

CE



Heating controller Elfatherm E8

- // For weather-dependent boiler, mixer circuit and hot-water control
- // Illuminated display with multilingual plain-text display for all parameters
- // Clearly structured menus to simplify programming
- // Year clock with automatic summertime/wintertime switchover
- // Sensor inputs can be set for 1 kOhm PTC or 5 kOhm NTC sensors
- // Circulation pump controlled by time, temperature or pulse
- // Simple single-dial operation
- // Automatic configuration of operating modes
- // One outdoor sensor for up to six controllers
- // Connection of up to 2 remote controls
- // Dedicated electrical connections
- // PC connection using an optical interface for adjustment and monitoring
- // Integrated test functions



Application

Elfatherm E8 is a digital heating controller, which is primarily designed for installation in a heating boiler.

In addition to the weather-dependent control of the boiler (single or dual stage) and the heating circuits, it naturally also controls the hot-water supply.

The Elfatherm E8 series has a maximum of 11 output relays. In addition to a two-stage boiler, two mixed heating circuits and the hot-water feed pump, this allows two auxiliary relays to be used for individual purposes.

The E8 also has the appropriate control algorithms for special applications, such as fixed value control or swimming pool water heating. A whole host of functionalities can be assigned to the two auxiliary relays.

For example, they can be controlled by a time program or be dependent on the temperature using an appropriate sensor input. If they are used to control a circulation pump a "tapping recognition system" is also possible.

The clear parameter structure, the display illumination and the 14-character text display enable the system to be programmed quickly and easily.

To ensure downwards compatibility either 1 kOhm PTC or 5 kOhm NTC sensors can be used.

In addition to the standard versions, bespoke solutions are also possible.

E8.0231 for two-stage boiler and hot-water control,

E8.0321 for boiler, mixer and hot-water control,

E8.0631 for two-stage boilers, two mixer circuits and hot-water control,

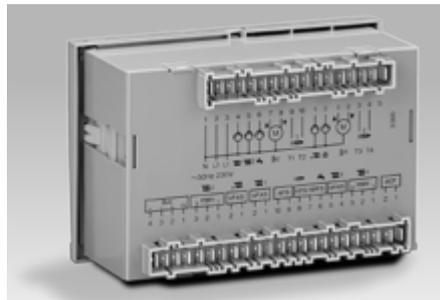
E8.1111 for one or two mixer circuits.



Simple operation using incremental sensor and confirm key



Back-lit display with plain-text display

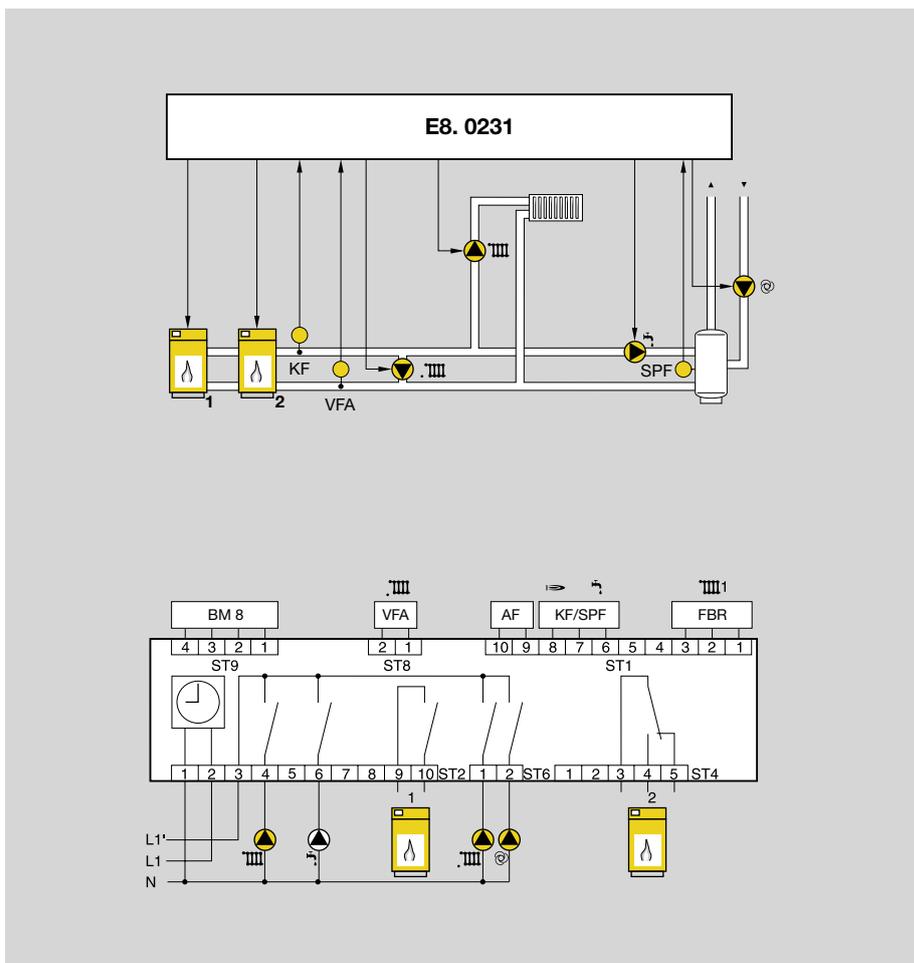


Non-interchangeable connections thanks to coded Rast5 terminals

Application examples

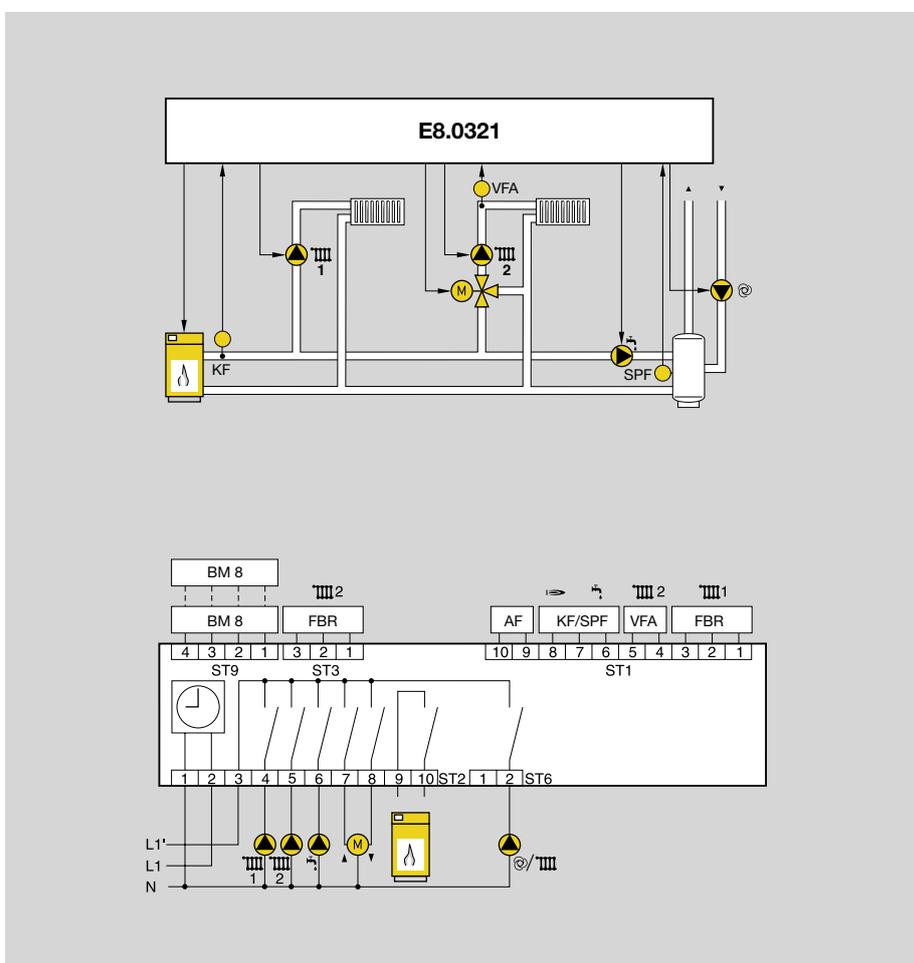
Elfatherm E8.0231

The heating controller E8.0231 is suitable for single-circuit heating systems with one or two-stage burners with or without hot-water control. The flow temperature is controlled by switching the burner and the heating pump on and off. The controller can be equipped both with the analogue remote control FBR or with the digital operation-control module BM 8.



Elfatherm E8.0321

The heating controller E8.0321 controls heating systems with two separate heating circuits. The two flow temperatures are controlled independently, heating circuit 1 (direct circuit) by switching the burner and the circulation pump, and heating circuit 2 using a motorised adjustable mixer. Independent time programs are available for both heating circuits. Each heating circuit can be equipped with an analogue or digital remote control.

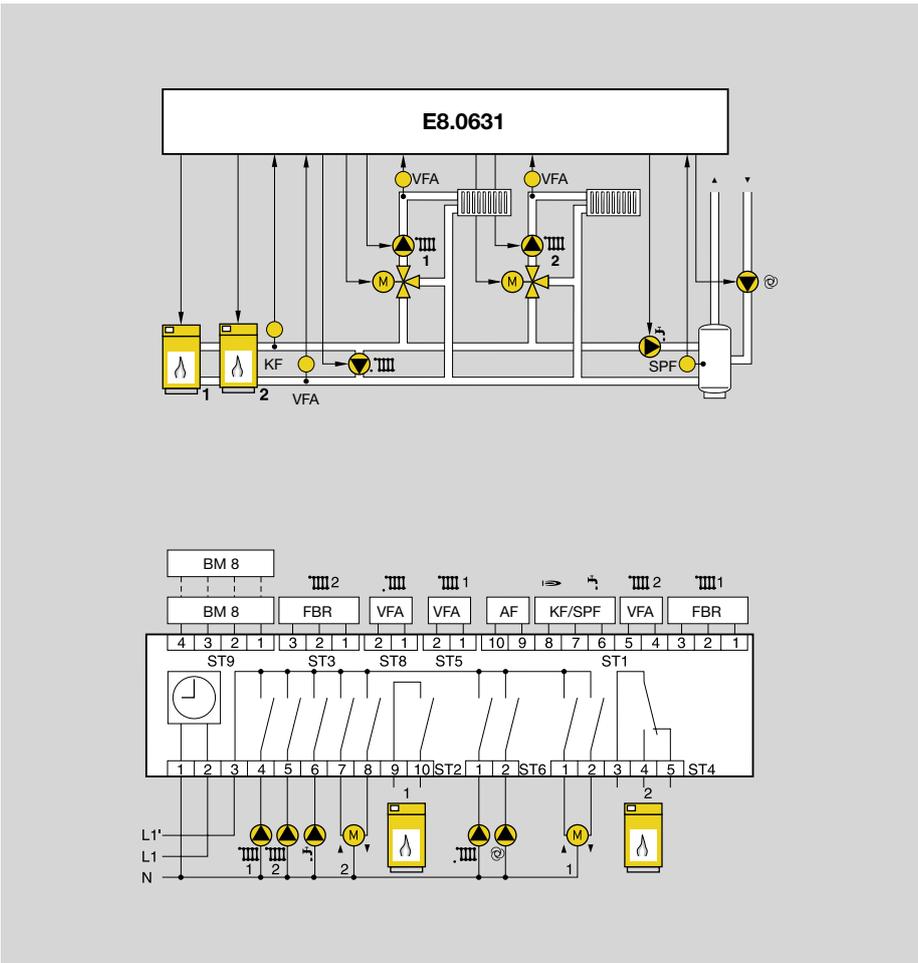


Elfatherm E8.0631

The heating controller E8.0631 is suitable for controlling systems with two-stage burners or two boilers. In addition two heating circuits with motorised adjustable mixers can be controlled. The boiler temperature is controlled dependent on both heating circuits, whilst the differential between the boiler temperature and the flow temperatures for the heating circuits can be adjusted between 5 K and 20 K. Both heating circuits have separate time programs and can be controlled separately by two analogue or digital remote controls.

Option

If a storage tank sensor is connected, the hot-water temperature on all the versions can be controlled by switching the feed pump after it is released by the timer program. Another timer channel switches the circulation pump independently of the enable times of the hot-water program.

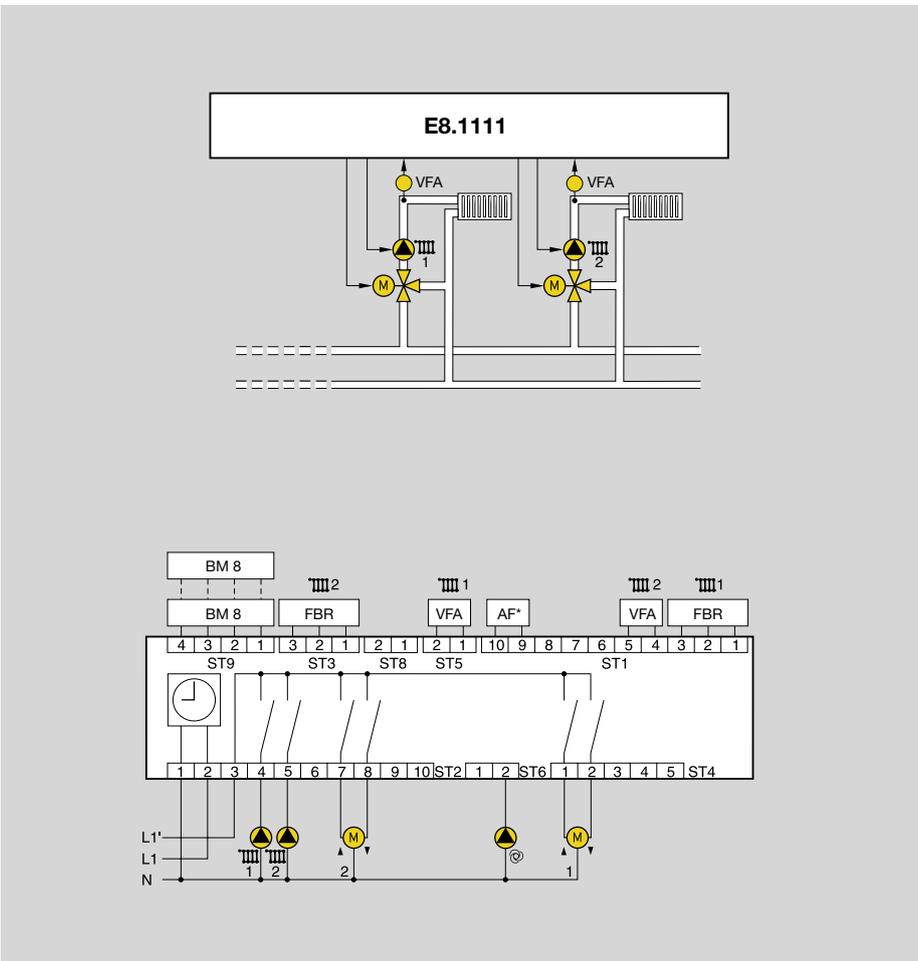


Elfatherm E8.1111 (expansion module)

The functions of the E8 series can be expanded to up to 15 mixer circuits using the E8.1111 expansion module. The E8.1111 modules are connected to a heating controller (for example the E8.0631) using a communication interface.

Each E8.1111 expansion module can control a maximum of two independent mixer circuits.

* The E8.1111 can be used as an independent mixer circuit controller without being connected to other E8 units. An outdoor sensor must be connected for this purpose.



Technical data

Supply voltage pursuant to IEC 38:
230 V AC, -/+ 10%, 50/60 Hz.
Switching capacity of the relays:
2 (2) A, 250 V AC.
Inherent consumption: Approx. 8 VA.
Power reserve of the timer:
Min. 10 hours.
Enclosure: IP 40 pursuant to DIN 40 050.
Safety class: II, safety extra low voltage
pursuant to VDE 0100.
Ambient temperature: 0 to 60°C.
Storage temperature: -30 to 60°C.
Permitted burst voltage coupling to sensor
or mains cables: Max. 4 kV.
Weight: Approx. 750 g.

Version

Built-in housing 144 x 96 mm.
Connection system:
Coded pin trays, RAST 5 system, either
counter plugs as screw terminal or with
insulation-piercing terminals.

Certification

EMC conditions pursuant to EN 50081
and EN 50082.
The units comply with the EMC and Low
Voltage Directives.



Selection

E8.02: Burner control, hot-water generation, two-stage burners

E8.03: Burner control, hot-water generation, 1 mixer circuit

E8.06: Burner control, hot-water generation, two-stage burners, 2 mixer circuits

E8.11: 2 mixer circuits

Order example

E8.0321

| | 0 | 1 | 2 | 3 | 0 | 1 | 2 |
|--|---|---|---|---|---|---|---|
| E8.02 | ○ | | | ● | ○ | ● | ○ |
| E8.03 | ○ | | ● | | ○ | ● | ○ |
| E8.06 | ○ | | | ● | ○ | ● | ○ |
| E8.11 | ○ | ● | | | ○ | ● | ○ |
| Type = E8 | | | | | | | |
| Without auxiliary relay = 0 | | | | | | | |
| Time-controlled = 1 | | | | | | | |
| Time or temperature-controlled (configuration via sensor connection) = 2 | | | | | | | |
| Time and temperature-controlled = 3 | | | | | | | |
| Without interface = 0 | | | | | | | |
| CAN = 1 | | | | | | | |
| eBus = 2 | | | | | | | |

● = standard

○ = available

Detailed information on this product

www.comfort-controls.com

Contact www.kromschroeder.com →information→contacts

We reserve the right to make technical changes designed to improve our products without prior notice.

Kromschroder uses environment-friendly production methods. Please send away for our Environment Report.

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