

The controller for central heating system boilers with feeding screw

G-403-P02



APPLICATION

The G-403-P02 is a controller designed for central heating coal boilers with feeding screw. It stabilizes the temperature of water and controls process of combustion in the boiler preventing a fire from burning out.

The G-403-P02 is adapted for TS-35 rail assembly, it has specially designed casing making it possible to install the controller in many different positions on the boiler.

The G-403-P02 makes possible connection of the additional pump that controls heating in the hot water tank.

PROPERTIES

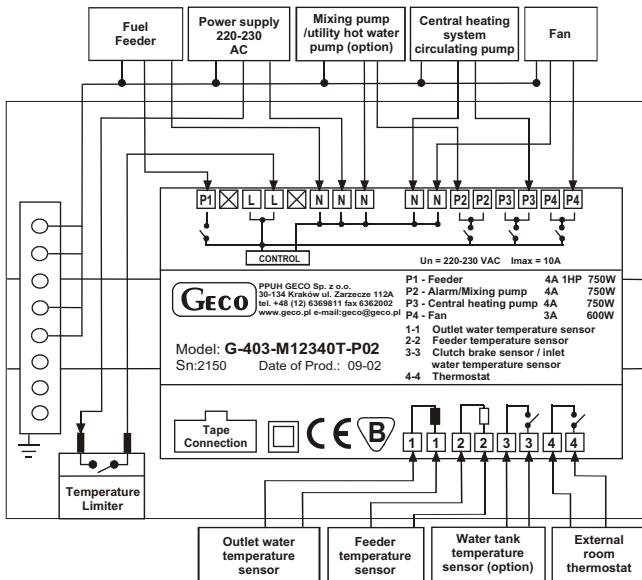
- Modern visualization of casing.
- Simple and user-friendly method of programming and service.
- Two-piece construction (executive module + keyboard)
- Possibility for direct connection of the equipment working under 230V voltage.
- Control over the hot water preparation system (it is possible to connect additional hot water pump or mixing pump)
- Control over the fan and over the work of the fuel feeder.
- Clutch cotter pin break sensor on the motoreducer (reed relay)
- Feeder temperature sensor (protection against fire back into the feeder).
- Sound signal for the alarm.
- Provides storage of all controller settings while loss of network power.
- This controller is able to cooperate with any other room thermostat.

TECHNICAL DATA

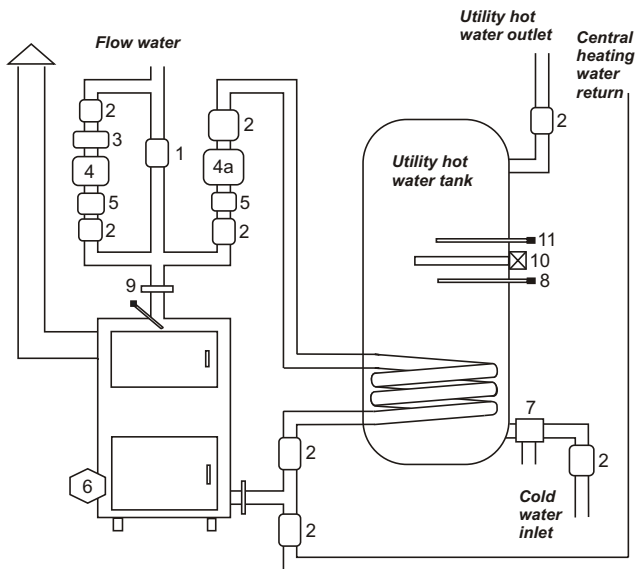
OUTPUT	RELAY	RECOMMENDED CONSTANT CARRYING COPACITY		
P1 - Fuel feeder	30A	4A	1HP	750W
P2 - Utility water pump	16A	4A	1HP	750W
P3 - C.H. Pump	16A	4A	1HP	750W
P4 - Fan	16A	3A	-	600W

Operating voltage	230V
Environment temperature	From +5°C to + 40°C
Relative humidity	20% ÷ 80% RH
Protection degree	IP65 from the front side of the control panel
Sensors type	NTC - range: from -40°C to +100°C

Diagram of connections



Hot Water Installation System



Legend:

1. Residual valve
2. Ball Cut-off valve
3. Check valve
4. Circulating pump
- 4a. Utility hot water tank supplying pump
5. Reticular filter
6. Boiler fan
7. Tank safety valve
8. Utility hot water temperature sensor of the G-403-P02 controller
9. Boiler hot water temperature sensor of the G-403-P02 controller
10. Tank electric heater
11. The temperature sensor of the tank electric heater

Set Includes

I. General equipment:

- 1 Executive module G-403-M12340T-P02
- 2 Control panel G-403-P02
- 3 Tape connecting the panel with the module
- 4 Outlet water temperature sensor CZT-CZ-OD-xxx
- 5 Measuring drain

II. Additional equipment:

- 1 Metal case
- 2 Hot water tank temperature sensor CZT-CZ-OD-xxx
- 3 Temperature delimiter
- 4 Measuring drain
- 5 Supplying wire

Controller description

The G-403-P02 controller was designed for central heating coal boilers with feeding screw.

Due to guarantee optimal controller and boiler operation, the G-403-P02 is equipped with two kinds of parameters, first one configured by the user and the second one by the boiler producer.

I User parameters available for users

Parameter	Description	Range	Producer Settings
U0	Temperature set on the boiler	Producer	45°C
U1	Time of the coal supply into the boiler.	15+240 s	5
U2	Stop time of the fuel feeder	5+180 s	5
U3	Time of the standstill.	5+250min	10
U4	Delay in turning off the fan during a stage of standstill.	5+250s	5

II Service parameters accessible for boiler manufacturer

Parameter	Description	Range	Producer Settings
C0	Time of fuel feeder rotation (if 0 than reed relay is not connected)	0+99 s	0 s
C1	Temperature sensor in the feeder 0 no sensor 1-sensor is available	0+1	1
C2	Time of operation of the feeder and the fan, when the user-preset backup waiting time is out.	5+240 s	5 s
C3	Waiting time for water temperature increase, when the controller checks if the boiler furnace has gone out	0+250 min	90 min
C4	Coefficient by which the time of the fan operation will be multiplied just after the controller goes into the backup state (standstill)	1+5	5
C5	Time after which the pump will start for 30 s when block by the room thermostat is on	0+99 min	1 min
C6	Additional pump control: 0 no pump 1 mixing pump 2 hot water pump	0+2	0
D0	Min .temperature on the boiler	30+50°C	40°C
D1	Max. temperature on the boiler	55+90°C	90°C
D2	Central heating pump start temperature	25+80°C	40°C
D3	Low hysteresis of the temperature	1+10°C	4°C
D4	Mixing pump or hot water pump start temperature.	35+55°C	40°C

Dealer

