Installation and service instructions

for contractors

Vitotrol 100
Type UTA

Room thermostat for room temperature-dependent operation

VITOTROL 100

5862628 GB 3/2021

Please keep safe.

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.

! **Please note**
This symbol warns against the risk of material losses and environmental pollution.

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

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.
- The system must be commissioned by the system installer or a qualified person authorised by the installer.

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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

Safety instructions for working on the system

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.

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Safety instructions (cont.)

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.

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.

Repair work

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.

Safety instructions (cont.)

Auxiliary components, spare and wearing parts

! **Please note**
Spare and wearing parts that have not been tested together with the system can compromise its function. Installing non-authorised components and making non-approved modifications or conversions can compromise safety and may invalidate our warranty.

For replacements, use only original spare parts supplied or approved by Viessmann.

Safety instructions (cont.)

Safety instructions for operating the system

If you smell gas

Danger
Escaping gas can lead to explosions which may result in serious injury.
- Do not smoke. Prevent naked flames and sparks. Never switch lights or electrical appliances on or off.
- Close the gas shut-off valve.
- Open windows and doors.
- Evacuate any people from the danger zone.
- Notify your gas or electricity supply utility from outside the building.
- Have the power supply to the building shut off from a safe place (outside the building).

If you smell flue gas

Danger
Flue gas can lead to life threatening poisoning.
- Shut down the heating system.
- Ventilate the installation site.
- Close doors to living spaces to prevent flue gases from spreading.

What to do if water escapes from the appliance

Danger
If water escapes from the appliance there is a risk of electrocution.
Switch OFF the heating system at the external isolator (e.g. fuse box, domestic distribution board).

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Safety instructions (cont.)

Danger
If water escapes from the appliance there is a risk of scalding.
Never touch hot heating water.

Condensate

Danger
Contact with condensate can be harmful to health.
Never let condensate touch your skin or eyes and do not swallow it.

Flue systems and combustion air

Ensure that flue systems are clear and cannot be sealed, for instance due to accumulation of condensate or other external causes.
Ensure an adequate supply of combustion air.

Inform system users that subsequent modifications to the building characteristics are not permissible (e.g. cable/pipework routing, cladding or partitions).

Danger
Leaking or blocked flue systems, or an inadequate supply of combustion air can cause life threatening poisoning from carbon monoxide in the flue gas.
Ensure the flue system is in good working order. Vents for supplying combustion air must be non-sealable.

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Safety instructions (cont.)

Extractors

Operating appliances that exhaust air to the outside (extractor hoods, extractors, air conditioning units, etc.) can create negative pressure. If the boiler is operated at the same time, this can lead to a reverse flow of flue gas.

⚠ **Danger**
The simultaneous operation of the boiler and appliances that exhausts air to the outside can result in life threatening poisoning due to a reverse flow of flue gas.
Fit an interlock circuit or take suitable steps to ensure an adequate supply of combustion air.

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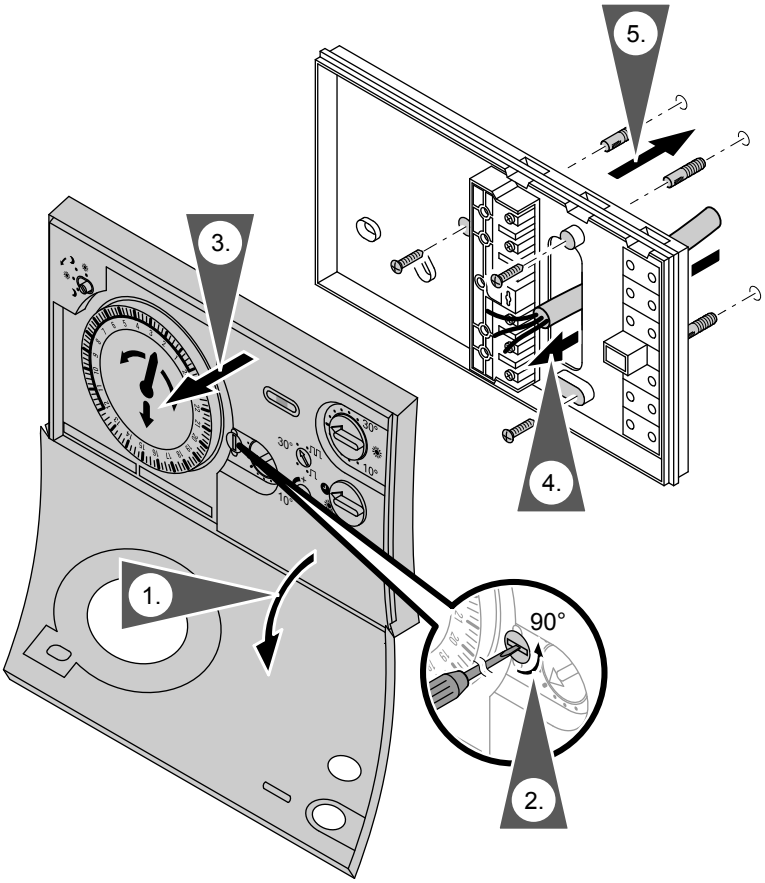
Installation site

- In the main living room on an internal wall opposite radiators.
- Approximately 1.5 m above floor level.
- Away from windows or doors.
- Not on shelves or in recesses.
- Away from heat sources (radiators, direct sunlight, fireplace, TV set etc.).

Never install further controllers in this main living room. If the radiators are equipped with thermostatic valves, these must always be fully opened.

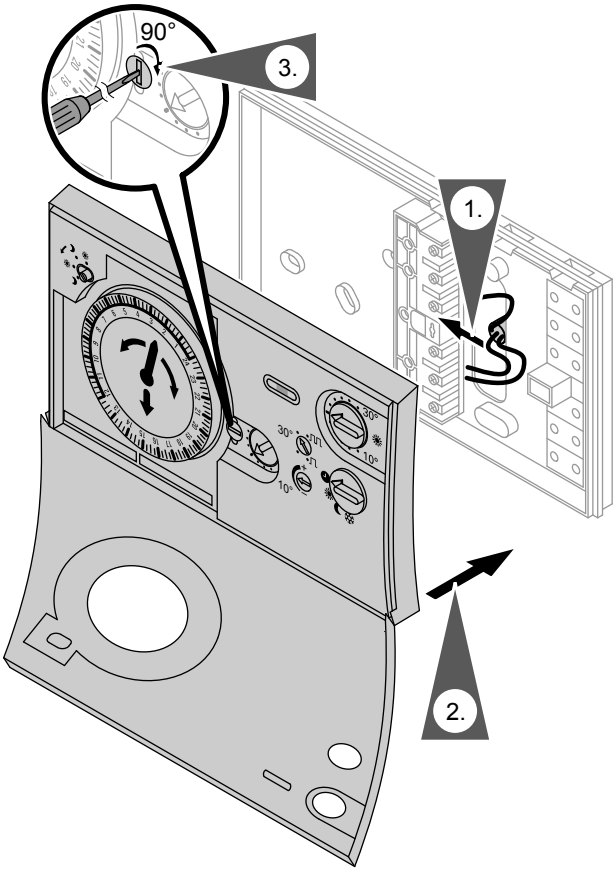
Fitting the room thermostat



Electrical connection

Recommended connecting cable:
- Without earth conductor: 3 x 1.5 mm²
- With earth conductor: 4 x 1.5 mm²

Electrical connection (cont.)

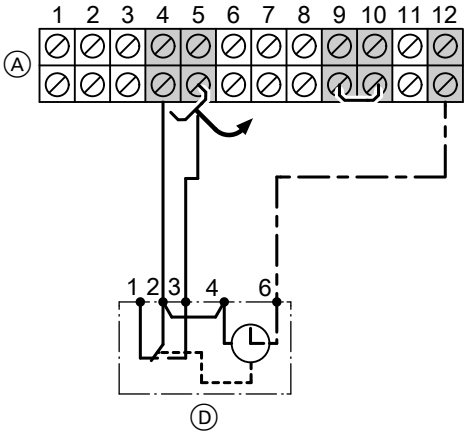


Information on step 1
Press cables flat into the base.

Wiring subject to the type of Vitotronic 100, see the following chapter.

Electrical connection (cont.)

Connection to Vitotronic 100 with terminal strip

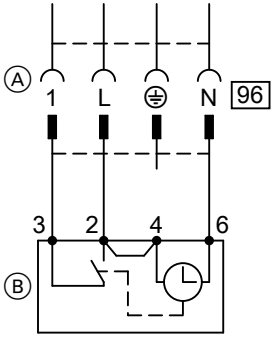


Ⓐ Terminal strip in the Vitotronic 100, type KC3

Ⓓ Vitotrol 100, type UTA

Remove jumper across terminals 4 and 5.

Connection to Vitotronic 100 or heat management unit with plug 96 (4-pin)



Ⓐ Plug 96

Ⓑ Vitotrol 100, type UTA

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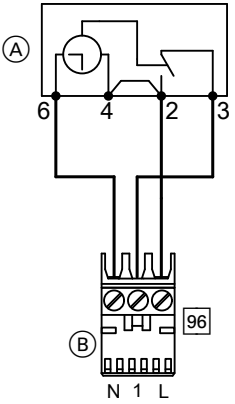
Electrical connection (cont.)

Connection to heat management unit with plug 96 (3-pin)



Further information about connection to the control unit

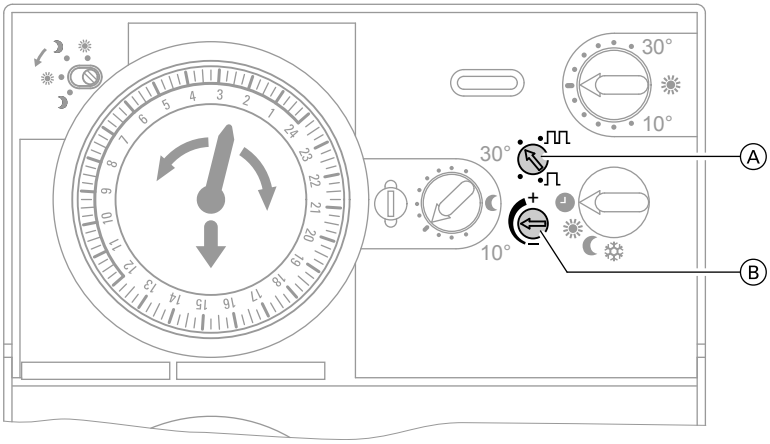
Heat generator installation and service instructions

Ⓐ Vitotrol 100, type UTA
Ⓑ Plug 96

Adjusting the room thermostat

Note
Set parameters for the room thermostat if necessary; see the installation and service instructions for the Vitotronic control unit.

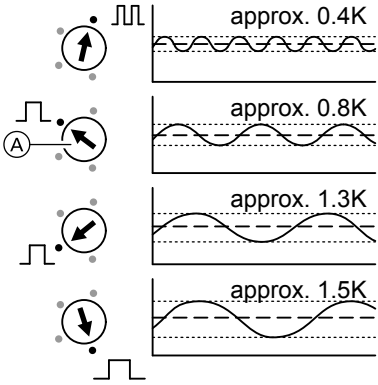
Adjusting the room thermostat (cont.)



Ⓐ Controller for electronic feedback
Ⓑ Controller for adjusting the temperature

Electronic feedback (setting the hysteresis)

The switching hysteresis is influenced by the electronic feedback.
The Vitotrol 100 is set up at the factory for standard mode. Only change this setting if the control unit must be adapted to the heating system.



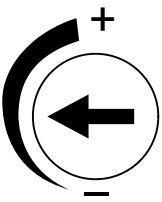
Ⓐ Standard mode (delivered condition)

Bring the controller for the electronic feedback into the required position using a screwdriver.

Adjusting the room thermostat (cont.)

Temperature adjustment

To adapt to local conditions, a temperature adjustment may be required, e.g. when installing on a cold concrete wall.



- Regulated temperature too high:
  To adjust the temperature, turn the controller towards "–"
- Regulated temperature too low:
  To adjust the temperature, turn the controller towards "+"

Repeat if required after the room temperature has stabilised.

Note
Following commissioning, the Vitotrol 100 needs around 1 hour to adjust to its ambient temperature. Users should only then make adjustments to suit their personal requirements.

Specification

Rated voltage	230 V~/50 Hz
Rated breaking capacity of the contact	6 A/250 V~ 1 A/250 V~ cosφ = 0.6
Switching hysteresis	0.4 to 1.5 K
Power consumption	2 W
Safety category	II
IP rating	IP 20
Ambient temperature	
■ During operation	5 to 40 °C
■ During storage and transport	–20 to +40 °C
Function	Type 1B to EN 60730-1

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5862628 Subject to technical modifications.