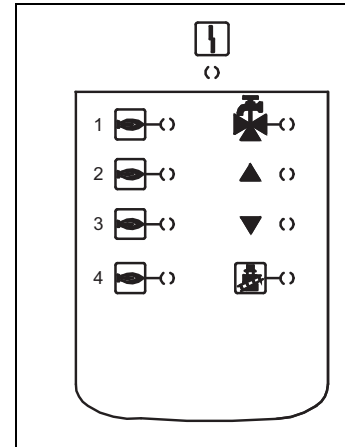
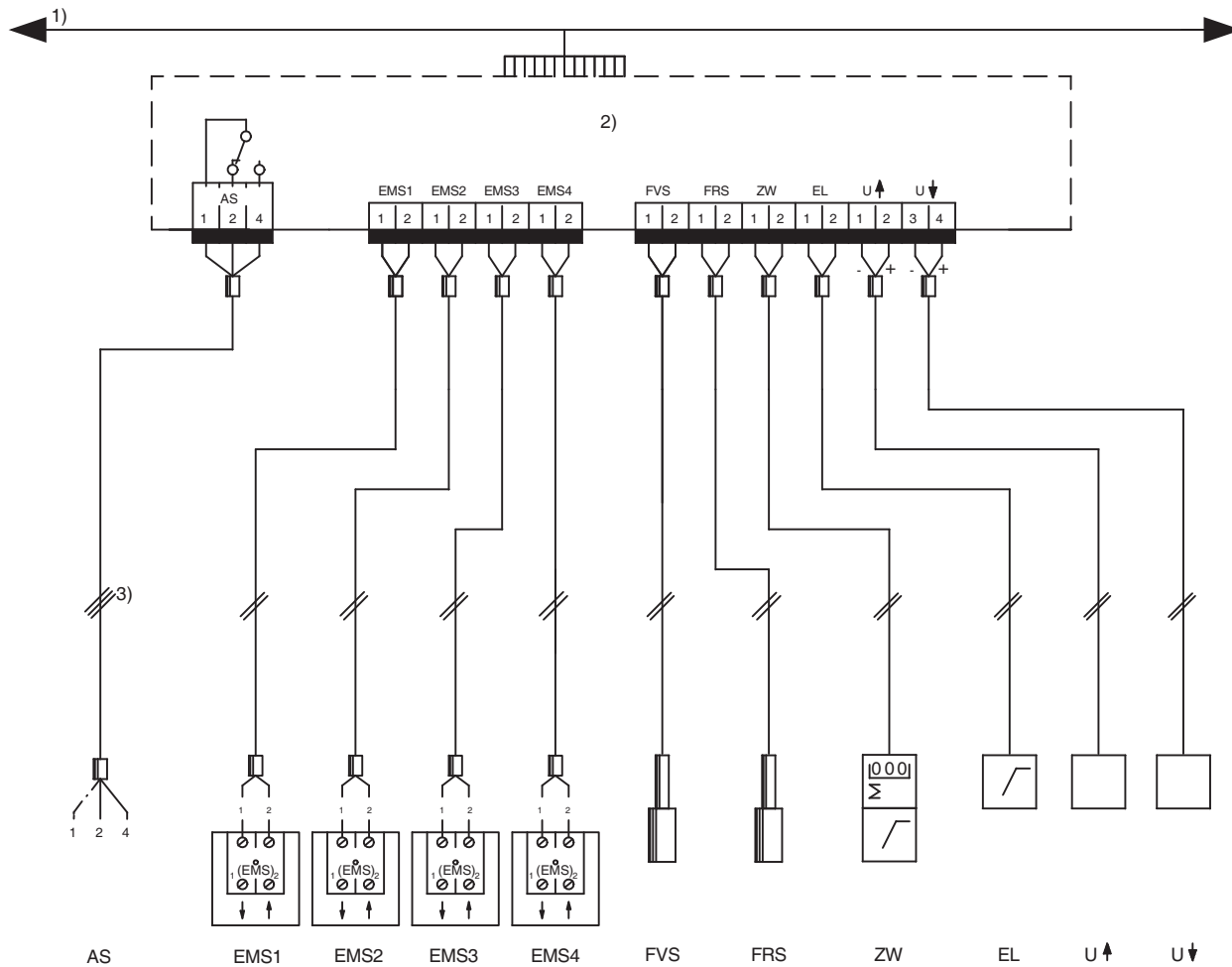


Module - front view



- ▶ Electrical work may only be carried out by a qualified electrician.
- ▶ Carry out electrical work in accordance with the current standards and local regulations.
- ▶ Install mains connection so that it is fixed and in the correct phase.
- ▶ Ensure that the total current does not exceed the rating stated on the data plate.
- ▶ Ensure that a circuit breaker in accordance with applicable standards is present to disconnect all poles from the mains power supply. If there is no circuit breaker present, you must install one.
- ▶ Do not use the yellow/green earth lead as a control cable.
- ▶ Before opening the control unit, isolate all poles of the heating system via the circuit breaker. Secure against unintentional reconnection.
- ▶ Fasten the wires of each electrical cable to each other (e.g. with cable ties) or strip the cable sheath short, to prevent the risk of voltage flashes between 230 V and low voltage through unintentional loosening of a wire at the terminals.
- ▶ Observe the safety instructions in the documentation of the control unit and the modules used.

- Control voltage 230 V
AWG 14, max. 5 A
- Low voltage
0.4 mm² - 0.75 mm² / AWG 18

- 1) Internal BUS in the control unit
- 2) Strategy module FM458/CMC930
- 3) H03xx, 1.5 mm²

AS Output for centralised fault message
max. breaking capacity 230 V, 8 A
min breaking capacity 5 VDC, 10 mA

EL External load limit input
potential-free contact, connectable

EMS1 Heat source; boiler 1

EMS2 Heat source; boiler 2

EMS3 Heat source; boiler 3

EMS4 Heat source; boiler 4

FA Outside temperature sensor

FK Boiler water temperature sensor

FRS System return temperature sensor

FVS System flow temperature sensor

PK Boiler circuit pump (triggering via 230 V); connection of boiler circuit pump GB312 to MC10 (not via CFB 930)

SR Return temperature actuator (heating circuit 1 - 3)

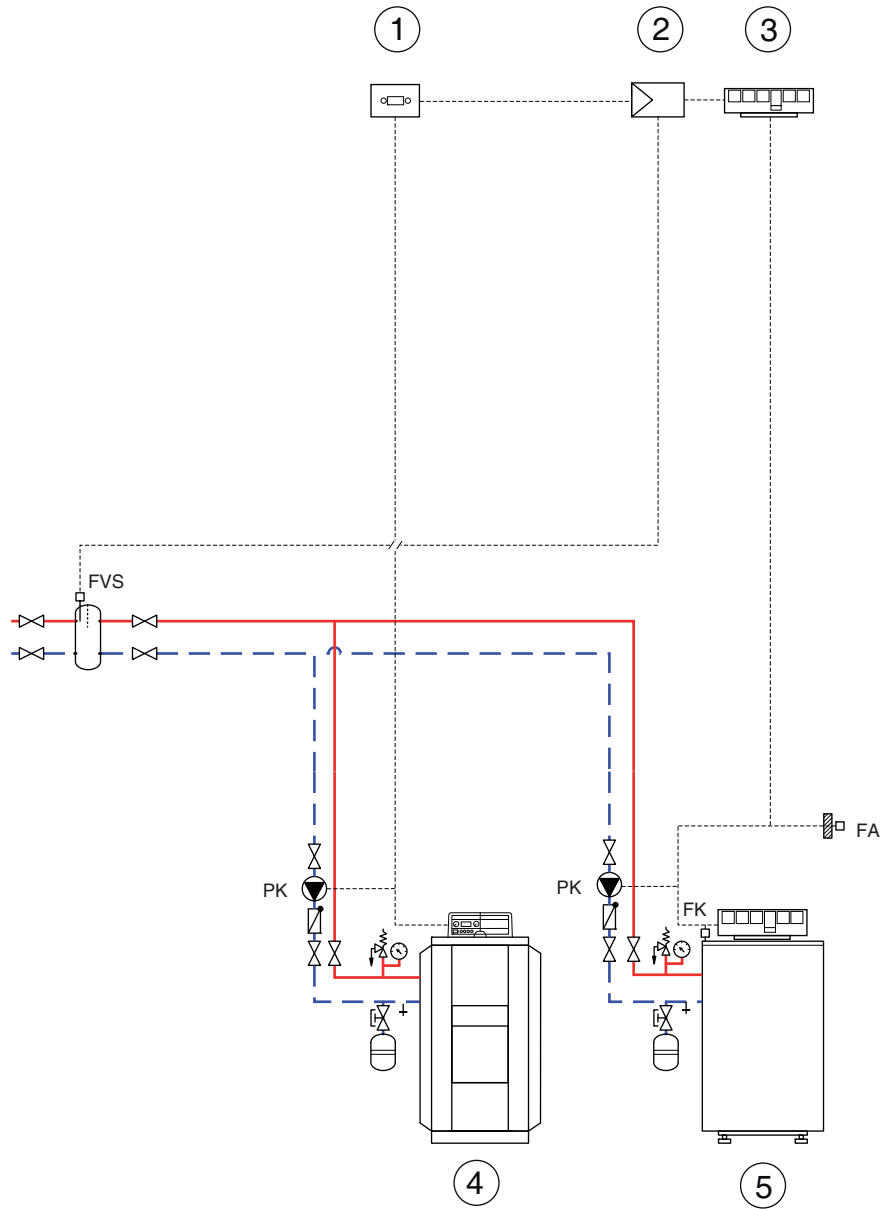
U_↑ Input 0 - 10 V, optional modulating operation

U_↓ Output 0 - 10 V; 0 - 20 mA

ZW Heat meter input
Alternatively an external sequence reversal, volt-free contact, connectable

6 720 803 862-01.1T

A

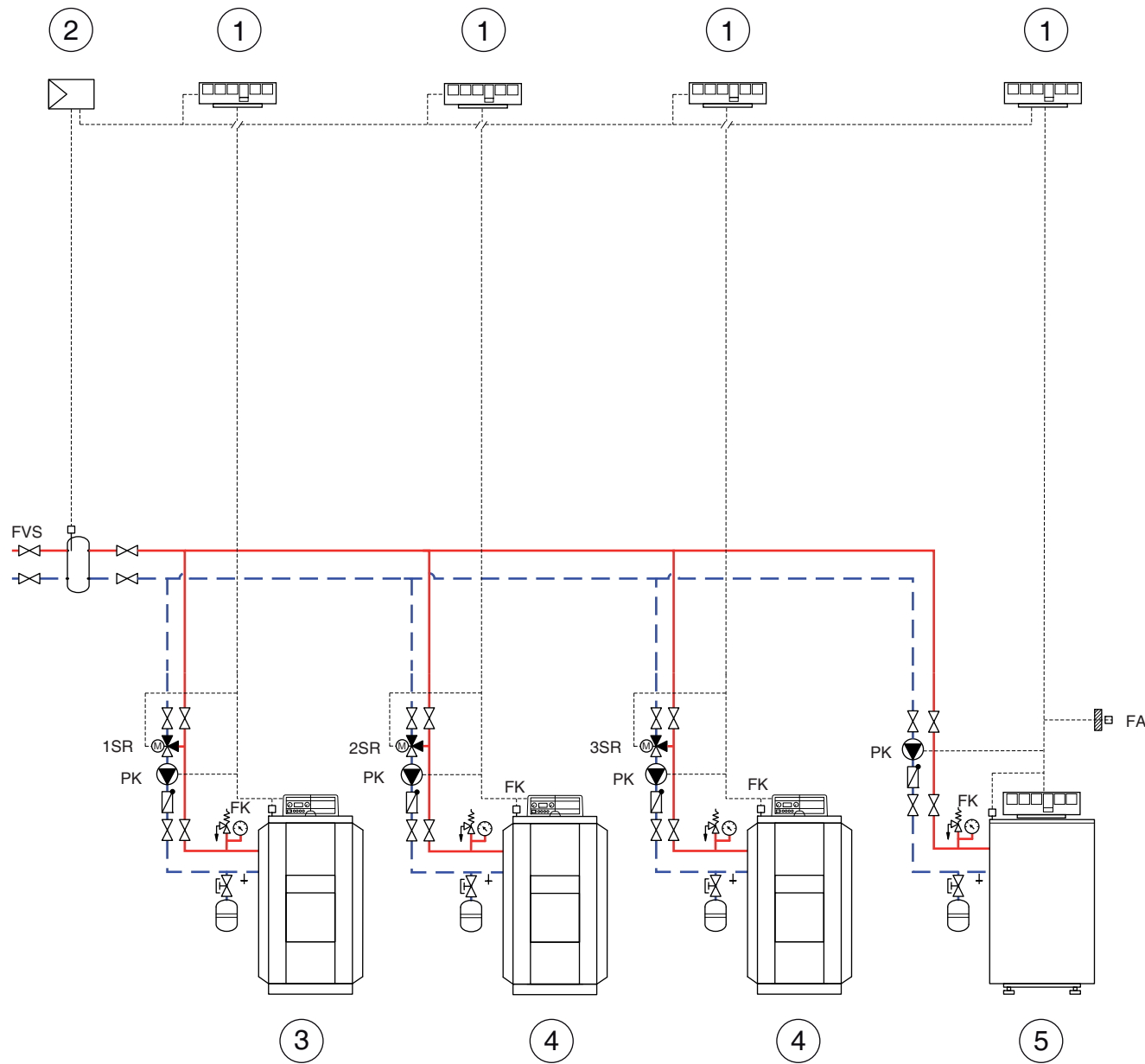


6 720 803 862-02.1T

A System example 1:
 2-boiler system, floor-standing,
 boiler with CFB control unit
 Boiler with EMS control unit (triggering of boiler circuit
 pump via 230 V, PK terminal), optional modulating
 operation via 0 - 10 V (terminal U₁)

- 1 MC10
- 2 Strategy module FM458/CMC930
- 3 Control unit R4321/CFB930
- 4 Condensing boiler (modulating) Condens 6000 F
 (connection of boiler circuit pump to MC10, not via
 R4321/CFB930)
- 5 Condensing boiler (modulating) Uni Condens ...

B

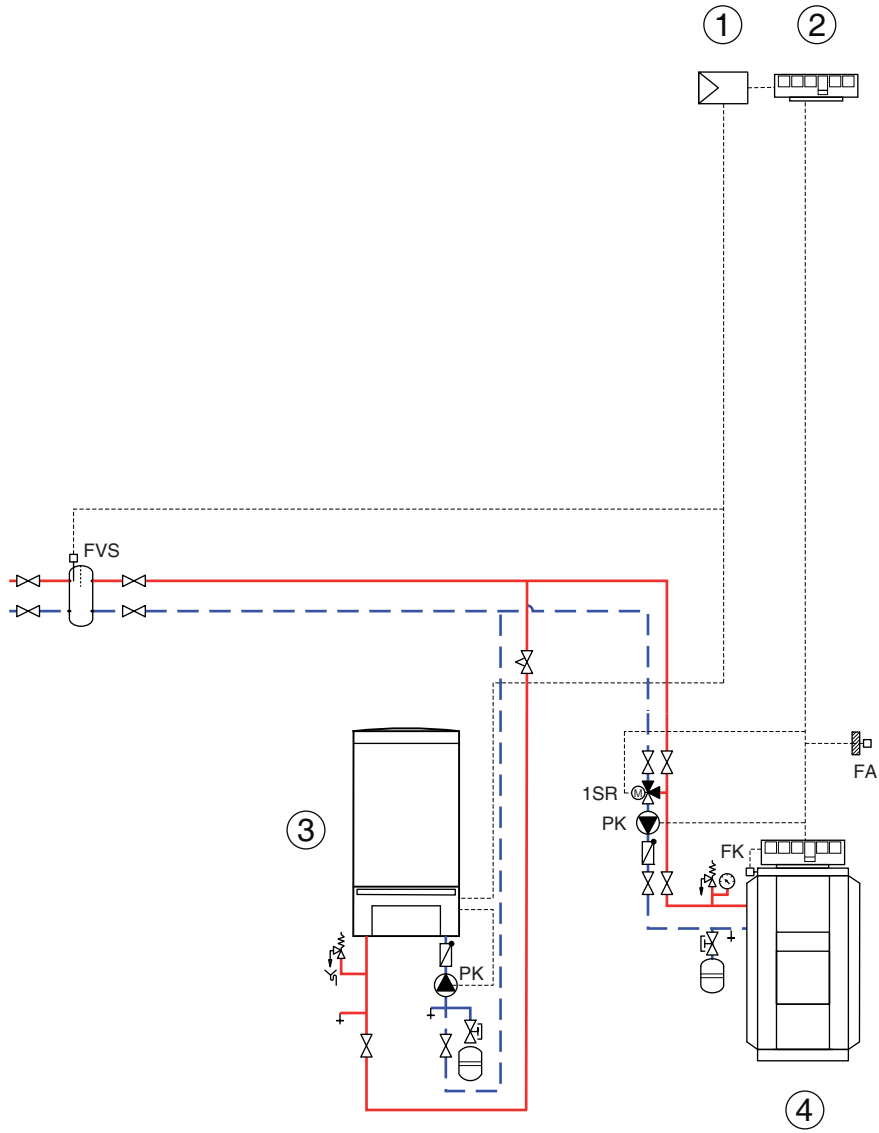


6 720 803 862-03,1T

B System example 2:
4-boiler system, floor-standing,
Boiler type with CFB control unit (triggering of boiler
circuit pump via 230 V, PK terminal), optional
modulating operation via 0 - 10 V (terminal U₇)

- 1 Boiler 1: control unit R4321/CFB930 /
Boilers 2 - 4: control unit R4211/CFB910
- 2 Function module FM458/CMC930
- 3 Boiler 1: low temperature heating boiler (staged)
Uni 7000...
- 4 Boilers 2 + 3: low temperature heating boiler
(modulating) Uni 7000...
- 5 Boiler 4: condensing boiler (modulating)
Uni Condens ...

C



C System example 3:
 2-boiler system,
 boiler with CFB control unit
 Boiler with EMS control unit (triggering of boiler circuit
 pump via 230 V, PK terminal), optional modulating
 operation via 0 - 10 V (terminal U₇)

- 1 Function module FM458/CMC930
- 2 Control unit R4321/CFB930
- 3 Boiler 1: condensing boiler (modulating)
 Condens 6000 F
- 4 Boiler 2: low temperature heating boiler (modulating)
 Uni 7000...

6 720 803 862-04.1T