

The controller for central heating boilers with piston feeder **GH11TA**



APPLICATION

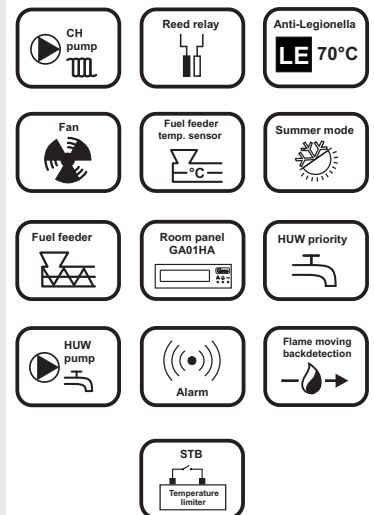
The GH11TA is a controller for central heating boilers with burners with piston feeder.

The GH11TA supervises the process of preparing hot utility water (HUW cycle), and allows to operate main heating circuit (central heating - CH cycle).

The GH11TA controller has been fitted for full communication with the GA01HA room panel (manufactured by GECO) which allows to control boiler operation comfortably from user's apartment.

PROPERTIES

- modern and functional visualisation of casing
- four-section display of the LED type
- single-module construction enables comfortable installation on the boiler
- cooperation with the HUW pump (Hot Utility Water)
- disinfection of the HUW cycle (Anti-Legionella function)
- HUW priority function
- cooperation with room panel (control boiler operation from user's apartment)
- SUMMER mode
- smooth control over fan rotations
- new algorithm allows to give equal portions of fuel with the possibility of division the entire dose into smaller portions
- detection of maximum temperature in the burner feeder (flame moving back protection for the feeder)
- build-in temperature limiter STB
- sound signal of the alarms



INSTALATION ON THE BOILER

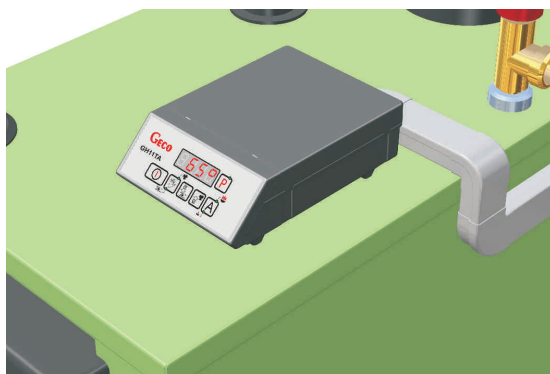


DIAGRAM OF CONNECTIONS

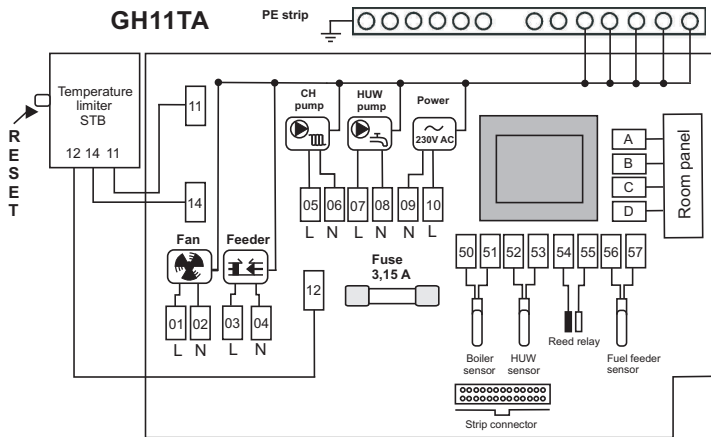
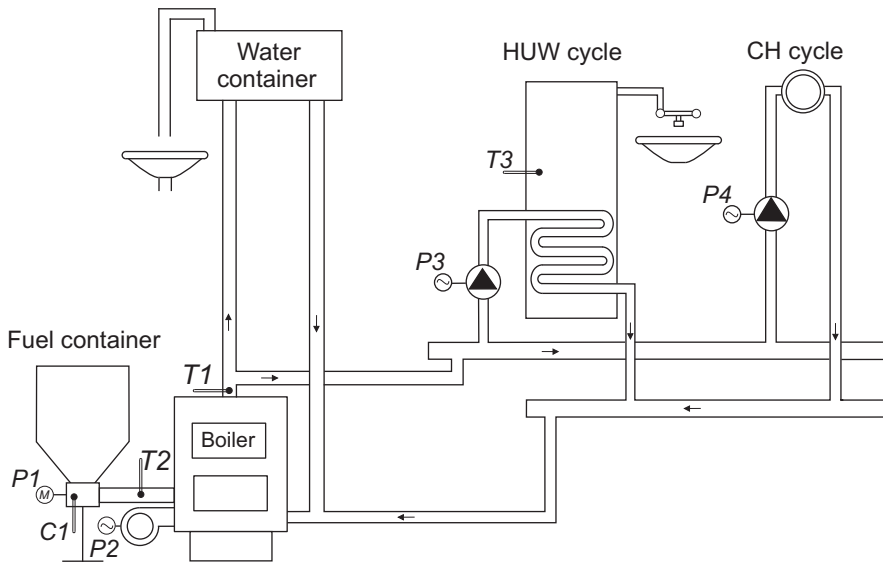


Diagram of electric connections

Outputs		Inputs	
01 L	Fan	50,51	Boiler temperature
02 N	Fan	52,53	HUW temperature
03 L	Fuel feeder	54,55	Fuel feeder temp. sensor
04 N	Fuel Feeder	56,57	Reed Relay
05 L	CH pump	D	+12 V DC
06 N	CH pump	C	GND ⊥
07 L	HUW pump	B	RS-A
08 N	HUW pump	A	RS-B
09 N	Power 230V		
10 L	Power 230V		

Room panel GA01HA

THE CONTROL AND HEATING SYSTEM



Controls

- P1 Fuel feeder
- P2 Fan
- P3 HUW pump
- P4 CH pump

Sensors

- T1 Boiler temperature
- T2 Feeder temperature
- T3 HUW temperature
- C1 Reed relay

TECHNICAL DATA

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

Output	Constant load	
Fuel feeder	2A	400W
CH pump	1A	200W
HUW pump	1A	200W
Fan	1A	200W

Temp. sensor (NTC) 2,2 kΩ	
°C	kΩ
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

GH11TA equipment

Standard equipment:

- 1) boiler temperature sensor
- 2) fuel feeder temperature sensor
- 3) reed relay

Optional equipment:

- 1) HUW temperature sensor

Controls:

- 1) fuel feeder
- 2) CH pump
- 3) HUW pump
- 4) fan