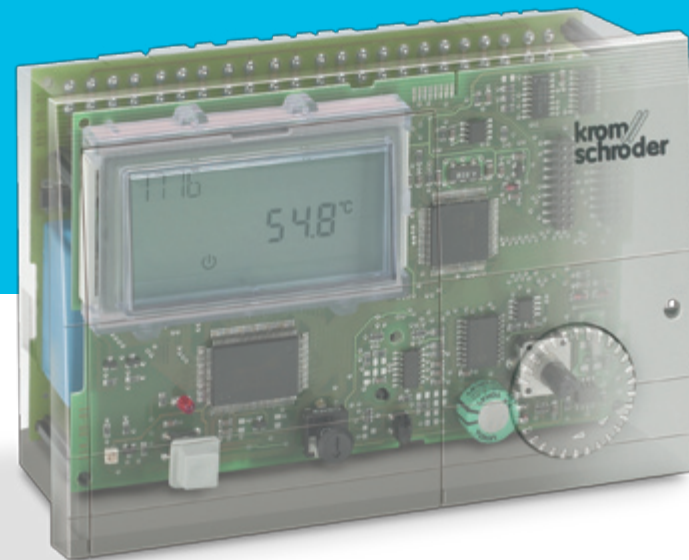


# Heating controller Elfatherm E8

Product brochure · GB  
10.1.2.18 Edition 02.07



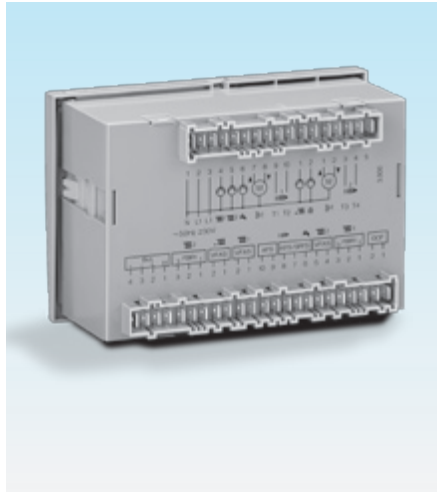
krom  
schroder

- 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
- Simple single-dial operation
- Automatic configuration
- 2 additional multi-function relays (solar system, return temperature increase, circulation amongst others)
- eBUS interface for automatic burner control unit or DCF radio clock module
- PC connection using an optical interface or CAN bus for adjustment and monitoring
- Integrated test functions





Elfatherm E8



Non-interchangeable connections thanks to coded Rast5 terminals.



Simple operation using incremental sensor and confirm key.  
Back-lit display with plain-text display.

## 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.

### eBus interface

- for modulating and switching automatic burner control units (FA)
- DCF receiver  
The controller can evaluate an eBUS DCF receiver connected to the eBUS FA terminals.

### The Elfatherm E8 Series offers a great number of additional control algorithms

- Fixed value control
- Swimming pool control
- 2nd hot-water generation circuit
- Return temperature increase (three-point)

### Other functions can be assigned

- Floor pavement drying function
- Calendar function with automatic summertime/wintertime switchover
- Cooling function
- Time master function
- Hot-water boiler function
- Operation without burner (solar or solid fuel)
- Operating mode of heating circuit pumps can be selected
- Heating/Reduction optimisation
- Adjustable hot-water hysteresis
- Up to 3 hot-water temperature setpoints can be selected
- Up to 3 room temperature setpoints can be selected

### 2 auxiliary relays can be used for individual tasks such as

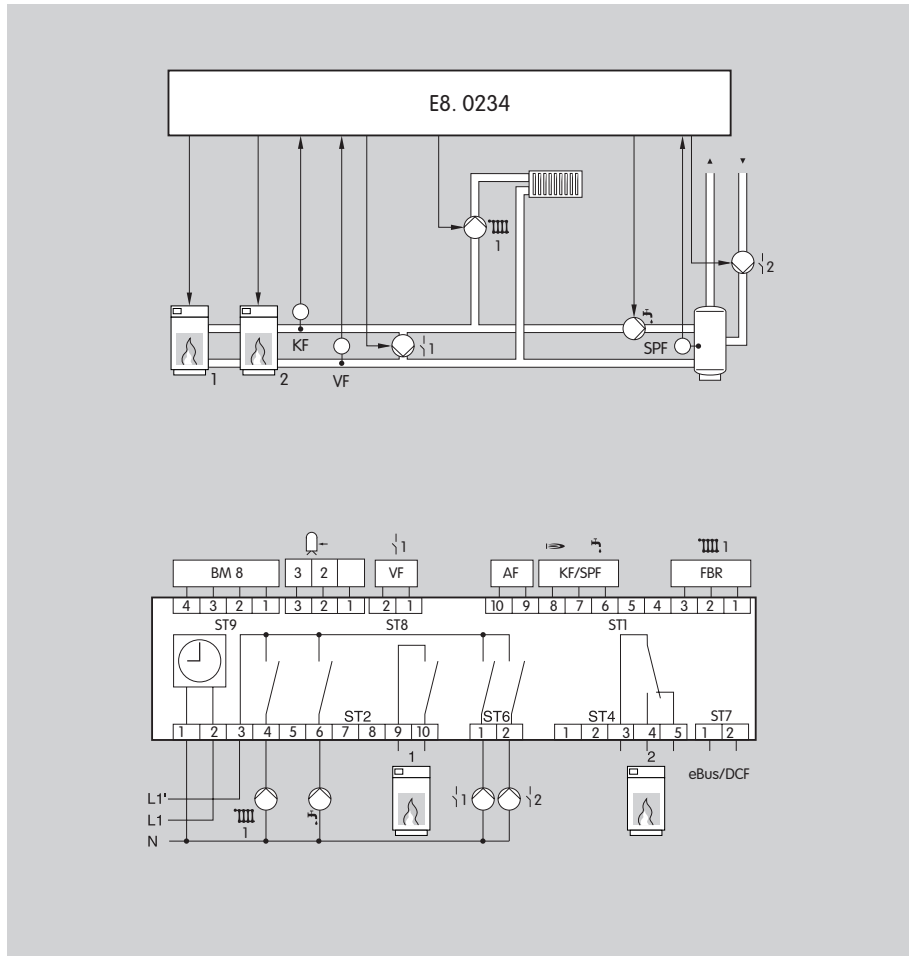
- Return temperature increase
- Integration of a solid fuel boiler
- Solar control
- Header pump
- Circulation pump (temperature, pulse, time)
- Boiler pump
- Hot-water generation using 2 sensors

To ensure downwards compatibility with E6 controllers either 1 k $\Omega$  PTC or 5 k $\Omega$  NTC sensors can be used.

E8.0234 for two-stage boiler and hot-water control,  
E8.0324 for boiler, mixer and hot-water control,  
E8.0634 for two-stage boilers, two mixer circuits and hot-water control,  
E8.1124 for one or two mixer circuits.

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

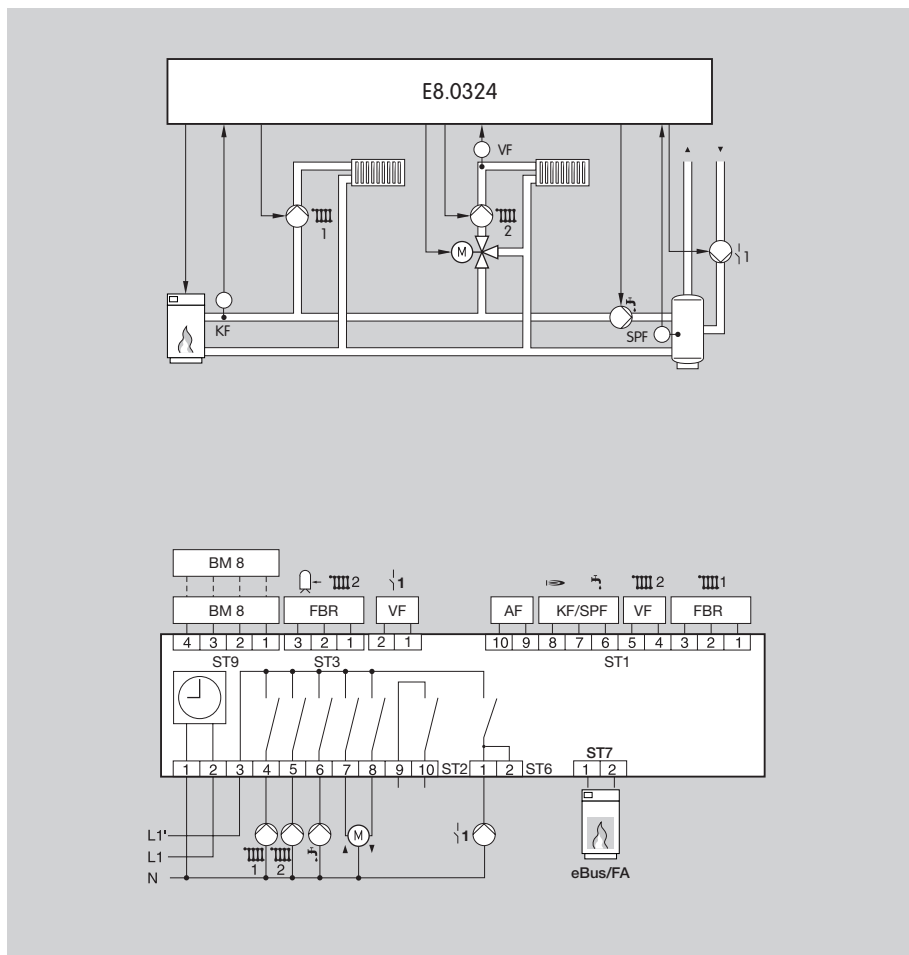
Application examples



**Elfatherm E8.0234**

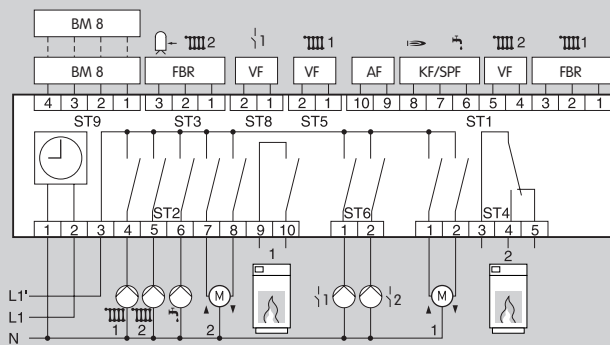
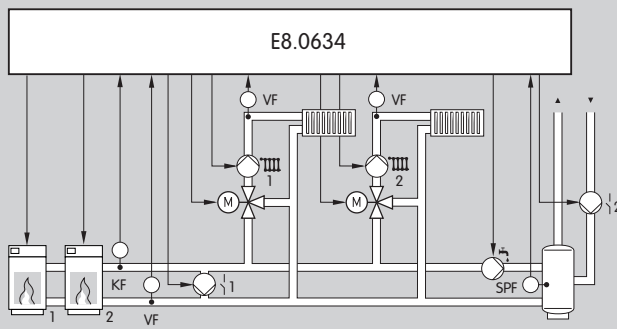
The heating controller E8.0234 is suitable for single-circuit heating systems with one or two-stage burners with or without hot-water control. The flow temperature is controlled by switching the burner and the heating pump on and off. The controller can be equipped both with the analogue remote control FBR or with the digital operation-control modules BM 8 and Merlin BM.

In addition, a DCF module can be connected using the eBUS interface.



**Elfatherm E8.0324**

The heating controller E8.0324 controls heating systems with two separate heating circuits. The two flow temperatures are controlled independently, heating circuit 1 (direct circuit) by modulating the burner and switching 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.

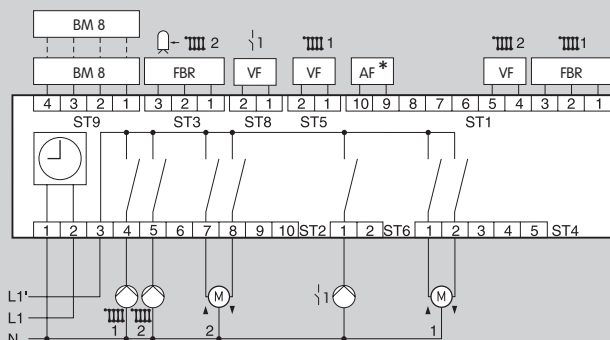
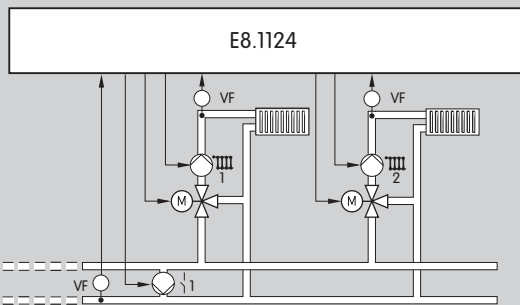


### Elfatherm E8.0634

The heating controller E8.0634 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.

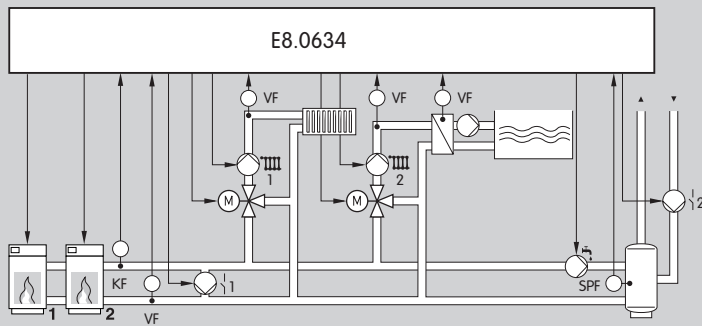


### Elfatherm E8.1124 (expansion module)

The functions of the E8 series can be expanded to up to 15 mixer circuits using the E8.1124 expansion module. The E8.1124 modules are connected to a heating controller (for example the E8.0634) using a communication interface.

Each E8.1124 expansion module can control a maximum of two independent mixer circuits.

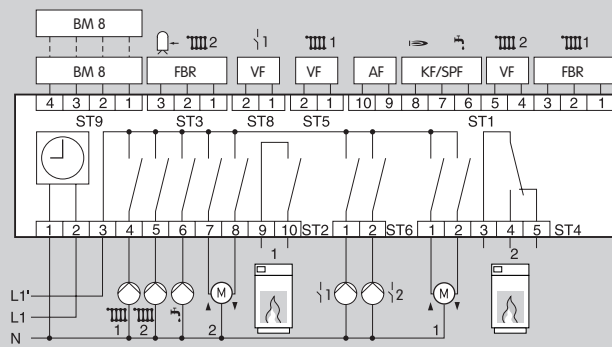
- \* The E8.1124 can be used as an independent mixer circuit controller without being connected to other E8 units. An outdoor sensor must be connected for this purpose.



### Elfatherm E8.0634

(with swimming pool control)

The heating controller E8.0634 is suitable for controlling systems with two-stage burners or two boilers. In addition, a heating circuit with motorised mixer and a swimming pool heating circuit can be controlled. Mixer 2 controls the flow temperature of the swimming pool heat exchanger via a motorised mixer. The swimming pool temperature sensor is connected to the room sensor for heating circuit 2. Three hot-water temperature set-points for the chosen heating program can be selected.



## Selection

	0	2	3	0	1	2	4
E8.02	○		●	○	○	○	●
<b>E8.03</b>	○	●		○	○	○	●
E8.06	○		●	○	○	○	●
E8.11	○	●		○		○	●

● = standard, ○ = available

### Order example

**E8.0324**

### Type code

Code	Description
E8	Heating controller
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
0	Without auxiliary relay
2	Time or temperature-controlled
3	Time and temperature-controlled
0	Without interface
1	CAN
2	eBus
4	CAN + eBUS

## 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 EN 60529.

Safety class: Safety class: II to EN 60730.

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 Volt-  
age Directives.



## Detailed information on this product

[www.docuthek.com](http://www.docuthek.com)

## Contact

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