

PUNDMANN

BOILER CONTROL

OPERATING MANUAL

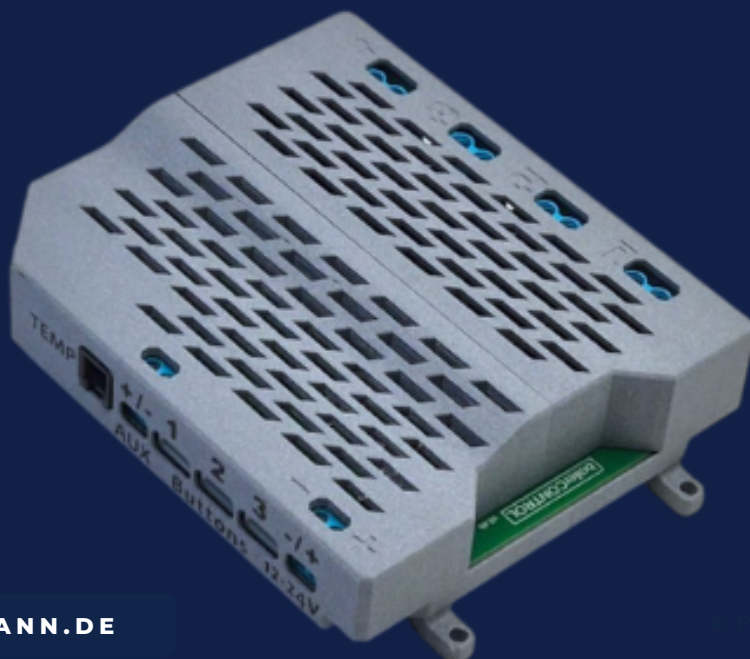
WIFI 2.4 GHZ

12 / 24 V

4 × RELAY

boilerCONTROL

BY PUNDMANN



WWW.PUNDMANN.DE

PUNDMANN IS A BRAND OF

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1 Method of use

Thank you very much for choosing a Pundmann product.

boilerCONTROL gives you a variety of options to control the heat in your boiler. boilerCONTROL was developed for Pundmann boilers, but is also often used or retrofitted for third-party products.

2 Specifications

SPECIFICATIONS

Power supply	12 to 24 V (max: 28 V)
4 relays max. load	AC: 40 A @ 250 V, DC: 20 A @ 30 V
Temperature sensor	DS18B20
External control signal	Signal of 0..24 V
3 pushbutton connections	Optionally available
WIFI	2.4 GHz

3 Basic information on operation

General operation is carried out via the optionally available buttons. Pressing the button switches on the corresponding heating element. The long press (1–4 s) turns off the heating element.

A maximum of 3 buttons can be connected. If a button (if connected) is pressed for more than 10 seconds, the current Wifi connection is disconnected and the device is back in access point mode for direct access, or to be connected to a Wifi network.



Figure 1

Figure 1
Optionally available button

4 Configuration and operation via the browser

4.1 Setting up WIFI access

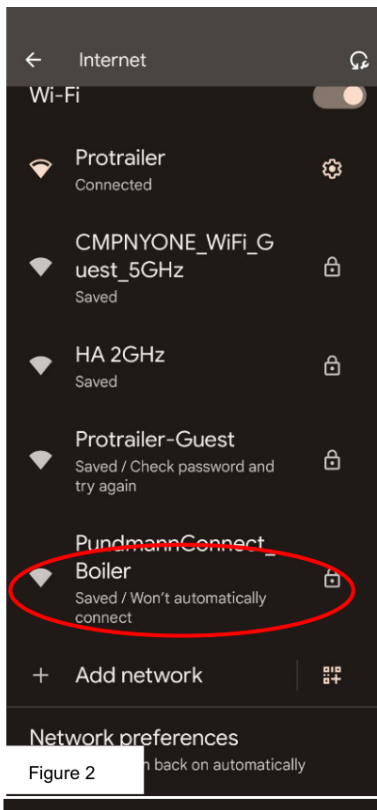


Figure 2

After the power supply is established, the device creates an access point. In your device's Wi-Fi settings, look for the "**PundmannConnect_Boiler**" network.

- Select the PundmannConnect_Boiler network.
- Enter the password "**12345678**" to connect.

Connection options

After the connection is established, you have two options:

- 1. Choose Wi-Fi:** You can choose your own Wi-Fi here. You then connect to your network and navigate to the new IP address, or alternatively to <http://boilercontrol.local>
- 2. Select Exit:** If you select this option, the current connection will be terminated and a new Wi-Fi network will appear: "**PundmannConnect_Boiler_STA**" (Access Point Mode). Use the password "**12345678**" again. Open a browser and enter the address **192.168.4.1** to reach the web interface of the boiler.

Please note that only a connection with a 2.4 GHz radio network is possible.

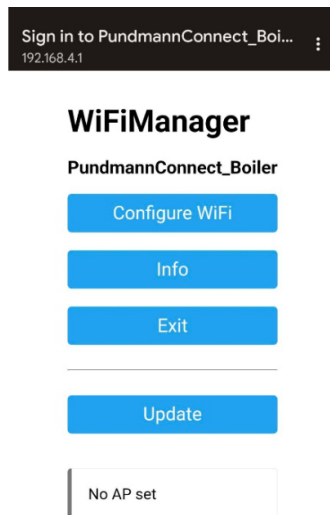


Figure 3

Figure 3

4.2 The Start Menu

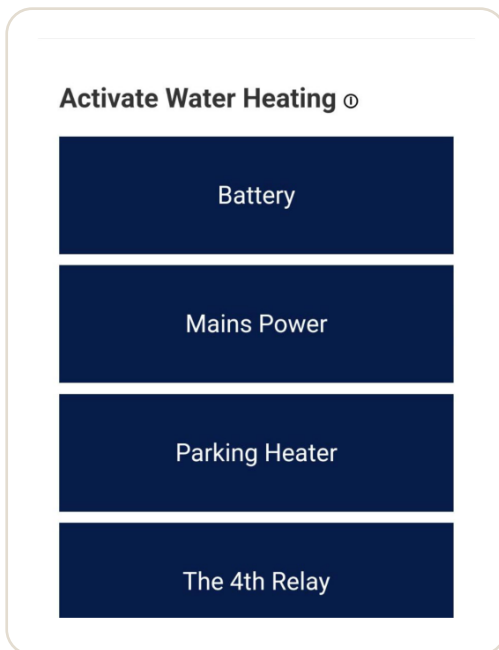


Figure 4

The start menu is initially reduced to the maximum number of switching options, which you can also provide via physical buttons.

Selecting the buttons activates the corresponding relay and switches either a heating element or the parking heater on or off.

If the relay cannot be switched, this may mean that the desired water temperature has already been reached.

The water temperature can be seen in the upper right corner (Figure 4).

If the Autoterm parking heater, or another suitable parking heater with external control option, is activated on the 3rd relay, it switches on automatically. The same conditions apply here for switching on and off as for the heating rods.

The selected active relay is contrasted in yellow (Figure 5).

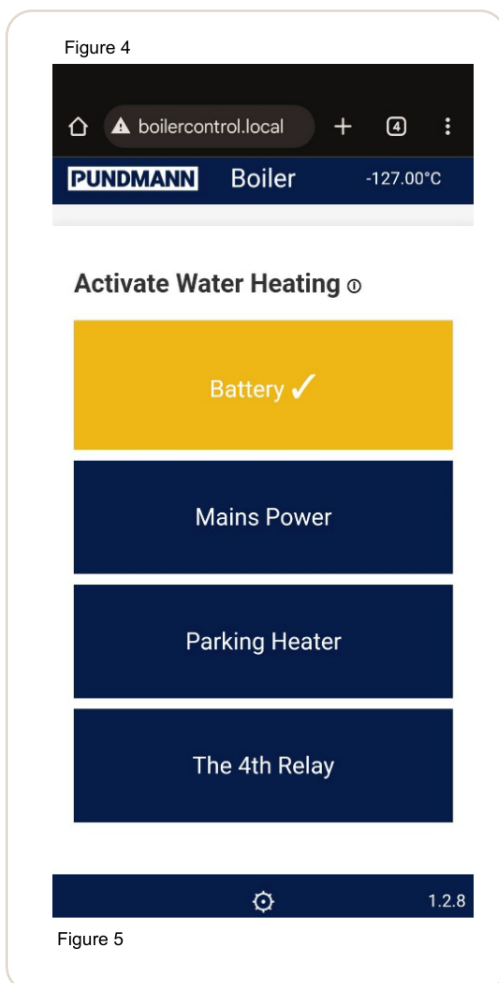


Figure 5

Figure 5

4.3 Settings

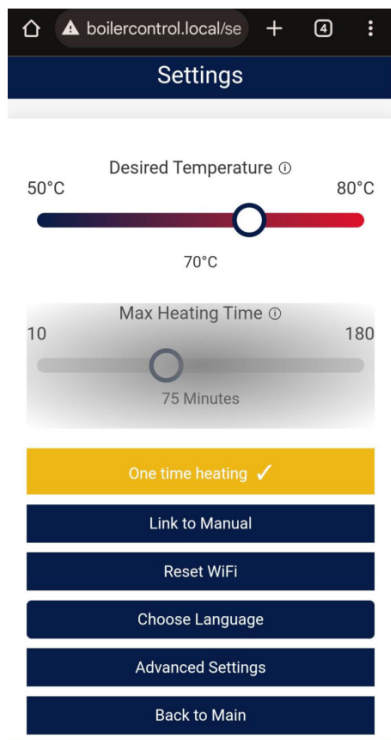


Figure 6

Figure 6

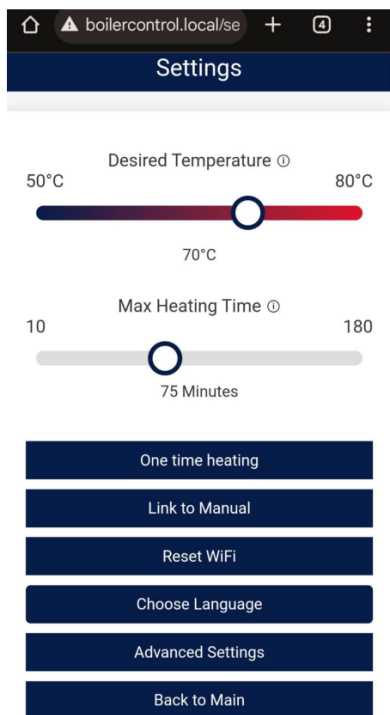


Figure 7

Figure 7

You can get to the adjustment layer by tapping on the gear at the bottom.

4.3.1 Desired temperature

Setting the desired water temperature.

4.3.2 Max. heating time

Setting how long the boiler should remain on standby.

4.3.3 One-time heating

Alternatively, the heating mode "Single heating" can be activated. In this mode, heating is carried out to the desired temperature and the heating function is switched off when it is reached (Figure 6).

4.3.4 Manual

Here you have access to the current manual at any time (Internet required). Alternatively, you can download the manual at <https://manuals.pundmann.de/>

4.3.5 Reset Wi-Fi

If you want to reset the Wi-Fi, you have the option here. You will then start again with 4.1.

4.3.6 Language

You can choose from German, English, French, Spanish, Italian and Polish.

4.3.7 Advanced settings

Clicking on "Advanced Settings" takes you to the next adjustment level (all Figure 7).

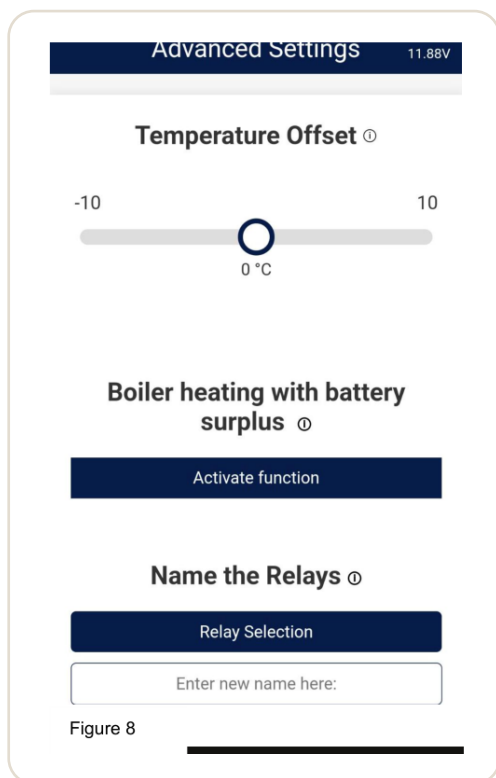


Figure 8

4.3.8 Temperature Offset

If the water temperature does not match the set temperature after heating, a correction can be made upwards or downwards. If the temperature shows "-127 °C", either no temperature sensor is connected, or the sensor or the cable is defective.

4.3.9 Boiler heating with battery surplus

Use an external signal to control the boiler.

4.3.10 Switching options through external control

By applying a voltage to the AUX input (max. 24 V), the water heating can be activated via an external system. For example, a battery computer with relay function (Victron BMV 712) can be used to switch voltage to the contacts in order to use the PV energy to heat the water when the battery is full.

Under "**Select a relay**" you define which relays are to be switched via the external control.

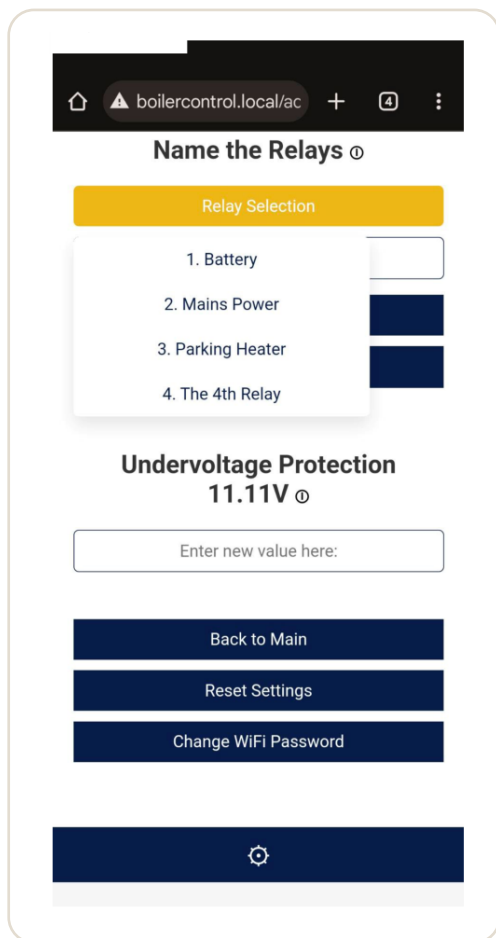


Figure 9

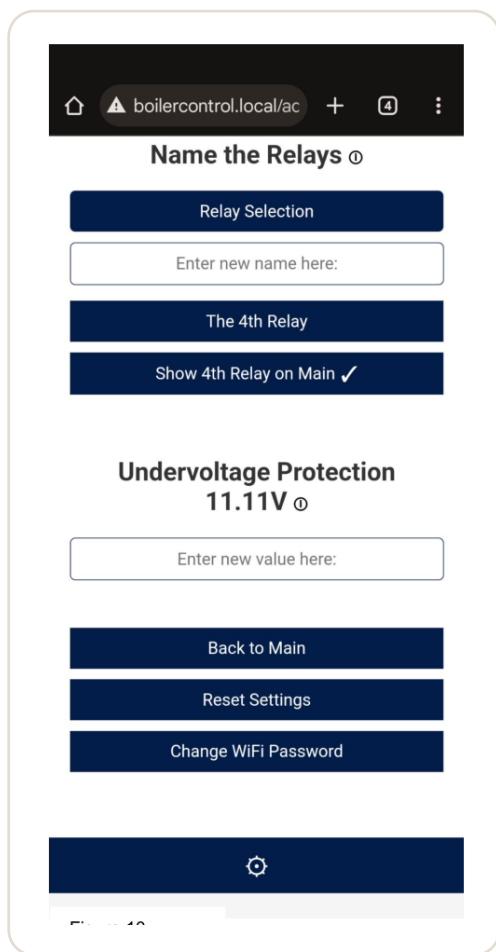


Figure 10

4.3.11 Naming the relays

In the menu item **"Name the relays"** you can give the relays individual, unique names that suit your situation.

4.3.12 Relay

"The 4th Relay" — the fourth connection option can only be switched via the browser interface. There is no button control. This can be used to switch awning lighting, for example, via a mobile phone or tablet without you having to go into the vehicle.

4.3.13 Undervoltage protection

Here you can set the battery voltage at which the heating element on relay 1 should be switched off. **Attention, only relay 1 reacts to undervoltage.** This voltage is checked every 90 seconds. In case of low voltage, button 1, if connected, flashes 8 times. It does this every 90 seconds until the undervoltage is resolved.

4.3.14 Working Reset

Here all installations are reset. The Wifi settings are not touched.

4.3.15 Change your Wifi password

The default password is "12345678", please change it to prevent unauthorized access. If a button (if connected) is pressed for more than 10 seconds, the Wifi settings are reset.

5 Assembly

Attach the boilerCONTROL to a non-heat-sensitive surface using the 4 side attachment points.

WARNING

Make sure you don't put things on or on top of the boilerCONTROL. Due to the currents occurring in the 12/24 V range, the relays develop heat, which must be dissipated via the ventilation openings.

The Pundmann boiler is available with up to 2 heating rods. Depending on the equipment, the following connection options are available:

5.1 One or two heating rods in 12 or 24 V

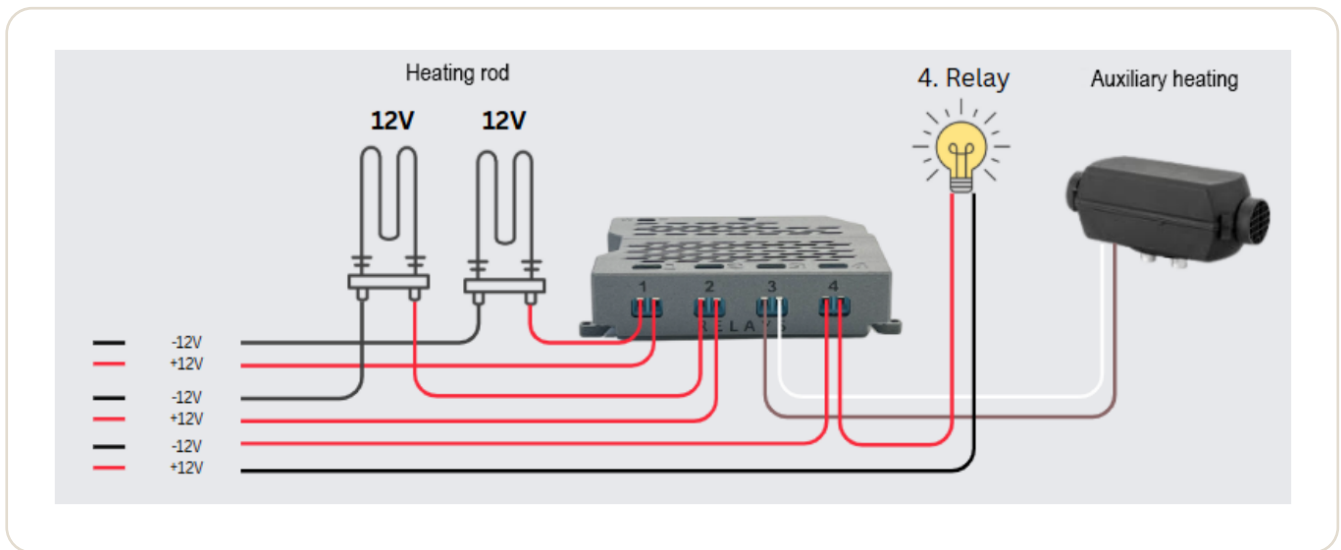


Figure 11

5.2 One heating element in 12 or 24 V, the second in 230 V

Of course, both heating rods in 230 V would also be possible.

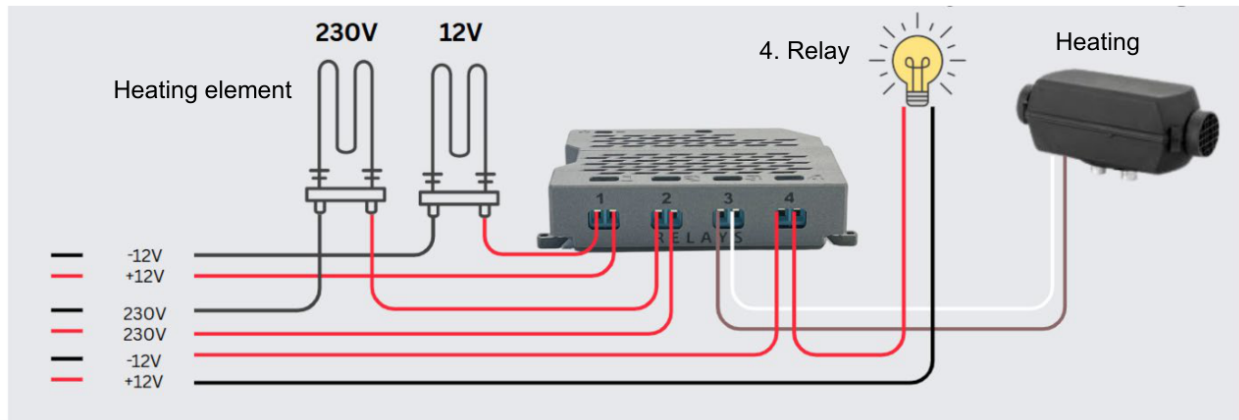


Figure 12

5.3 With cooling circuit connection

e.g. Pundmann FLOW Boiler

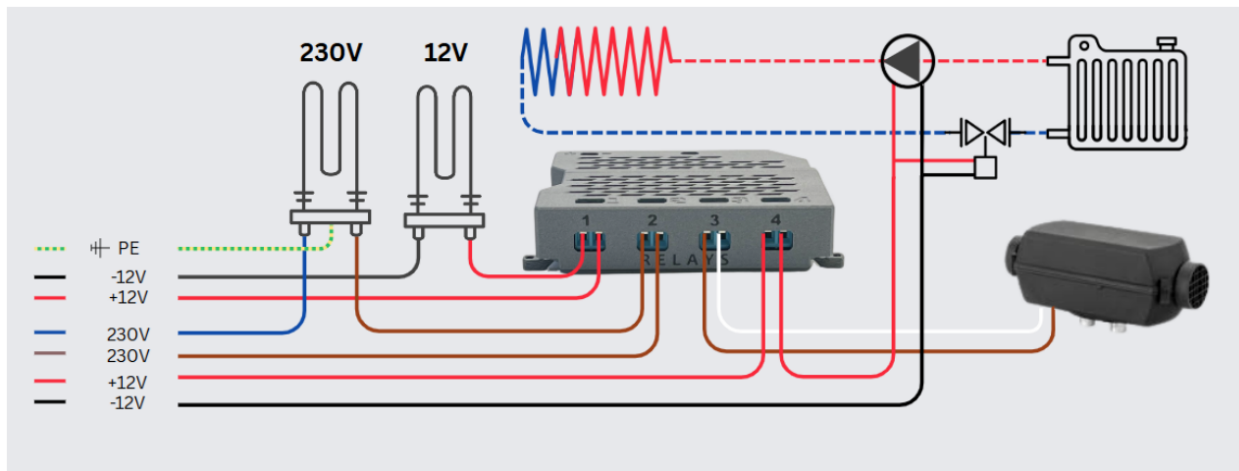
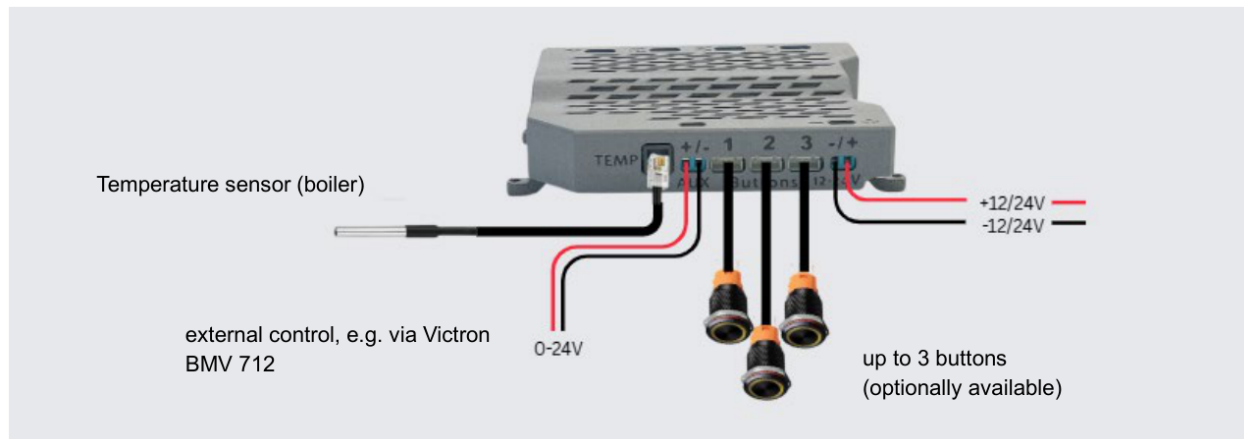


Figure 13

boilerCONTROL activates the coolant pump and opens the coolant valve when the water temperature falls below the desired level. When the target temperature is reached, the pump is deactivated and the valve is closed. This is a simplified representation. Please only intervene in your coolant circuit if you are sure of what you are doing. For reasons of overview, any heat exchanger that may be required is not shown. If you do not connect a heat exchanger, the water pump is not necessary. If you want to activate this function via a button, you have to use one of the relays 1–3, as the 4th relay can only be switched automatically and/or via online access.

Basically, all relays with **AC: 40 A at 250 V** or **DC: 20 A @ 30 V** can be loaded.

6 Connections



- **Power supply** — 12 or 24 V
- **Buttons** — optionally available
- **AUX** — for controlling heating via external systems, e.g. the switching relay of the Victron BMV 712, or other controls
- **Temperature sensor** — included in the scope of delivery (type DS18B20)

7 Environmentally friendly disposal

- Do not dispose of the appliance in the household waste.
- Delivery to recycling points or manufacturers.
- Dispose of packaging material according to regulations.

8 EU compliance

This product complies with the applicable EU directives on electromagnetic compatibility (2014/30/EU) as well as the EN 61000-6-1 and EN 61000-6-3 standards.

Karchowice, 02.05.2025



Jan-Felix Nagel

Managing Director and Owner