

DELTA 200 DUO

Pumps controller



DESCRIPTION OF A CONTROLLER

DELTA 200 DUO controller is designed for automatic switching on / off of two devices, depending on the temperature measured on the sensors. The main use is hydraulic systems with central heating circulation pump and with a domestic hot water heater charging pump (or circulation pump). The controller can also control two other receivers, the operation of which depends on the temperature level (min or max) achieved on sensors.

THE CONTROLLER HAS THE FOLLOWING FEATURES:

- temperature programming using buttons
- control of the central heating circulating pump operation and operation of the second pump (charging the domestic hot water heater or circulation pump)
- switching the continuous operation of the central heating
- function of protecting the system against freezing and overheating of the boiler
- damage indication of the temperature sensors
- ability to connect the remote control panel CONTROL with audible alarm function

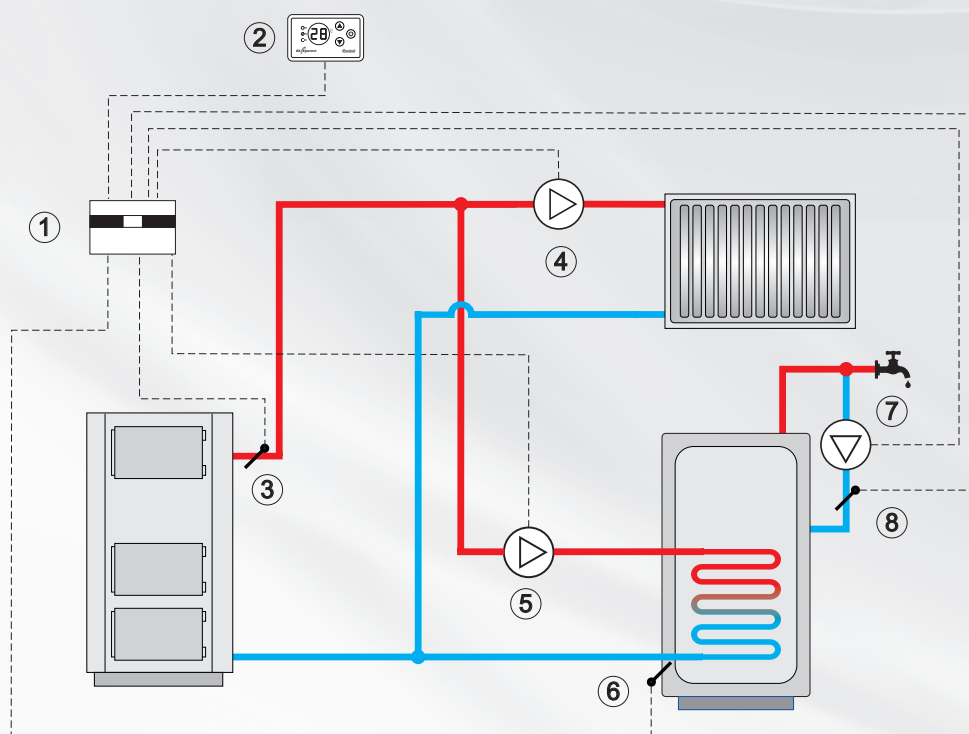
THE CONTROLLER MAY BE STARTED IN ONE OF THREE MODES DEPENDING ON THE NEEDS AND HYDRAULIC SYSTEM:

- in “**u1**” mode, the controller controls the pumps that work in a heating system in mutual dependence, taking into account, for example, conditions of DHW priority and minimum switching on temperature of domestic hot water pump
- in “**u2**” mode, the controller controls the pumps or other devices, whose work does not require mutual dependence or when it is simply not advisable
- in “**only central heating**” mode, the controller controls only one central heating pump



TECHNICAL DATA	DELTA 200 DUO
Range of measured temperature	from - 9 °C to + 99 °C
Range of temperature settings for a boiler	from + 10 °C to + 90 °C
Temperature setting range for the 2nd pump	from + 10 °C to + 90 °C
Allowable outputs load	central heating pump: 100 W / 230 V pump No. 2: 100 W / 230 V
Rated voltage	230 V, 50 Hz
Electric protection	2,5 A
Relative air humidity	< 95 %
Housing protection class	IP 40
Insulation class	II
Dimensions	145 x 90 x 45 mm
Ambient temperature	from 0 °C to + 40 °C

CONNECTION DIAGRAM OF THE CONTROLLER TO HEATING INSTALLATION



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|--|---|
| 1. DELTA 200 DUO controller | 6. DHW heater sensor |
| 2. CONTROL panel | 7. Circulation pump (as an option, instead of the DHW pump) |
| 3. Central heating boiler temperature sensor | 8. Circulation temperature sensor (as an option, instead of the DHW sensor) |
| 4. Central heating pump | |
| 5. DHW pump | |

Example of the heating installation diagram with a DELTA 200 DUO controller without the cutting off and protecting devices. It does not replace a professional project at the assembly spot.