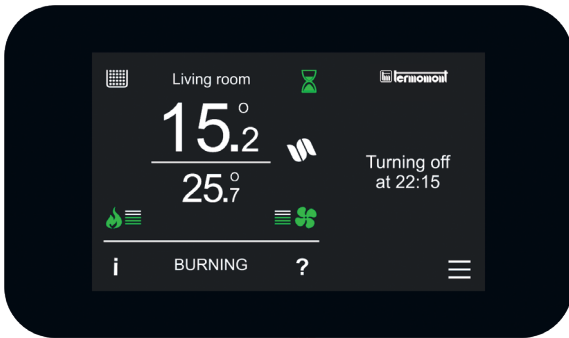
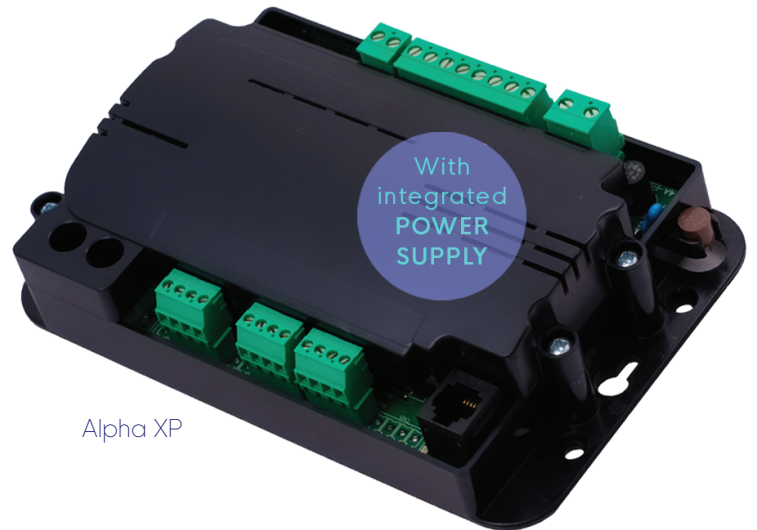


Fumis Alpha XP

THE MOST POWERFUL CONTROLLER IN THE ALPHA SERIES, DESIGNED FOR DEMANDING HEATING APPLIANCES.



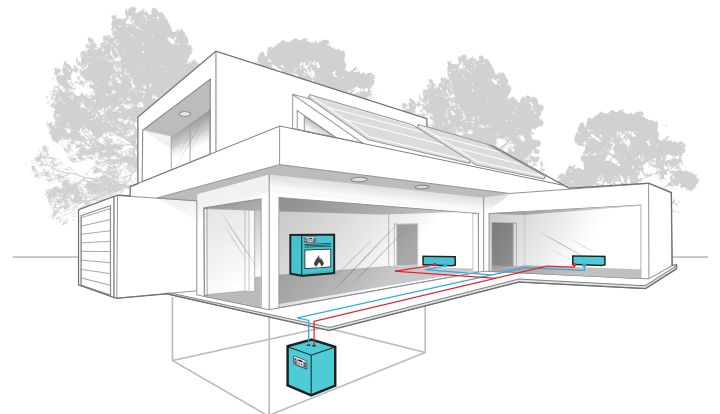
Sense 32 / 43 — Landscape



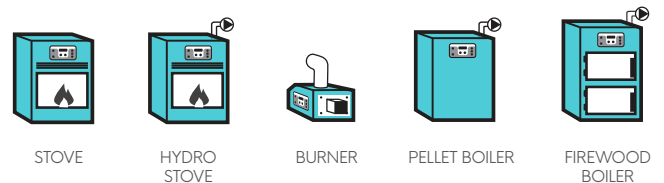
Alpha XP

Key benefits

- 100 % operating autonomy
- Optimum combustion
- Integrated full-power supply for high-demand interfaces
- Simplified setup
- Lower fuel consumption heating costs
- Lower CO and particle emissions

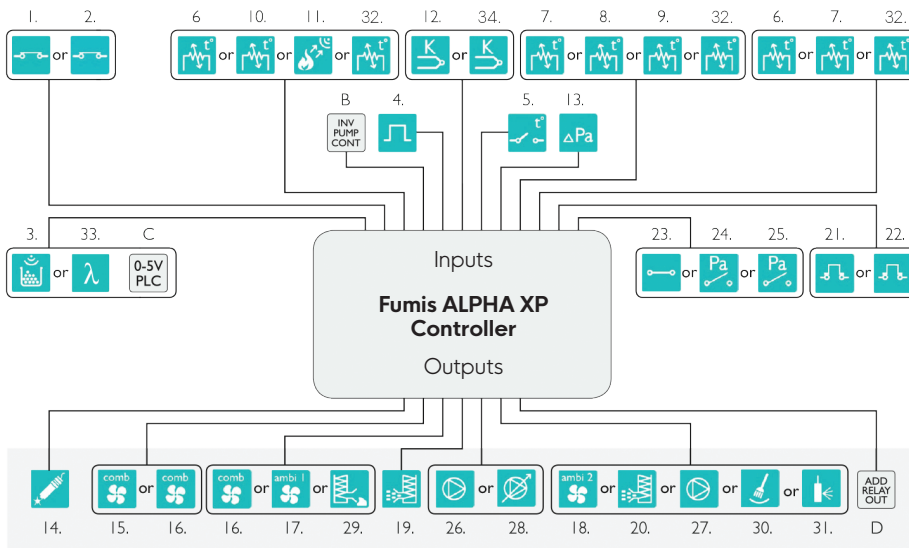


Fumis Alpha XP — a superior solution for combustion control in stoves, burners, and boilers.



The most advanced controller in the Alpha series, Fumis Alpha XP is a superior solution for combustion control in stoves, burners, and boilers. It delivers exceptional processing power, reliability, and an integrated power supply to support even the most demanding interface configurations.

Its user-friendly design, unique autonomy prediction, and fully customizable operation logic help manufacturers optimize efficiency, reduce emissions, and save fuel—regardless of fuel quality or installation conditions. Alpha XP also reduces costs across the product lifecycle, including R&D, production, logistics, and installation, making it an ideal choice for manufacturers seeking high performance and market differentiation.



Inputs and outputs:

1. Door open switch
2. Pellets level sensor (capacitive switch)
3. LevelTronic
4. Hall speed sensor
5. External thermostat
6. Water temp. sensor (NTC)
7. Air temp. sensor (NTC)
8. Back water temp. sensor (NTC)
9. Secondary room temp. sensor (NTC)
10. Accumulator temp. sensor (NTC)
11. Flame detection sensor
12. Flue gas temp. sensor
13. Air flow sensor (Tube connection)
14. Igniter (max. 450W)
15. Fan 1 as primary Combustion fan
16. Fan 2 as chimney fan or secondary comb. fan
17. Fan 2 as ambient fan
18. Fan 3 as secondary room fan
19. Pellets feeder 1
20. Pellets feeder 2
21. Safety temperature limiter (water) STB
22. Safety temperature limiter (pellets) STB
23. Additional safety switch
24. Air under pressure safety switch
25. Water pressure safety switch
26. Water pump
27. Back water pump (By-pass)
28. Modulated water pump (inverter pump)
29. Ash extraction auger
30. Mechanical chamber cleaning
31. Air pulse cleaning
32. Pellet temp. sensor (NTC)
33. LambdaTronic
34. Chamber temp. sensor (K-Type)
- A. Inverted pump contact
- B. External power setting
- C. Additional relay output

Configurations:

1. Basic Pellet Stove
2. Pellet Stove with 2nd Ambient Fan
3. Water Stove with automatic chamber cleaning
4. Basic Pellet Boiler
5. Pellet Boiler with automatic chamber cleaning
6. Pellet Boiler with Back Water management
7. Pellet Boiler with automatic combustion chamber and ash extraction
8. Basic Pellet Burner
9. Pellet Burner with water pump management and compressed air cleaning
10. Basic Firewood Boiler
11. Combined Boiler (Firewood/pellets) with automatic chamber cleaning
12. Firewood boiler with back water management
13. Customized config. (i.e. Bakery oven burner)

Options:

1. LambdaTronic universal lambda modul
2. Fumis LINK Wireless access point
3. Fumis Premium touch screen user interface
4. Fumis IR-RC remote control unit
5. LevelTronic biomass level sensor
6. Fumis Relay artificial load with integrated relay
7. Quick Pro field programming unit
8. Fumis mobile APP (for iOS or Android)



	ALPHA XP 60/70	ALPHA XP 65/75
Description:	Biomass combustion control electronics.	Biomass combustion control electronics With integrated airflow sensor
Technical characteristics:	<ul style="list-style-type: none"> • 5 multifunction triac outputs 240 V AC 1 A • 1 relay output 240 V AC 3 A (700 W) • 1 modulated water pump output 10 V 15 mA • 2 multifunction inputs NTC 10 kOHM (water/air temperature sensors) • 2 thermocouple inputs type K (flue gas temperature sensors) • 1 multifunction temperature input (NTC 10 k flame presence sensor) • 2 multifunction sensor inputs (fan speed and pellet level sensor) • 2 multifunction digital inputs (external thermostat, open door) 240 V AC 500 μA • 2 safety inputs (safety temperature switch – STB, pressure safety switch) 240 V AC 500 μA • RJ45 connector for serial communication • relay output 240 V AC 1 A 240 W (7th output, only on Alpha XP 70/75) 	<ul style="list-style-type: none"> • 5 multifunction triac outputs 240 V AC 1 A • 1 relay output 240 V AC 3 A (700 W) • 1 modulated water pump output 10 V 15 mA • 2 multifunction inputs NTC 10 kOHM (water/air temperature sensors) • 2 thermocouple inputs type K (flue gas temperature sensors) • 1 multifunction temperature input (NTC 10 k flame presence sensor) • 2 multifunction sensor inputs (fan speed and pellet level sensor) • 2 multifunction digital inputs (external thermostat, open door) 240 V AC 500 μA • 2 safety inputs (safety temperature switch – STB, pressure safety switch) 240 V AC 500 μA • RJ45 connector for serial communication • relay output 240 V AC 1 A 240 W (7th output, only on Alpha XP 70/75)
Functionalities:	<ul style="list-style-type: none"> • Weekly programme • serial communication port • "Fire-memory" • autonomy indication • combined fuel operation firewood/pellets • water pump control (ON/OFF or modulated) 	As ALPHA XP 60 but with integrated airflow sensor.
User interface:	LED display with touchscreen keyboard, fully powered by the controller. Compatible with all interface types, including Fumis Sense, Fumis Core, and Fumis Premium.	
Power supply:	230 V AC, 50–60 Hz (optional 115 V AC)	
Dimensions:	Controller: 134 x 100 x 38, Controller in plastic BOX: 170 x 108 x 43. User interface: 120 x 63 x 16.	
Mounting:	Controller: on plastic stand-offs or in plastic box. User interface: panel mount.	

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