



CE



System controller E8.5064 for cascade control, heating boilers with solar, buffer and pellet control

- // Modulating cascade controller with solar control
- // Switching cascade controller with solar control
- // Modulating heating controller for 0 – 10 V
- // Switching heating controller for pellet boiler and buffer control
- // Various heat generators (oil, gas and pellet boilers)
- // Heat generators with buffer and solar control
- // Solar systems with heating support via buffer storage



System controller E8.5064.

Application

The text-based display guides the user through the setting levels, making it easy to configure this controller's extensive functions.

In addition to the weather-dependent control of the boiler, boiler cascade and heating circuits, it also controls the sanitary hot-water supply.

Configuration takes place simply via system selection. Parameters are automatically pre-configured by the system selection.

One-, two- or multi-stage boilers (up to 8 boilers / 16 stages) can be controlled as primary heat generators.

A multi-stage modulating cascade can also be activated either via a CAN bus, E bus, OpenTherm bus or 0 – 10 V output.

Communication with the expansion modules via the CAN bus is supported for up to 16 heating circuits. Each heating circuit can be remote controlled by a selection of different operation-control modules. This is also possible in wireless form if a Merlin radio master is connected.

Using the extended solar function, the user can choose between different solar systems, number of collectors, e.g. east/west-facing roofs, type of storage tank charging and the functionality of the solar pump. The solar pump is activated by an electronic relay, enabling the speed of the collector pump to be controlled.

Swimming pool control, return temperature increase with 3-point control, fixed value control, additional hot-water storage tanks or header pump can be allocated in addition to the standard functions for the heating circuits.

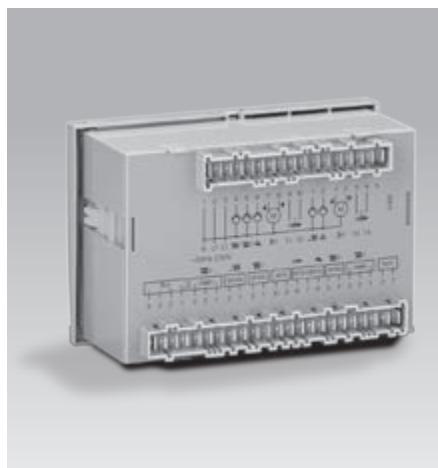
The system controller E8.5064 supports remote servicing and setting by PC using „Coco PC active“ and modem.



Simple operation using incremental sensor and confirm key.

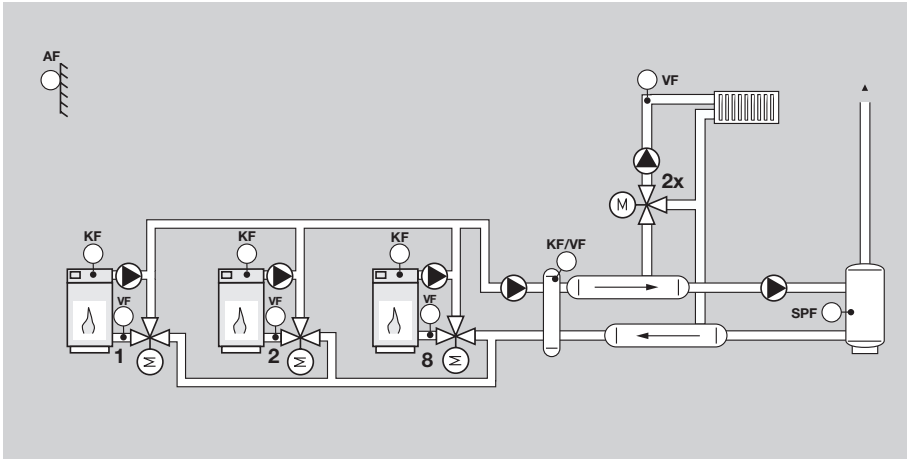


Back-lit display with plain-text display.



Non-interchangeable connections thanks to coded Rast5 terminals.

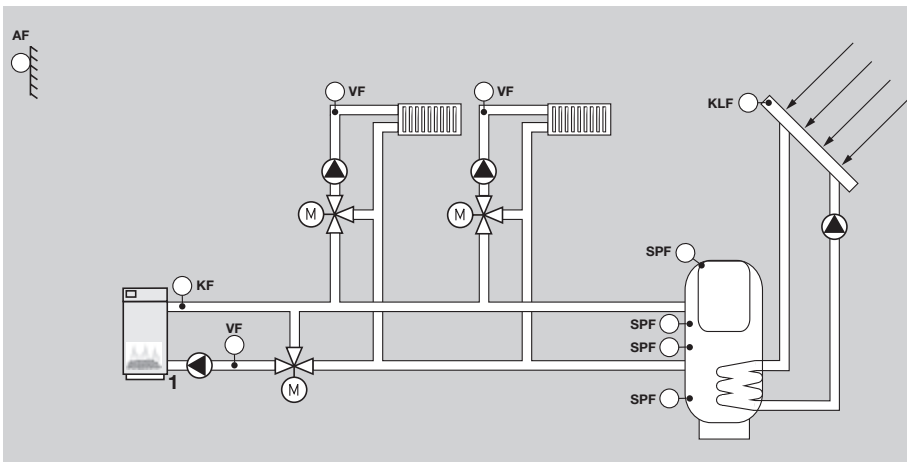
Application examples



Weather and/or room temperature-dependent cascade control

Boiler and header temperature regulated by switching burners. Flow temperatures of heating circuits regulated via motorised adjustable mixers. Suitable for systems with up to eight boilers or eight boilers with two-stage burners.

Switching heating boilers must be equipped with boiler module KM3. Modulating heating boilers must be fitted with a modulating burner control unit or a boiler module.

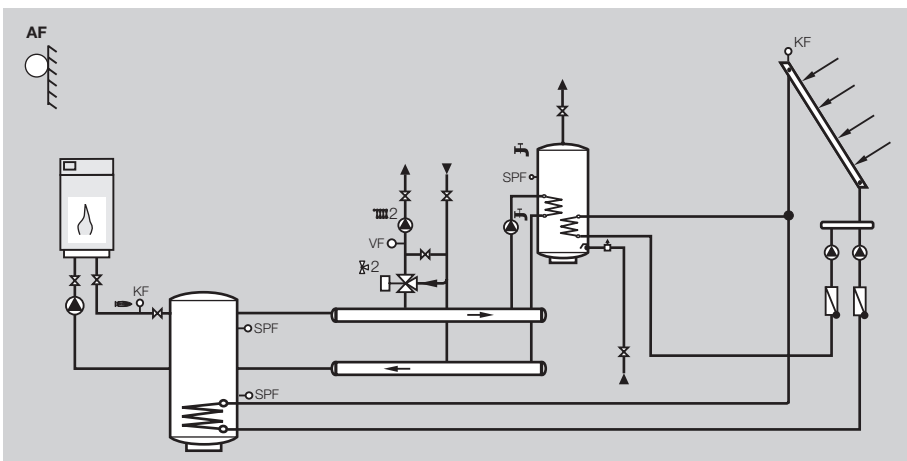


Solid fuel boiler with buffer storage

Weather and/or room temperature-dependent heating control.

Hot-water temperature regulated by switching feed pump.

Flow temperature regulated via motorised adjustable mixers.

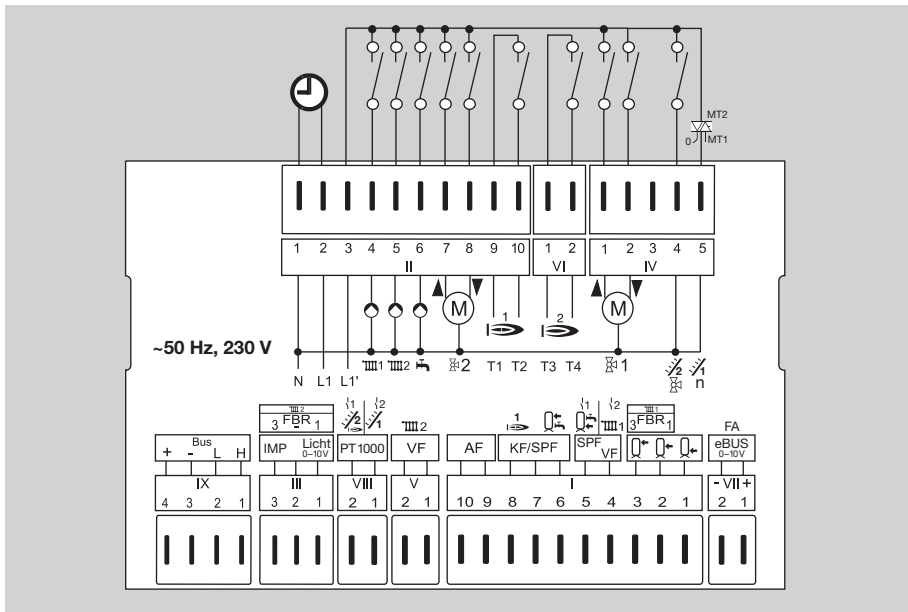


Oil and gas boilers with buffer storage and solar control

Weather and/or room temperature-dependent heating control.

The solar system is used primarily for hot-water generation and, additionally, for the heating system. The solar pump is activated by an electronic relay, enabling the speed of the collector pump to be controlled.

Wiring diagram



Technical data

Supply voltage pursuant to IEC 38:
230 V AC, +/- 10%, 50/60 Hz.
Switching capacity of relays: 2 (2) A,
250 V AC.
Switching capacity of electr. relays: 1 A,
250 V AC.
Power 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 × 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.



Detailed information on this product

www.comfort-controls.com

Contact www.kromschroeder.com → Information → Contacts

We reserve the right to make technical modifications in the interests of progress.

The hydraulic diagrams contained in this brochure are principle sketches. They are descriptive in nature and in no way replace proper system planning. For this reason we cannot guarantee function if a system is built on the basis of these diagrams..

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

G. Kromschroder AG
Comfort Controls
Kuhbrückenstraße 2-4
31785 Hameln
Tel. ++49 (0) 51 51/95 72-0
Fax ++49 (0) 51 51/95 72-100
vertrieb.cc@kromschroeder.com