possible)
- secure the sensor on the pipe with the supplied fixing clip

c. connecting of the power supply cable to the pump:

- connect the yellow or yellow/green wire (protective conductor) to terminal (⏚)
- connect the blue wire to terminal (N)
- connect the brown wire to terminal (L)

d. connecting of the power supply cable to the valve (marked with a blue sleeve):

- connect the yellow or yellow/green wire (protective conductor) to terminal (⏚)
- connect the blue wire to terminal (N)
- connect the brown wire to terminal (L)

e. check-up of connections:

- make sure the connections have been made as indicated and secure the cover of the pump motor terminal box

f. connection of the controller:

- upon securing the cables against accidental pullout, **connect the power supply cable to a 230V/50Hz grounding socket.**

IMPORTANT: At the mounting location of the controller ambient temperature should not exceed 40ºC.

3. OPERATION

After switching on the controller allow ca. 30 sec. for the controller to become fully operational

a. start up:

- set the left-hand toggle switch (~) to position I,
- upon energising all the segments of the display light up for 2 seconds,
- the current temperature, as measured by the sensor is displayed and the controller operates according to the factory settings (temperature limits of 50°C).

b. description of display functions

- display continuously on – current temperature, as measured by the sensor,
- blinking display – temperature setpoint,
- red LED on – valve status
- green LED on – pump status

c. setting the temperatures

- setting the temperature for the valve: press the left-hand switch under the display – the figures will start blinking and the current setpoint will be displayed,
- use the right-hand and left-hand switches to increase/ decrease the displayed temperature setpoint, as appropriate,

- after ca. 4 sec. the display will stop blinking - this indicates that the preset temperature has been stored. The display will return to displaying the current temperature, as measured by the sensor.
- setting the temperature for the pump: press the right-hand switch under the display – the figures will start blinking and the current temperature setpoint will be displayed,
- use the right-hand and left-hand switches to increase/ decrease the displayed temperature setpoint, as appropriate,
- after ca. 4 sec. the display will stop blinking - this indicates that the preset temperature has been stored. The display will return to displaying the current temperature, as measured by the sensor.

d. automatic operation mode

- set the right hand switch (▸) to 0
- the controller will operate the pump and valve according to the temperature setpoint.
- in the hydronic heating system the pump is switched on when the temperature measured by the sensor has risen by 2°C above the setpoint and it is switched off when the temperature has dropped by 3°C below the setpoint.

e. continuous operation mode:

- set the toggle switches (~) and (▸) to position I,
- the pump is continuously on, irrespective of the selected operating mode (DHW/ heating), temperature setpoint and the current temperature, as measured by the sensor.

4. COMPLIANCE WITH STANDARDS AND CONFORMITY CERTIFICATES

EUROSTER 1100K is in compliance with the following EU directives: EMC, LVD
The CE certificate of conformity is posted on our website:
www.euroster.com.pl

5. DATA SHEET

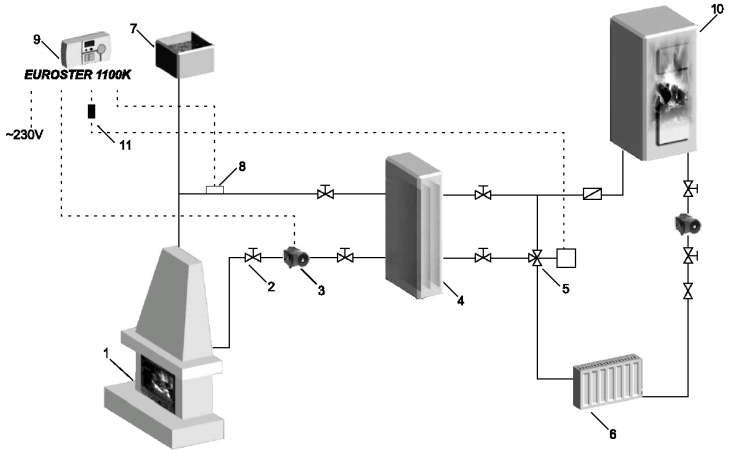
a.	temperature setting range	10°C – 80°C
b.	temperature measurement range	1°C – 99°C
c.	hysteresis (on / off difference)	5°C
d.	supply voltage	230V AC
e.	max. current	6A AC
f.	length of cables	1.5 m
g.	dimensions	145x72x45

6. SHIPPING LIST

a) controller and sensor
b) fixing clip
c) wall plugs
d) user manual
e) installation template

7. WIRING DIAGRAMS

These are simplified diagrams and as such they not show all the components necessary for fully functional operation of the system.



1. hydronic heating fireplace system
2. shutoff valve
3. heating water circulating pump
4. heat exchanger
5. valve or pump
6. heating unit - radiator
7. expansion vessel
8. temperature sensor
9. EUROSTER 1100K
10. heating boiler
11. cable marked with a sleeve