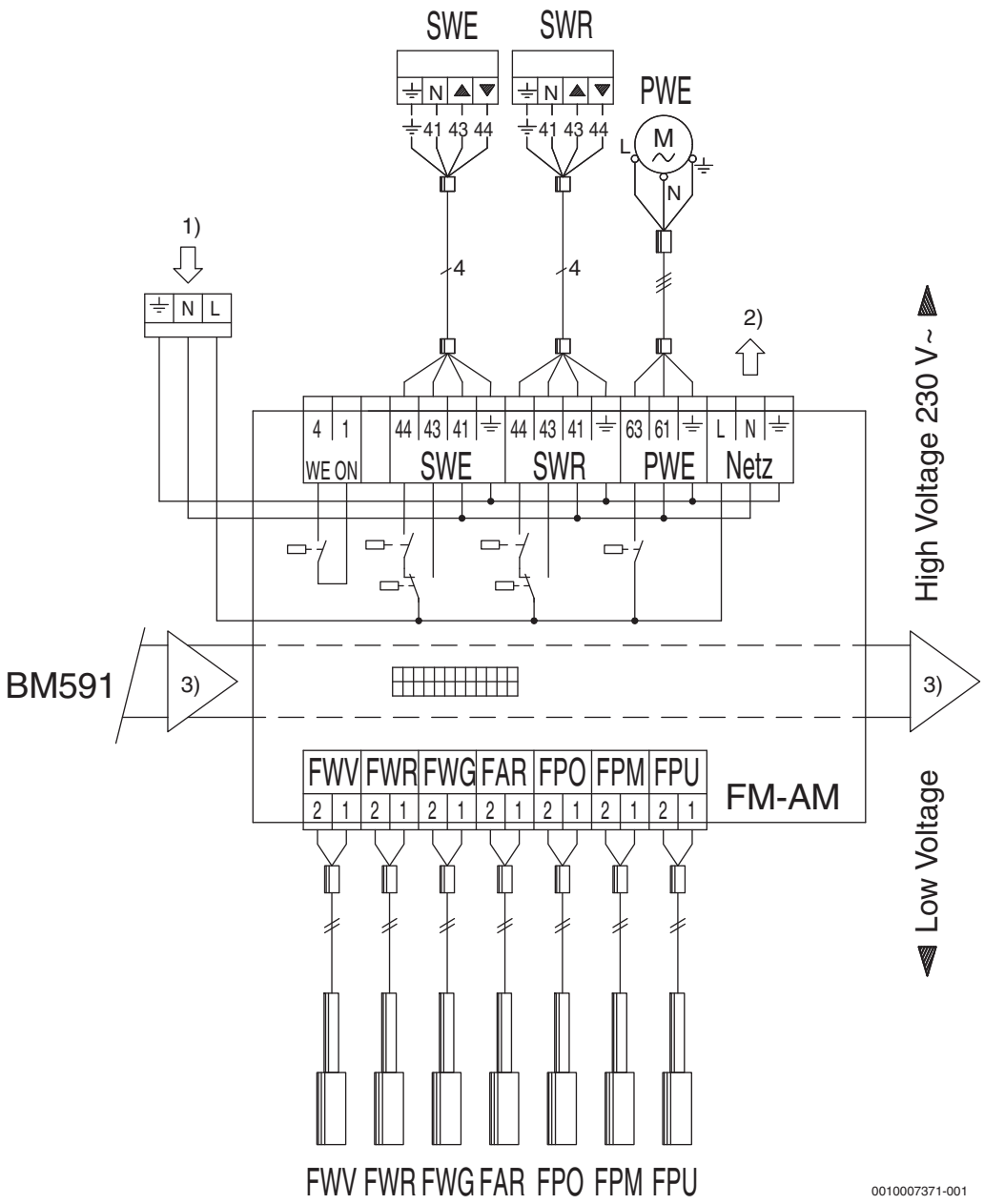
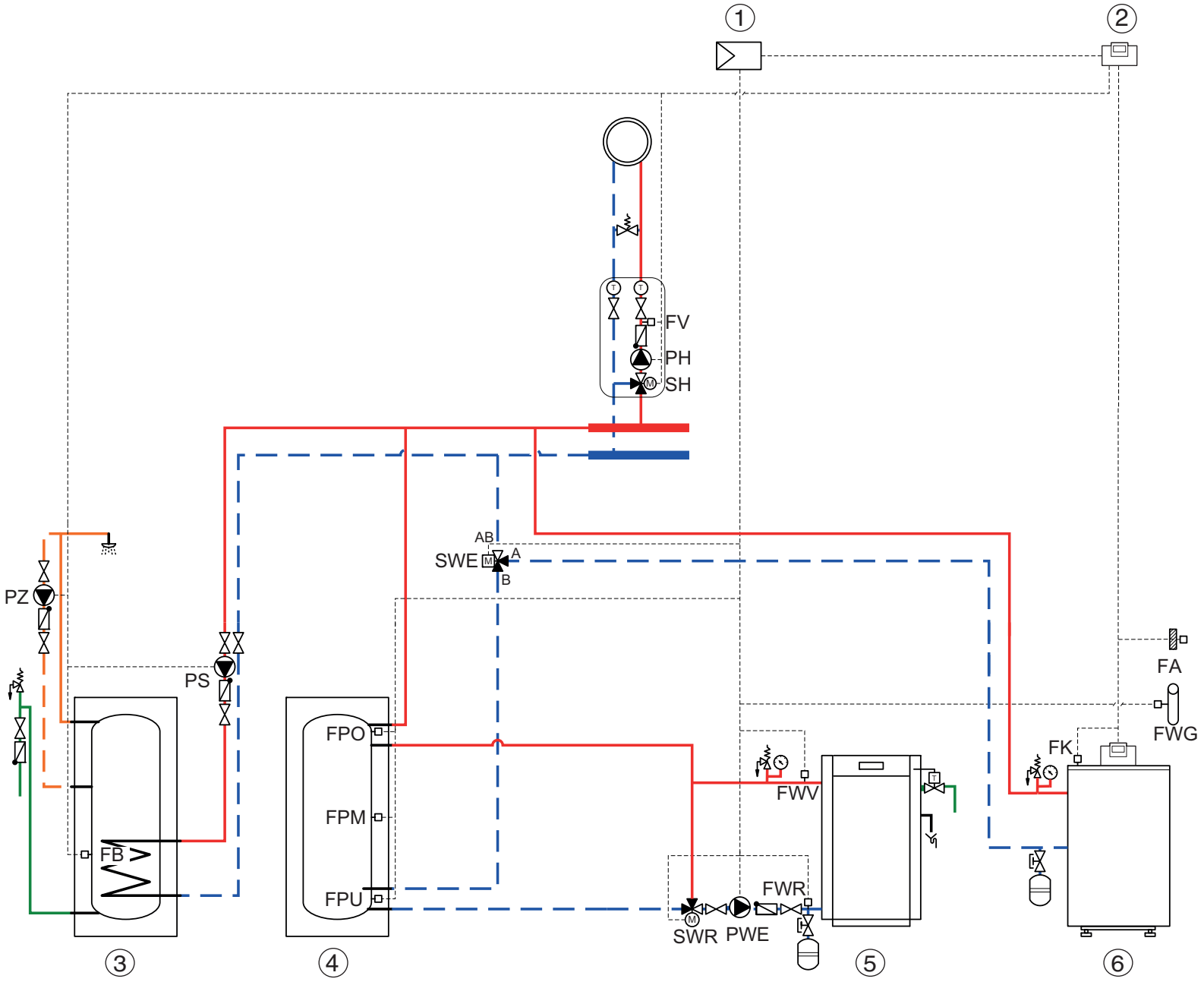


Safety instructions

- Electrical work may only be carried out by a qualified electrician.
- Carry out electrical work in accordance with the standards and local regulations which apply.
- Install the power supply so that it is fixed in place and in the correct phase.
- Ensure that the total current does not exceed the value stated on the data plate.
- Ensure that an emergency stop device (heating system emergency stop switch) is present as required by the relevant national regulations.
- In the case of systems with a three-phase current consumer, the emergency stop device must be integrated into the safety chain.
- Ensure that a circuit breaker to the required standard and, in accordance with BS EN 60335, is present for all-pole isolation from the mains power supply. If there is no circuit breaker present, you must install one.
- Before opening the control unit, disconnect all poles of the heating system via the circuit breaker. Secure it against unintentional reconnection.
- Size the cables according to the environmental conditions and the way in which the cables are to be laid. The cable cross-section for high-voltage components (pumps, mixers, etc.) must be at least 1.0 mm^2.
- Do not use the yellow/green earth lead as a control cable.
- Group and fasten together all common cables (e.g. with cable ties) or strip the cable sheath short, to prevent the risk of voltage flashes between 230 V and low voltage cables due to wires accidentally loosening.
- Observe the safety instructions in the documentation of the control unit and the modules used.
- If a condensate neutraliser is present, the contact for the overfill safety device must be incorporated into the safety chain.
- In the case of three-phase current consumers (e.g. burners, boiler circulation pumps), appropriate on-site switching devices must be connected upstream of the current consumers and fuse-protected.
- Observe the key in this document!

Note

The schematic figures show non-binding examples of hydraulic circuits. Always observe the local conditions and regulations.



Legend

Terminals

High-Voltage	Control voltage 230 V~ 1.5 mm²/AWG 14, max. 5 A
Low-Voltage	Extra-low voltage 0.4...0.75 mm²/AWG 18

1) Mains supply from the power supply module or adjacent module
2) Mains supply for further modules
3) Internal BUS in the control unit

Module designations

BM591	PCB module for internal BUS
FM-AM	Function module

Components

[1] FM-AM function module
[2] Logamatic 5xxx/Control 8xxx control unit
[3] DHW cylinder
[4] Buffer cylinder
[5] Alternative heat source
[6] Gas / oil boiler

General legend

FAR	Temperature sensor, system return
FPM	Temperature sensor, buffer centre
FPO	Temperature sensor, buffer top
FPU	Temperature sensor, buffer bottom
FWG	Temperature sensor, PT 1000, heat source flue gas
FWR	Temperature sensor, heat source return
FWV	Temperature sensor, heat source flow
PWE	Pump, alternative heat source
SWE	3-way switching valve, heat source
SWR	Heat source return actuator
WE ON	Output for automatic heat source start signal (volt free)

Example of hydraulics

Alternative buffer circuit

FM-AM, Function module - Alternative heat source management

GB/AU