

Installation instructions

for contractors



Vitotrol 100 Type UTDB

Room temperature controller with digital time switch

VITOTROL 100



Safety instructions



Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained



Danger

This symbol warns against the risk of injury.

Note

Details identified by the word "Note" contain additional information.



Please note

This symbol warns against the risk of material losses and environmental pollution.

Target group

These instructions are exclusively intended for qualified contractors.

- Work on gas installations may only be carried out by a registered gas fitter.
- Work on electrical equipment may only be carried out by a qualified electrician.

Safety instructions (cont.)

Regulations to be observed

- National installation regulations
- Statutory regulations for the prevention of accidents
- Statutory regulations for environmental protection
- Codes of practice of the relevant trade associations
- Relevant country-specific safety regulations

Working on the system

- Where gas is used as the fuel, close the main gas shut-off valve and safeguard it against unintentional reopening.
- Isolate the system from the power supply, e.g. by removing the separate fuse or by means of a mains isolator, and check that it is no longer live.
- Safeguard the system against reconnection.
- Wear suitable personal protective equipment when carrying out any work.



Danger

Hot surfaces and fluids can lead to burns or scalding.

- Before maintenance and service work, switch off the appliance and let it cool down.
- Never touch hot surfaces on the boiler, burner, flue system or pipework.

Safety instructions (cont.)

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▪ Please note
Electronic assemblies can be damaged by electrostatic discharge. | Prior to commencing work, touch earthed objects such as heating or water pipes to discharge static loads. |
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Repair work



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▪ Please note
Repairing components that fulfil a safety function can compromise the safe operation of the system. | Replace faulty components only with genuine Viessmann spare parts. |
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Installation sequence

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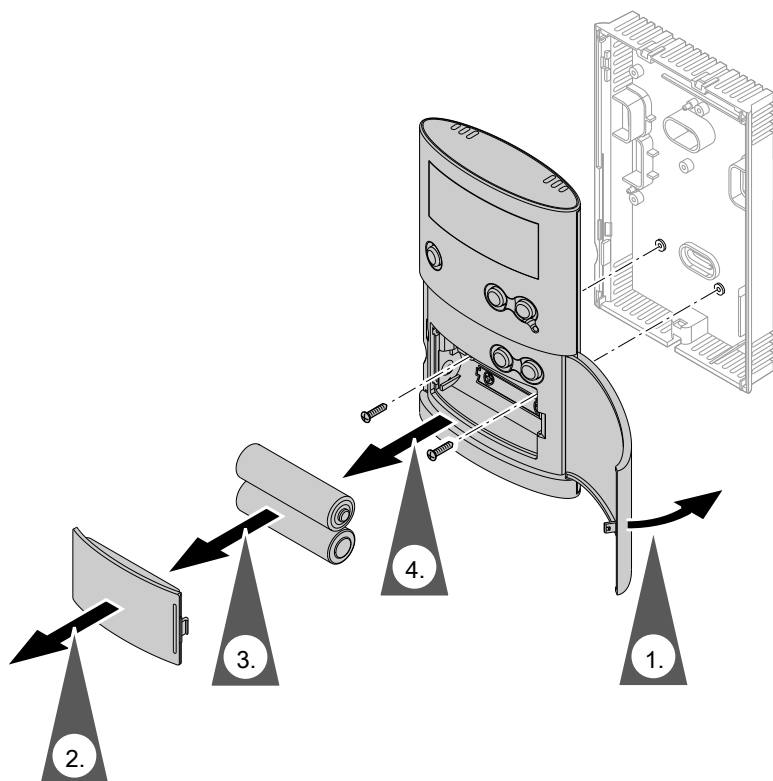
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Installation site

- Installation in the main living room on an internal wall opposite radiators
- Approx. 1.5 m from the floor
- Not near windows or doors
- Not in shelving or in recesses
- Not near heat sources (radiators, direct sunlight, fireplaces, TV sets etc.)

Do not install further control devices in this main living room. If the radiators are equipped with thermostatic valves, these must always be fully opened.

Opening the Vitotrol 100

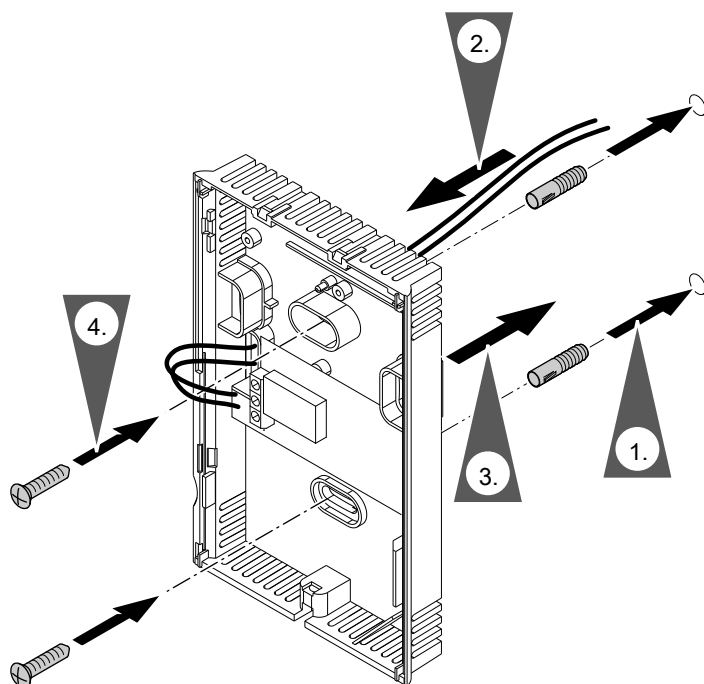


Fitting the wall mounting base

Power is supplied by batteries (see chapter "Specification").

For the connection to the control unit, see the following chapter.

Fitting the wall mounting base (cont.)



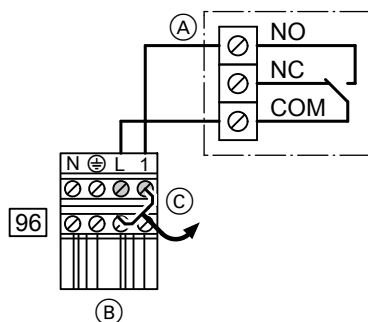
Electrical connection to the control unit

Note

Press cables flat into the base.

Electrical connection to the control unit (cont.)

Connector and plug 96 (4-pole)

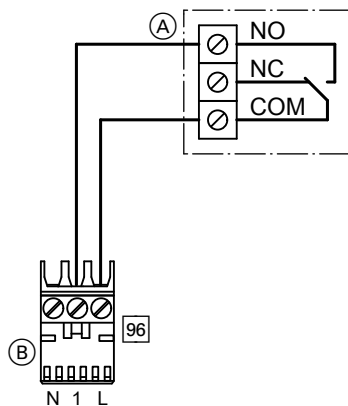


Recommended connecting cable

- 2-core cable with a cross-section of 1.5 mm² for 230 V~

- (A) Vitotrol 100, type UTDB
- (B) Plug 96 to control unit
- (C) Jumper, remove when making this connection

Connector and plug 96 (3-pole)



Further information on connecting to the control unit



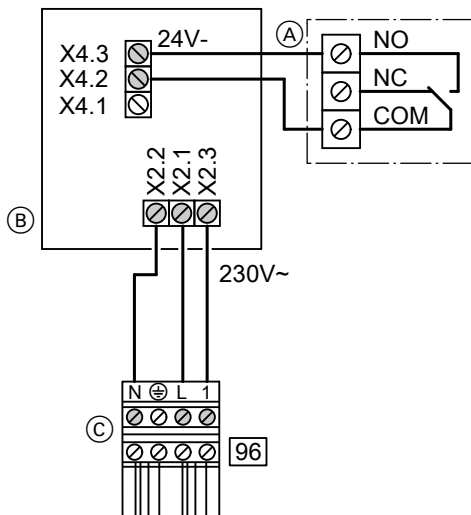
Heat generator installation and service instructions

- (A) Vitotrol 100
- (B) Plug 96

Electrical connection to the control unit (cont.)

Connection to external extension H4

If an LV lead is installed on site.



- (A) Vitotrol 100, type UTDB
- (B) External extension H4 for Vitopend and Vitodens
- (C) Plug 96 to control unit

Recommended connecting cable

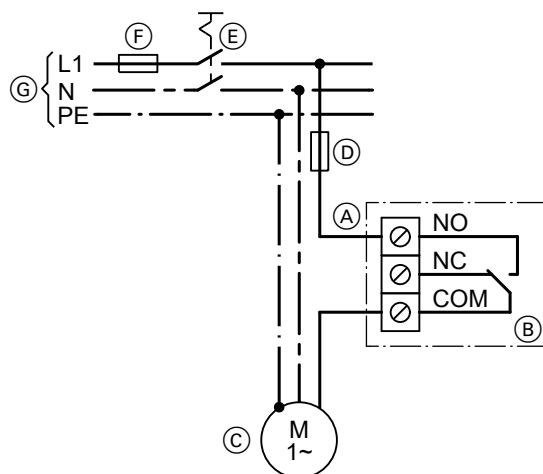
- 2-core cable with a cross-section of 0.75 mm² for low voltage

Electrical connection to the pump/mixer

Connecting the heating circuit pump

The Vitotrol 100 controls the room temperature by starting and stopping the heating circuit pump.

Electrical connection to the pump/mixer (cont.)



- (A) Vitotrol 100, type UTDB
- (B) The contact position corresponds to heating circuit pump "OFF"
- (C) Heating circuit pump
- (D) MCB/fuse 6 A

- (E) Mains isolator
- (F) MCB/fuse, max. 16 A
- (G) Power supply 230 V~



Danger

Incorrect core allocation can result in serious injury and damage to the appliance. Take care not to interchange wires "L1" and "N".

Note

The power cable to the Vitotrol 100 **must** additionally be protected with a 6 A fuse.

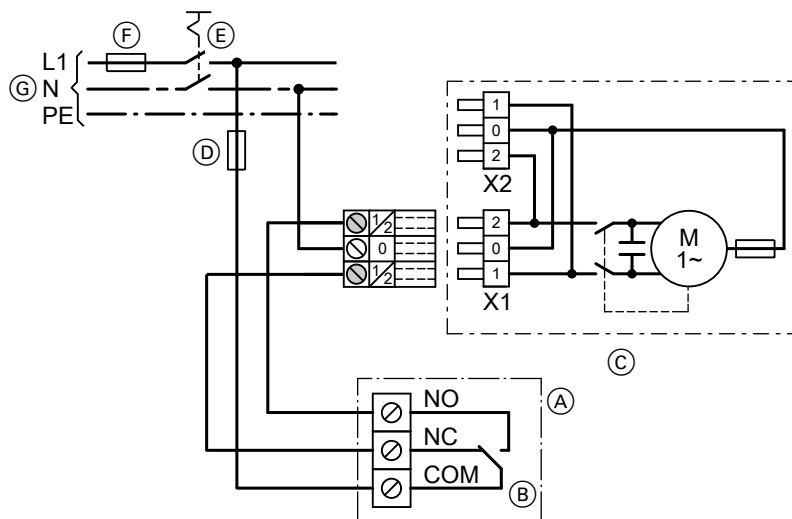
Recommended connecting cable

- 2-core cable with a cross-section of 1.5 mm² for 230 V

Connecting the mixer motor

The Vitotrol 100 controls the room temperature by opening and closing the mixer.

Electrical connection to the pump/mixer (cont.)



- (A) Vitotrol 100, type UTDB
- (B) The contact position corresponds to mixer "Close"
- (C) Mixer motor
- (D) MCB/fuse 6 A
- (E) Mains isolator
- (F) MCB/fuse, max. 16 A
- (G) Power supply 230 V~

If required, change the rotational direction of the mixer motor:

- Re-plug the socket terminal strip from plug-in strip X1 to X2

or

- Rotate the plug by 180 °



Danger

Incorrect core allocation can result in serious injury and damage to the appliance.

Take care not to interchange wires "L1" and "N".

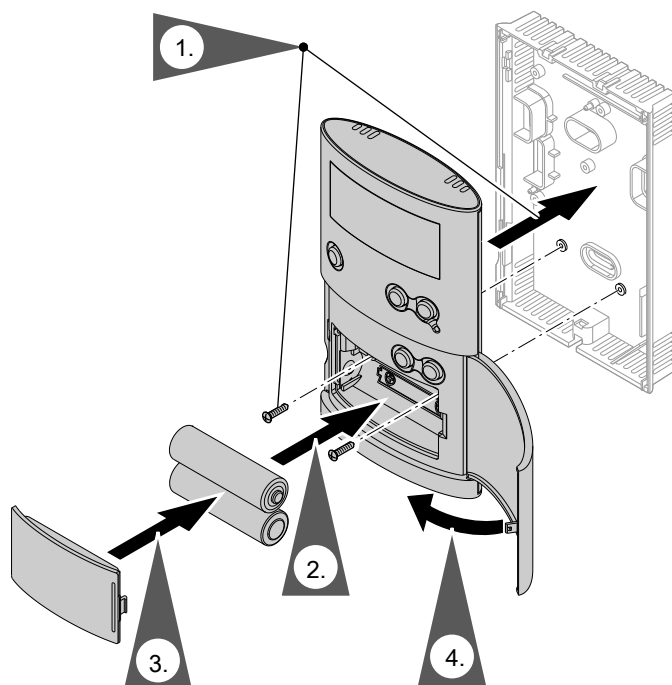
Recommended connecting cable

- 2-core cable with a cross-section of 1.5 mm² for 230 V~

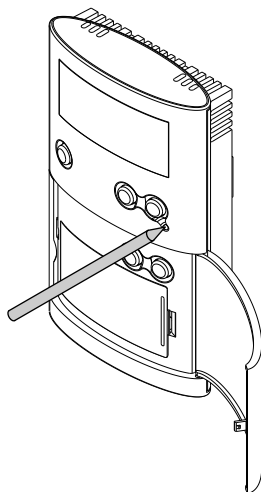
Note

The power cable to the Vitotrol 100 **must** additionally be protected with a 6 A fuse.

Assembling the Vitotrol 100



Commissioning



1. Open the flap.
2. Use a pointed object to press reset.
3. Select language with ▼/▲.
4. Confirm with **OK**.
5. Set current time and date with ▼/▲.
6. Confirm with **OK**.

Specification

Rated voltage	3 V– Battery LR 6/AA
Rated breaking capacity of the floating contact	
■ Max.	6(1) A, 230 V~
■ Min.	1 mA, 5 V–
Ambient temperature	
■ During operation	0 to 40 °C
■ During storage and transport	-25 to 65 °C
IP rating	IP 20
Safety category	II
Terminals suitable for the following cables	
■ Solid, single core cables	Max. 2.5 mm ²
■ Flexible cables	Max. 2.5 mm ²

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