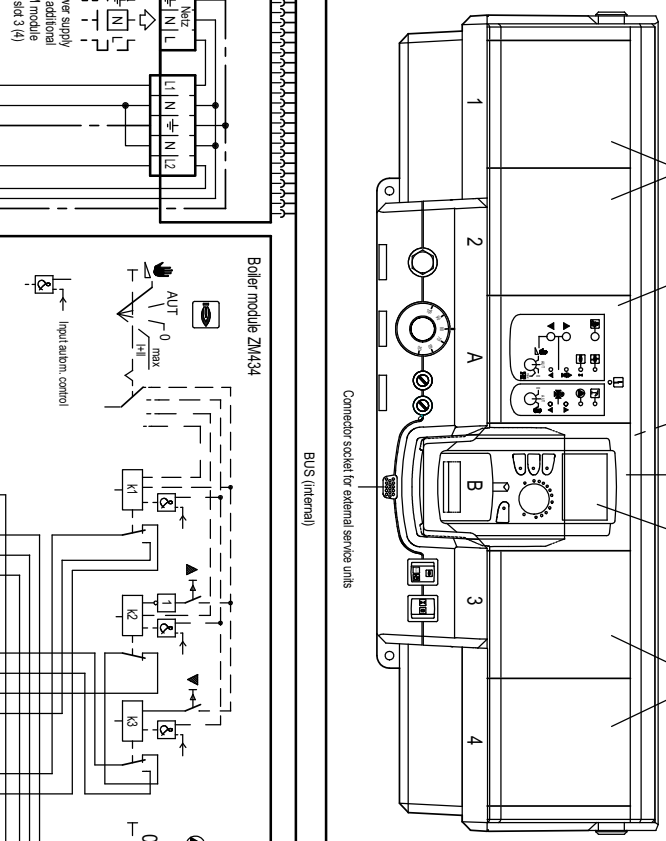
US

Note!

Installation, circuit breaker, main shutoff switch, emergency shutoff switch and protective measures in accordance with local regulations.
Please note! Never use ground wire (green/yellow) for controls purposes.
Verify that power is connected to the appropriate terminals.
This control must be hard wired.

1) Contact opens when the selected temperature is exceeded.
2) **The total current for each power circuit (L1, L2) must not exceed 10A. This value must be adhered to. Verify maximum current draw after start-up in order to avoid damage to the device!**
3) Please note! Only one MEC2 can be allocated to each control panel. The MEC2 can be plugged into the control panel or room wall-mounted using the wall installation kit (optional) wired to the ZM or FM module.
4) Terminal for optional external safety equipment. Interrupts the burner only!
5) When connecting multiple ECOCAN-BUS components, the S1 hook switches (termination on the NM482) of the two outermost ECOCAN-BUS devices must be closed.
6) L2: fuse protection of the modules in slots A, 1, and 2
   L1: fuse protection of the modules in slots 3 and 4



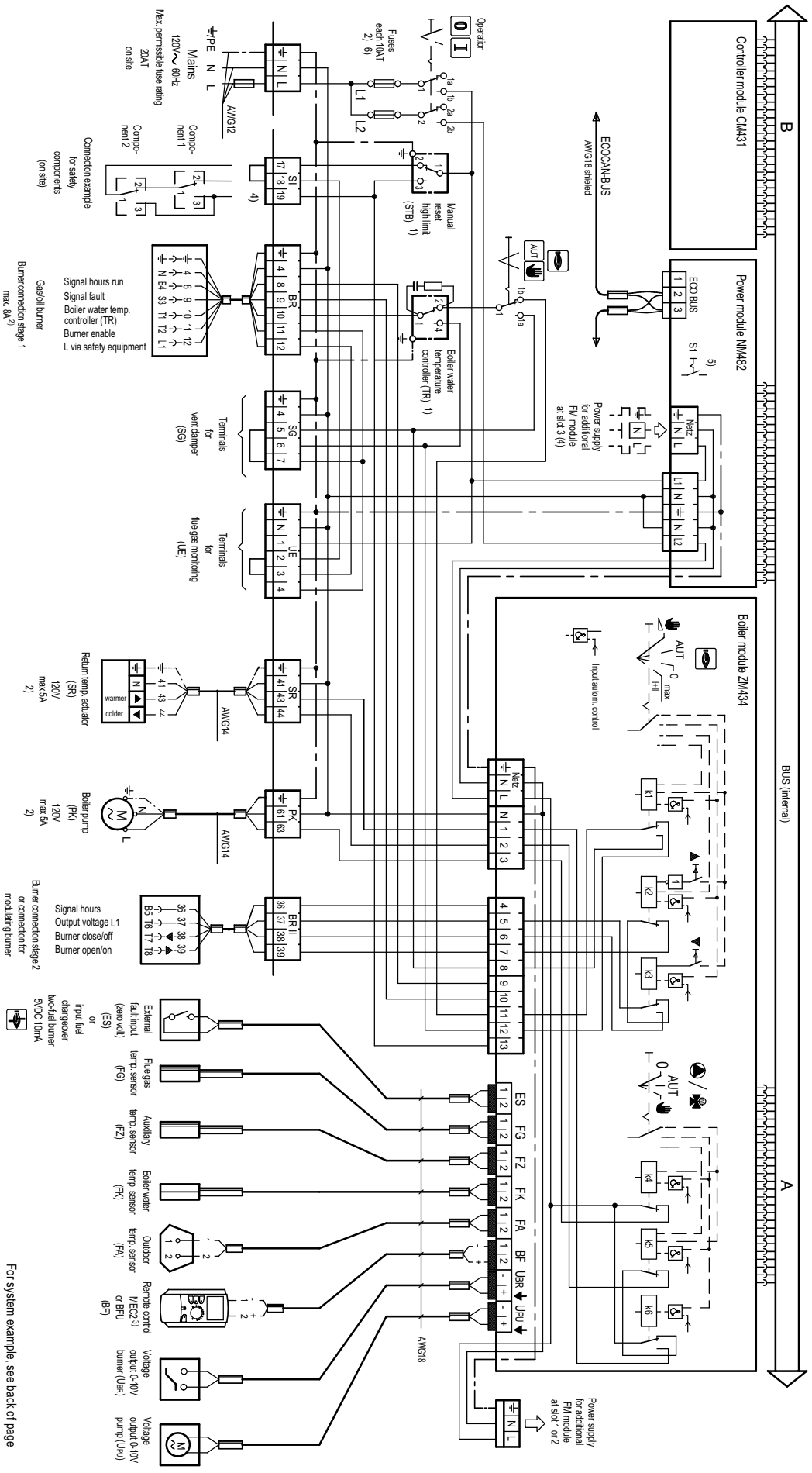
Switching states

Switch position	Stage 1	Stage 2/ modulating		
	k1	k2	k3	
AUT		Button pressed	Button pressed	
0	Control mode	Control mode hotter	Control mode colder	
max i+II	Control mode	Control mode hotter	Control mode colder	

Switch position	(PK) k4	(SR) k5	(SR) k6
AUT	Control mode	Control mode	Control mode
0	Control mode	Control mode	Control mode

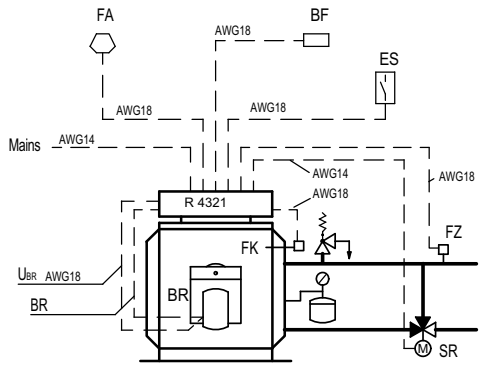
▲ = warmer
▼ = colder

Control voltage 120V ~
Extra-low voltage for sensors



For system example, see back of page

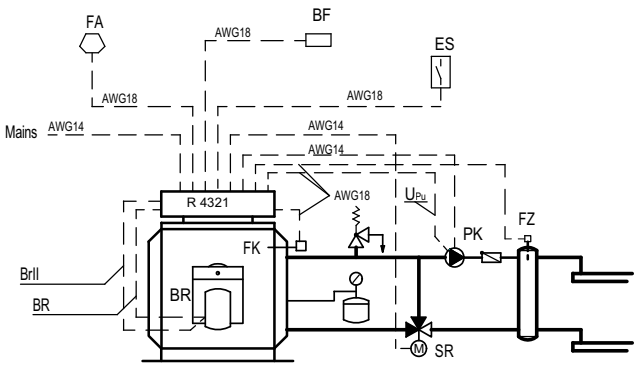
System example 1



Buderus
Thermostream boiler or
LT boiler with base line temperature

Example of the connection of a Thermostream boiler
or LT boiler with low-end temperature
control via a separate boiler circuit actuator (SR).

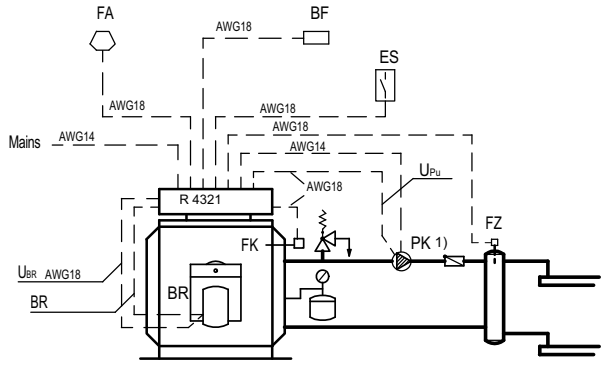
System example 2



Buderus
Thermostream boiler

Example for integration of Thermostream boilers.
Control via boiler actuator. Terminal UPu only
required for modulating boiler circuit pump.

System example 3

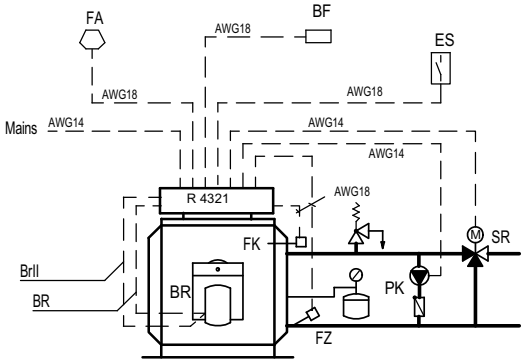


Buderus
LT boiler

Example of connecting a low temperature boiler.
Low temperature boilers require heating circuit
actuators to control the operating conditions.

1) A boiler circuit pump may be controlled when using low loss headers.
Terminal UPu only required for modulating boiler circuit pump (0-10V).

System example 4



Buderus LT boiler
with minimum return temperature

Example for integration of boilers with
return temperature control.
Control via separate boiler actuator (SR).

Legend:

BF	remote control MEC2 or BFU
BR	burner
ES	external fault input (dry contact)
FA	outdoor temperature sensor
FK	boiler water temperature sensor
FZ	auxiliary temperature sensor
PK	boiler pump
SR	return temperature actuator
UPu	voltage output 0-10V pump
UBr	voltage output 0-10V burner