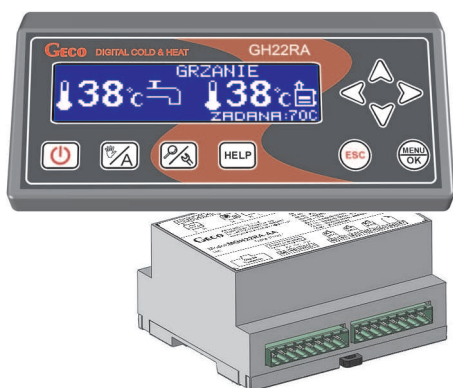


Controller for central heating boilers with feeder screw

GH22RA



APPLICATION

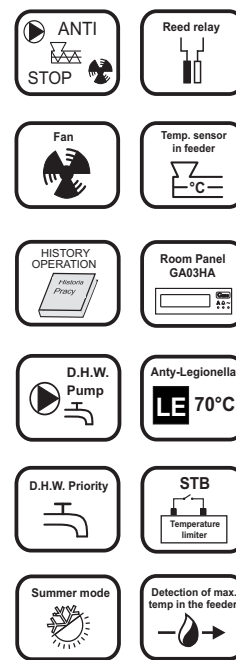
The GH22RA is a controller for central heating boilers with burners with feeder screw.

GH22RA allows the main heating circuit (central heating-CH) to operate. The controller also operates work of an additional pump. The function of this additional pump depends of which heating configuration is selected. The pump supervises the process of preparing domestic hot water (DHW) or executing mixing pump work.

The GH22RA controller has been fitted for full communication with the GA03HA room panel (manufactured by GECO) which allows boiler operation to be controlled comfortably from user's apartment.

PROPERTIES

- Functional visualisation of casing and large readable graphic LCD display;
- Two-module construction (module + panel) enable assembly inside boiler construction;
- Disinfection of the DHW circulation (Anti-Legionella function);
- HUW priority function and SUMMER mode;
- Anit-stagnation protection for the executive devices - ANTI STOP function;
- Possibility of adjusting individual hysteresis value (CH and DHW);
- Co-operation with room panel GA03HA (full control of boiler operation from apartment);
- Smooth control over fan rotations;
- Co-operation with reed relay (breaking cotter pin on the motor-reductor);
- Control temperature in the burner feeder;
- Possible to use temperature limiter STB for safety reason;
- Sound and text alarm signals;
- Many language versions and choose main screen function;
- Boiler operational parameters archiving function, among others alarm controller record;
- Additional relay, which protects fan and feeder output connectors when the triacs is closed and allows for emergency work when this is happend;
- Possibility of selecting type of controller regulation among others FIRE GRATE MODE;



INSTALATION ON THE BOILER

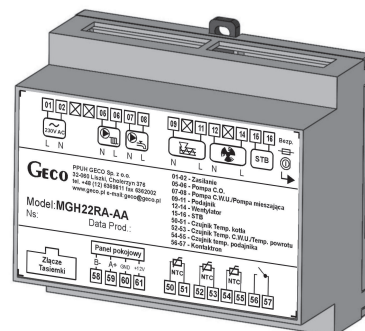
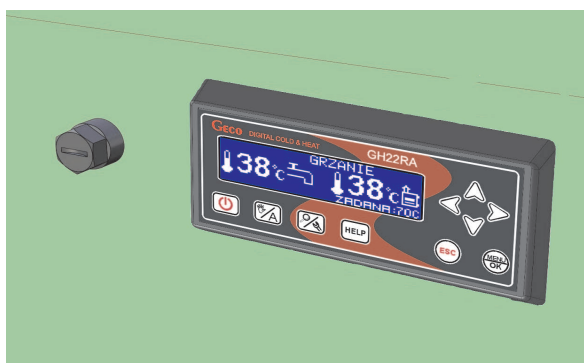
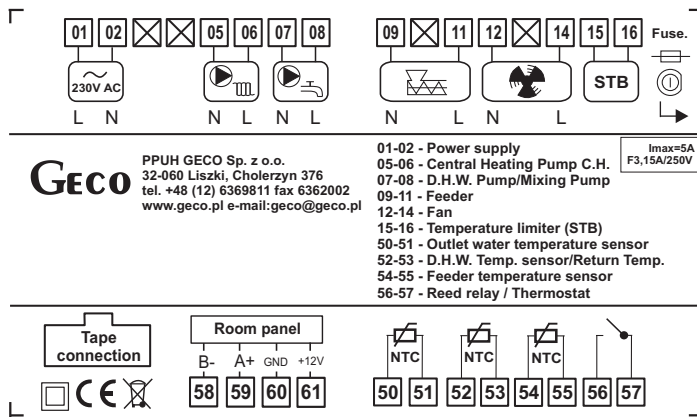


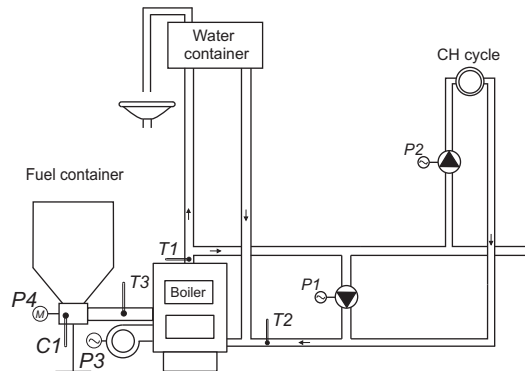
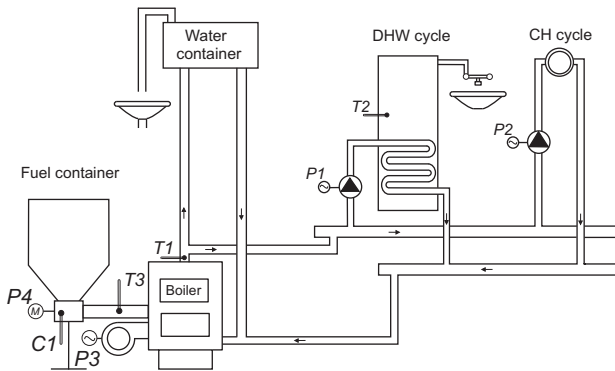
DIAGRAM OF CONNECTIONS



Outputs		Inputs	
01 L	Power 230V	50,51	Boiler temp. sensor
02 N	Power 230V	52,53	DHW temp/Return temp.
05 N	CH pump	54,55	Fuel feeder temperature
06 L	CH pump	56,57	Reed relay
07 N	DHW/Mix pump	58	B-
08 L	DHW/Mix pump	59	A+
09 N	Fuel feeder	60	GND ⊥
11 L	Fuel feeder	61	+12 V DC
12 N	Fan		
14 L	Fan		
15	Temp. limiter (STB)		
16	Temp. limiter (STB)		

Panel pokojowy GA03HA

THE CONTROL OF HEATING SYSTEM



Controls		Sensors	
P1	DHW pump	T1	Boiler temperature
P2	CH pump	T2	DHW temperature
P3	Fan	T3	Feeder temperature
P4	Feeder	C1	Reed relay

Controls		Sensors	
P1	Return pump	T1	Boiler temperature
P2	CH pump	T2	Return temperature
P3	Fan	T3	Feeder temperature
P4	Fuel Feeder	C1	Reed relay

TECHNICAL DATA

Power supply voltage	230V AC +10%/-15%
Fan and feeder protection	3,15A
Working temperature	od +5°C do +40°C
Relative humidity	20% + 80% RH
Sensor type	NTC - zakres: od 0°C do +100°C

Temp. sensor (NTC) 2,2 kΩ	
°C	Ω
0	7174,89
10	4374,83
20	2747,10
30	1774,91
40	1172,09
50	795,08
60	547,95
70	384,62
80	275,86
90	202,37
100	149,16

Output	Constant load	
Fuel feeder	1A	250W
CH pump	1A	250W
HUW pump	1A	250W
Fan	1A	250W

GH22RA equipment	
Standard equipment:	
1) boiler temperature sensor	
2) fuel feeder temperature sensor	
Optional equipment:	
1) DHW temperature sensor	
2) reed relay	
3) GA03HA room panel	
4) temperature limiter STB	
5) supply wires	
Controls:	
1) fuel feeder	
2) CH pump	
3) DHW pump	
4) fan	

GH22RA

GH22RA

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