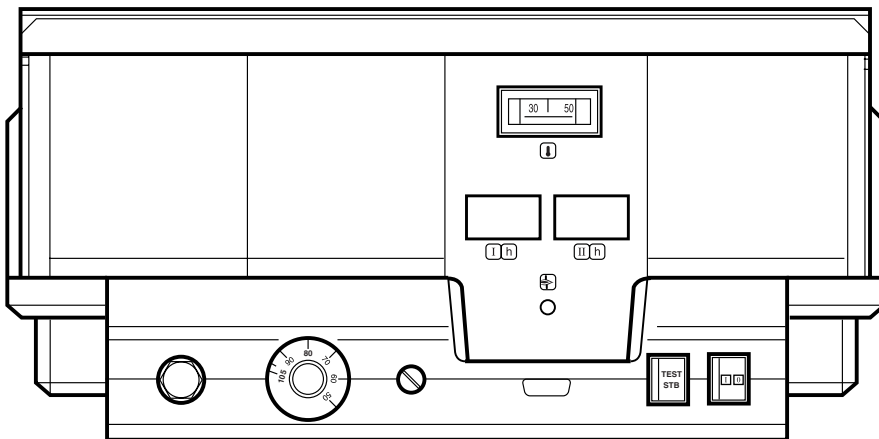


# Operating instructions

## Logamatic 4212 control unit



BRUNNEN

## **Important – General Application Notes**

Use this technical equipment only for its intended purpose and according to the operator's instructions. Maintenance and repairs must only be carried out by authorised and qualified personnel.

Use this control unit only in those combinations and together with accessories and spare parts indicated in the operating instructions. Any other combination, accessories and wearing parts must only be used, if these are specifically designed for the intended application and impair neither the performance characteristics nor infringe the mandatory safety requirements.

## **Subject to technical modifications.**

Constant development may lead to minor deviations in the illustrations, functional steps and specifications from those described/shown.

# 1 Operating instructions Logamatic 4212 control unit

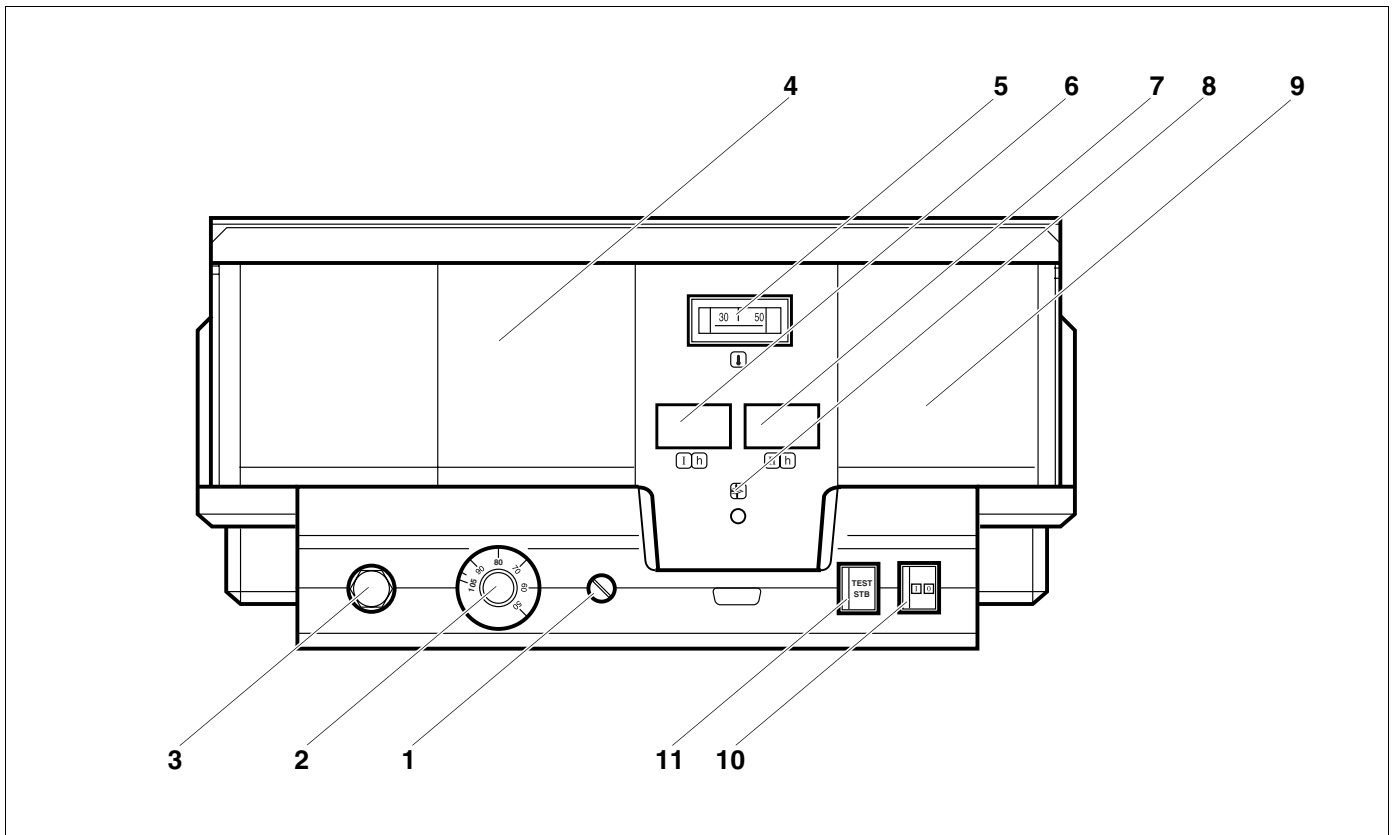


Fig. 1 Controls - Logamatic 4212 control unit

*Legend for Fig. 1*

- Item 1:** Fuse
- Item 2:** Boiler control thermostat
- Item 3:** High limit safety cut-out
- Item 4:** Slot for additional high limit safety cut-out module ZM 426
- Item 5:** Boiler water thermometer
- Item 6:** Slot for hours run counter stage 1
- Item 7:** Slot for hours run counter stage 2
- Item 8:** Burner fault display
- Item 9:** Slot for boiler module ZM 427
- Item 10:** ON/OFF switch
- Item 11:** High limit safety cut-out test button (only for test purposes)

## 1.1 Heating mode

This setting is designed for central heating and DHW (Domestic Hot Water) cylinder heating.



### PLEASE NOTE:

The boiler water thermostat (Fig. 1, **Item 2**) must be set to a minimum of 80 °C, if the boiler is equipped with a boiler module ZM 427 or an external control unit.

## 1.2 Two-stage mode

The boiler water thermostat (Fig. 1, **Item 2**) is a two level thermostat for two-stage burner operation.

The switching point of the second stage of the boiler water thermostat is approx, 5 °C lower than that of stage 1.

## 1.3 Burner fault display

If the burner fault lamp illuminates (Fig. 1, **Item 8**), ask your local heating engineer to remedy the fault.

## 2 For heating engineers

### Setting instructions – high limit safety cut-out (STB)

#### 2.1 Housing installation and removal of the high limit safety cut-out

- The high limit safety cut-out (STB) (Fig. 2, **Item 2**) must be removed from its housing before the required temperature can be set.



#### WARNING!

Before you open the control unit, isolate the system from the mains electrical supply using an emergency stop switch on the heating equipment or by removing the mains fuse.

- Unscrew both screws (Fig. 2, **Item 1**) to remove the high limit safety cut-out.
- Remove the cover (Fig. 2, **Item 3**).
- Unscrew the protective cap (Fig. 2, **Item 2**).
- Undo the screw connection.
- Remove the high limit safety cut-out and carry out the following adjustments.



#### PLEASE NOTE:

Set the high limit safety cut-out to the maximum permissible heating system temperature, in accordance with local regulations.



#### PLEASE NOTE:

The factory setting is 110 °C.

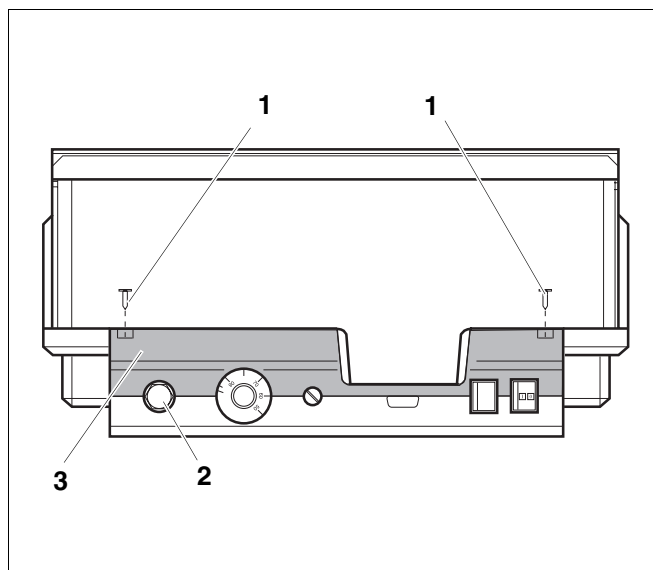


Fig. 2 Logamatic 4... control unit

### 2.2 High limit safety cut-out

#### 2.2.1 Fig. 3 Version A

- Release the screw (Fig. 3, **Item 1**).
- Set the thin plate with the temperature scale (Fig. 3, **Item 2**) to the required setting (Fig. 3, **Item 3**).
- Re-tighten the screw (Fig. 3, **Item 1**).

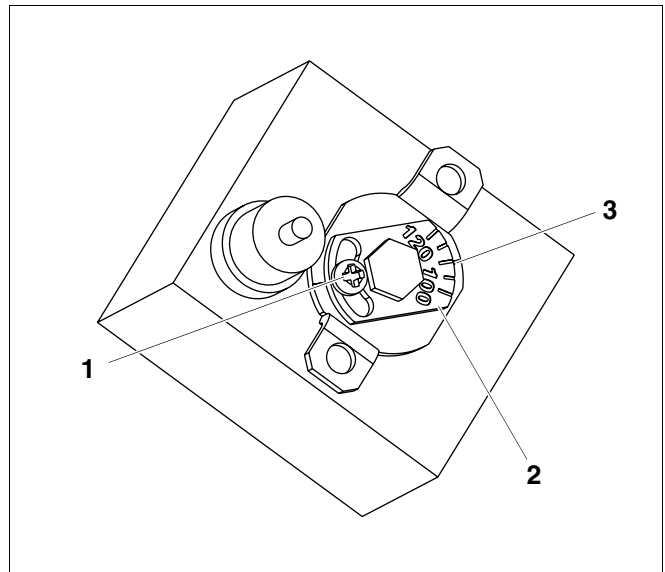


Fig. 3 Version A

#### 2.2.2 Fig. 4 Version B

- Move the lever (Fig. 4, **Item 1**) to the required temperature.



**PLEASE NOTE:**

After the installation and adjustment, verify the correct function of the high limit safety cut-out.

### 2.3 Checking and resetting the high limit safety cut-out

#### 2.3.1 STB button

The STB button (Fig. 1, **Item 11**) is designed to test the high limit safety-cut-out (Fig. 1, **Item 3**), which must be carried out by your heating engineer.

- Push the STB button (Fig. 1, **Item 11**) and hold until the STB (Fig. 1, **Item 3**) has been reset.
- To reset the high limit safety cut-out (Fig. 1, **Item 3**) remove the domed nut on the STB and press the reset button located under the nut.

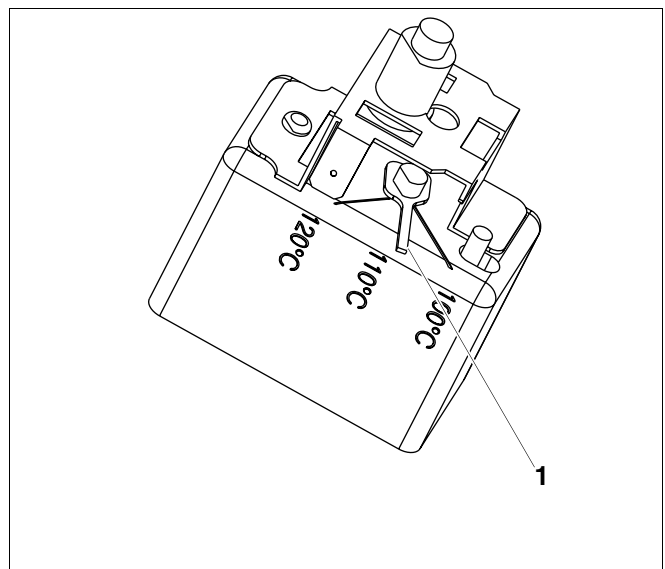


Fig. 4 Version B

## 2.4 Setting instructions – boiler control thermostat (TR)



### PLEASE NOTE:

Changing the boiler thermostat from 90 °C to 105 °C (only if the STB is set to 120 °C).

For systems requiring a boiler temperature higher than 90 °C (**observe the relevant note**), the boiler thermostat can be changed from 90 °C to 105 °C.

- Pull the setting knob (Fig. 5) off the boiler thermostat (Fig. 1, **Item 2**).
- Break off the end stop tabs (Fig. 5, **Item 1**).
- Push the setting knob back onto the boiler thermostat (Fig. 1, **Item 2**).



### INSTRUCTIONS

Logamatic control with electronic controllers may be operated with a maximum temperature of 99 °C. See service instructions "Maximum shutdown temperature".

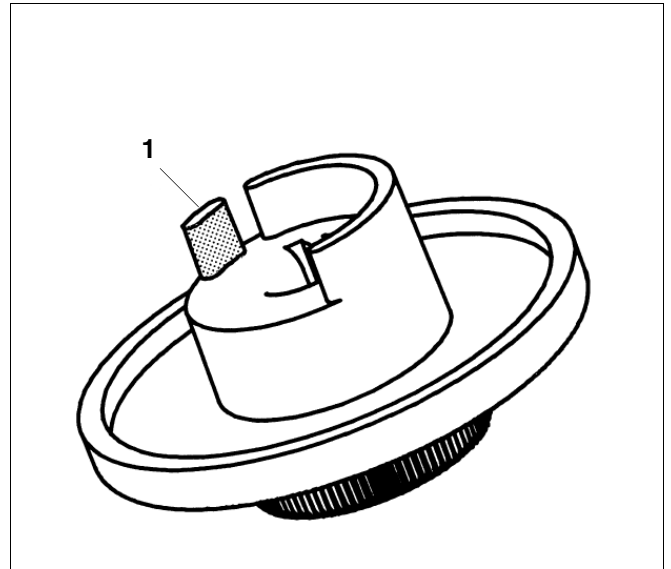


Fig. 5 Scaled selector

Your installer:

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