

Installation and service instructions

for contractors

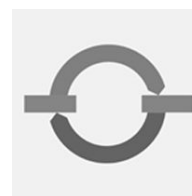
VIESSMANN

Vitotrol 100

Type UTDB-RF2

Room temperature controller with digital time switch and wireless receiver

For applicability, see the last page



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.



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 designed for qualified personnel.

- Work on gas equipment must only be carried out by a qualified gas fitter.
- Work on electrical equipment must 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.

Regulations

Observe the following when working on this system

- all legal instructions regarding the prevention of accidents,
- all legal instructions regarding environmental protection,
- the Code of Practice of relevant trade associations,

- all current safety regulations as defined by DIN, EN, DVGW, TRGI, TRF, VDE and all locally applicable standards,
- Gas Safety (Installation & Use) Regulations
 - the appropriate Building Regulation either the Building regulations, the Building Regulation (Scotland), Building Regulations (Northern Ireland),
 - the Water Fittings Regulation or Water Bylaws in Scotland,
 - the current I.E.E. Wiring Regulations.

If you smell gas



Danger

Escaping gas can lead to explosions which may result in serious injury.

- Never 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.
- Remove all people from the danger zone.
- Notify your gas or electricity supplier from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

Safety instructions (cont.)

If you smell flue gas



Danger

Flue gas can lead to life-threatening poisoning.

- Shut down the heating system.
- Ventilate the boiler room.
- Close all doors leading to the living space.

Working on the system

- When using gas as fuel, also close the main gas shut-off valve and safeguard against unauthorised reopening.
- Isolate the system from the power supply and check that it is no longer 'live', e.g. by removing a separate fuse or by means of a main isolator.
- Safeguard the system against unauthorised reconnection.



Please note

Electronic modules can be damaged by electro-static discharges.

Touch earthed objects, such as heating or water pipes, to discharge static loads.

Repair work



Please note

Repairing components which fulfil a safety function can compromise the safe operation of your heating system.

Replace faulty components only with original Viessmann spare parts.

Ancillary components, spare and wearing parts



Please note

Spare and wearing parts which have not been tested together with the heating system can compromise its function. Installing non-authorised components and non-approved modifications/conversion can compromise safety and may invalidate our warranty. For replacements, use only original spare parts from Viessmann or those which are approved by Viessmann.

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Function

Through its integral room temperature sensor and in conjunction with the wireless receiver, the Vitotrol 100, type UTDB-RF2, achieves a constant room temperature. During the selected periods, there is a changeover between operation with standard room temperature **"Comfort"** and operation with reduced room temperature **"Eco"** or **"Reduced"**. DHW is provided during the selected periods.

Installation location

Vitotrol 100

- In the main living room on an internal wall opposite radiators.
- Approx. 1.5 m from the floor.
- Not near windows or doors.
- Not on shelves or in recesses.
- Not near heat sources (radiators, direct sunlight, fireplace, TV set, etc.).
- Wireless reception (good communication with the wireless receiver) must be possible (see page 12).

Do not install further controllers in this main living room. Open any thermostatic radiator valves fully.

Wireless receiver

- Installation in the boiler.
- Wireless reception must be possible (see page 12).
(Subject to the material used and the thickness of walls and ceilings, the range may be 10 to 30 m).

Note

Conducting metallic materials have a strong negative effect on reception.

Installation sequence

Installing and connecting the wireless receiver

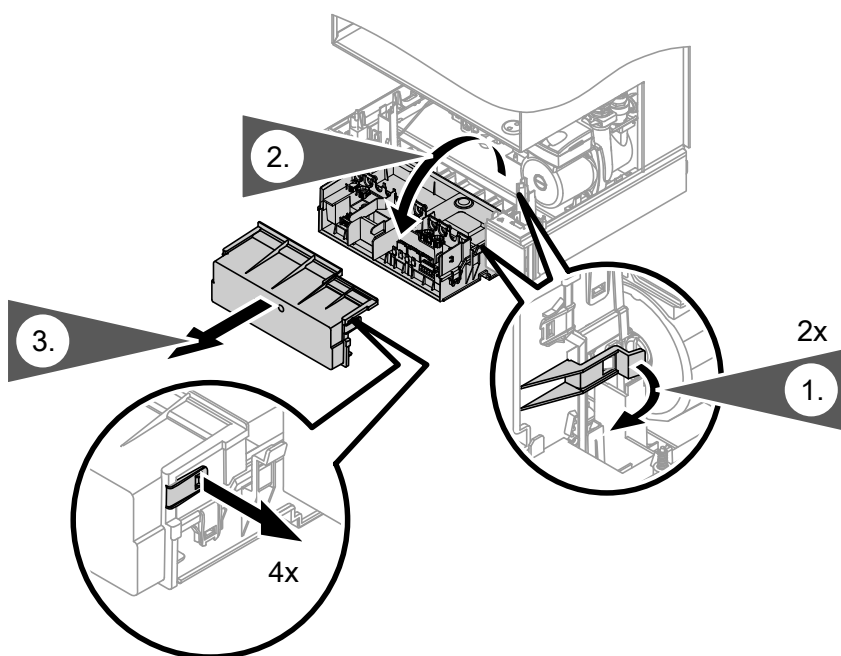
Opening the control unit casing



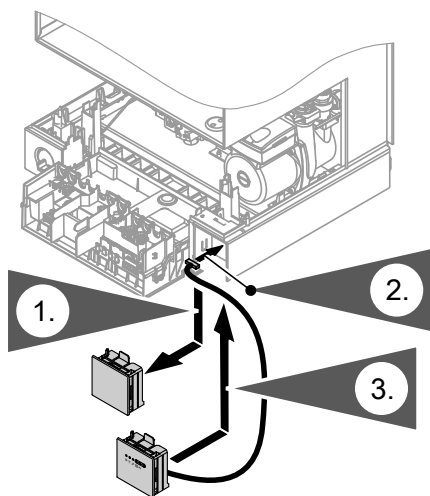
Please note

Electronic modules can be damaged by electrostatic discharges.

Before beginning work, touch earthed objects, such as heating or water pipes, to discharge static loads.



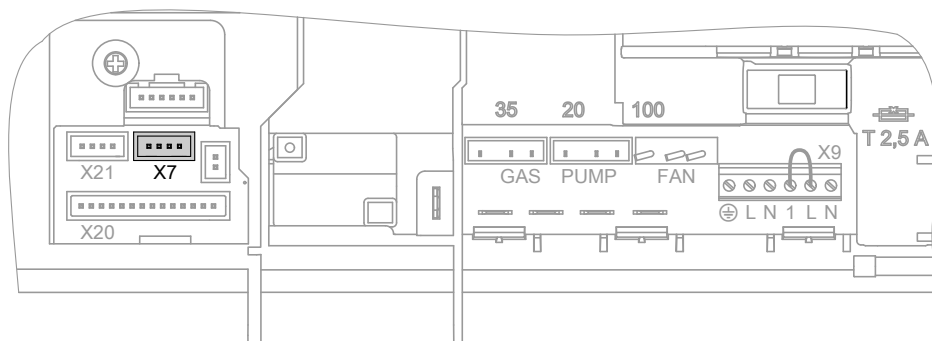
Installing the wireless receiver



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Installing and connecting the wireless receiver (cont.)

Connecting the wireless receiver



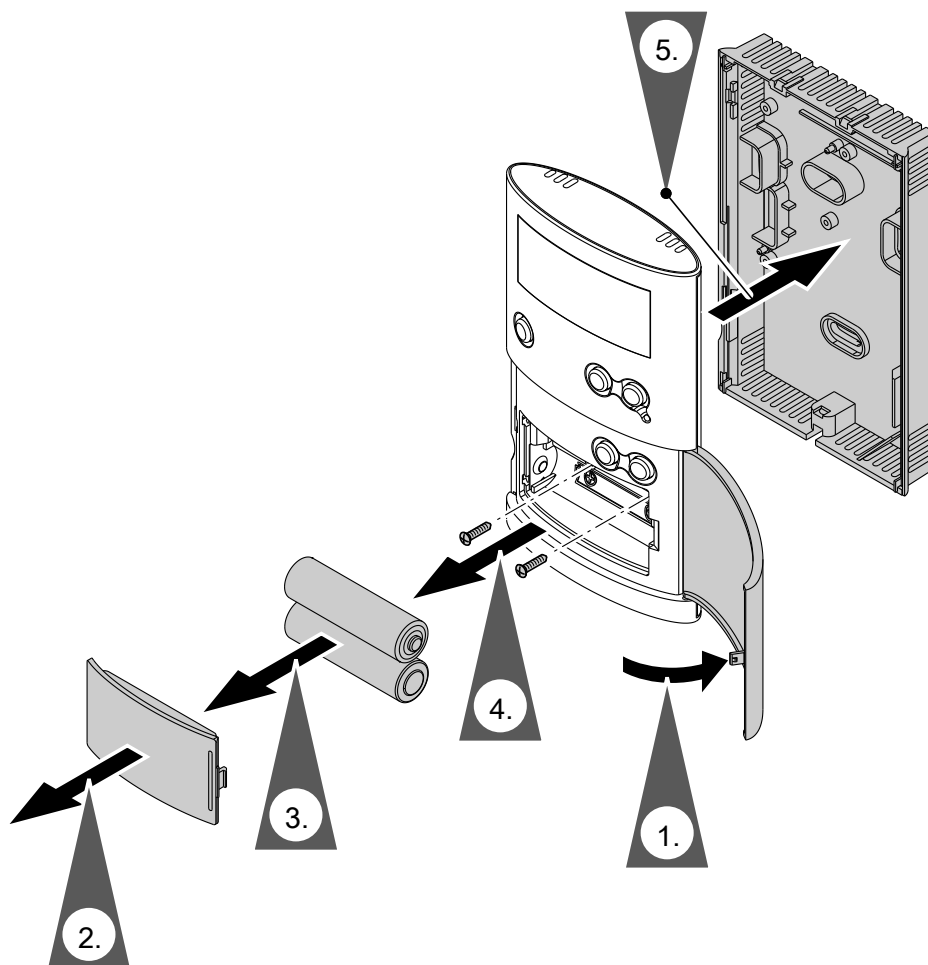
1. Insert the wireless receiver cable into the control unit casing and push the plug into "X7". The plug must click home.
2. Close the control unit casing and flip up the control unit.

Note

Route the cable in such a way that it does not become trapped as the control unit casing is closed.

Installing the Vitotrol 100

Opening the Vitotrol 100

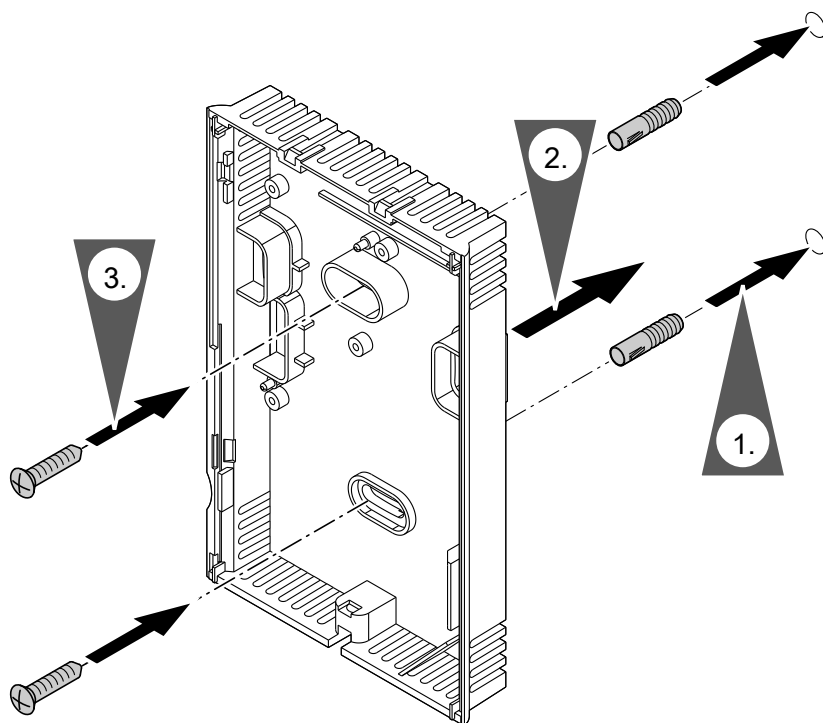


Fitting the wall mounting base

Always **check reception** prior to fitting to the wall (see page 12).

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

Installing the Vitotrol 100 (cont.)

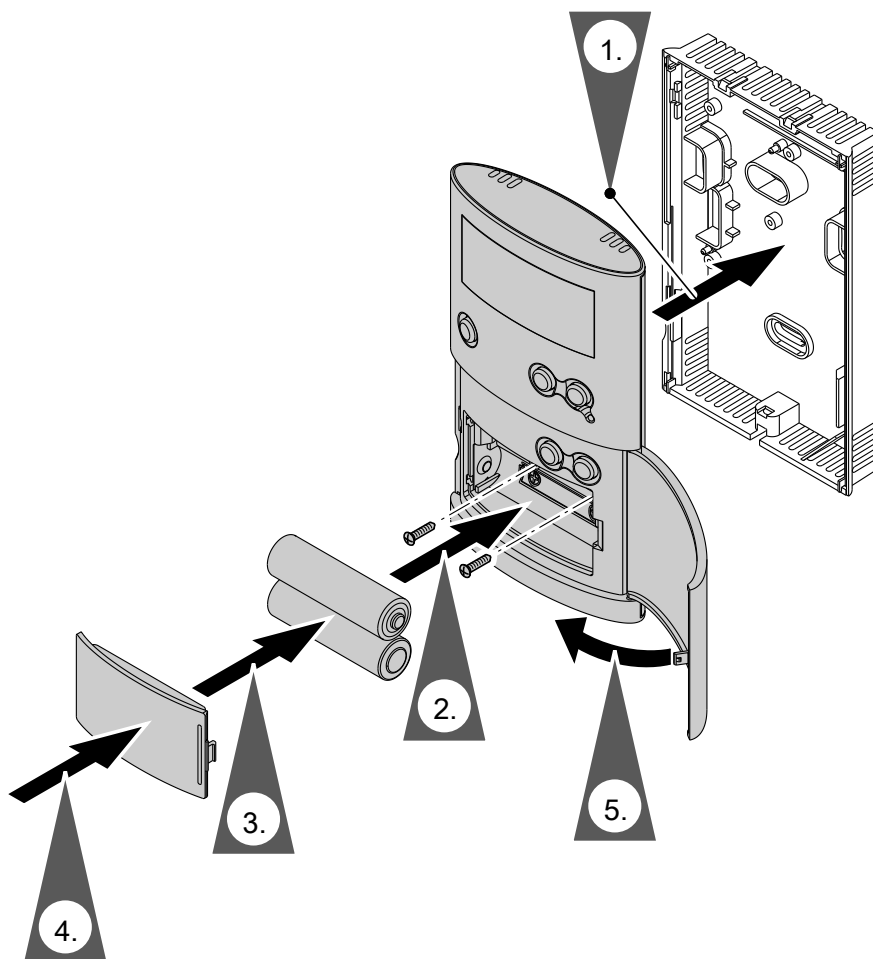


Installation

Installation sequence

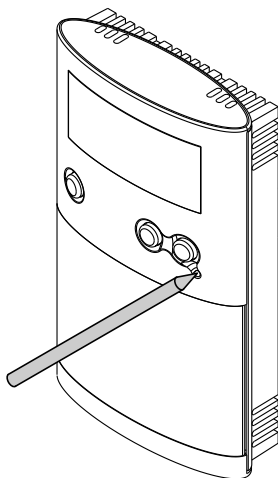
Installing the Vitotrol 100 (cont.)

Assembling the Vitotrol 100



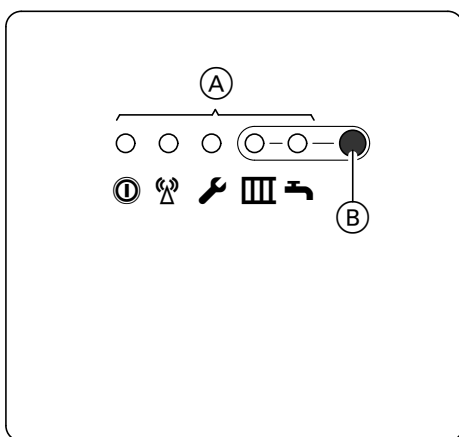
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Commissioning the Vitotrol 100



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

Commissioning the wireless receiver



Several Vitotrol 100 appliances with wireless receiver can be installed in one building. Each pair is matched in the factory. Each Vitotrol 100 can only communicate with its allocated wireless receiver.

Note

If LED  flashes, the wireless receiver has not recognised the signal from the Vitotrol 100. If this is the case, change the address code (see page 13).

- Ⓐ LED
- ① Operating display
 - 📶 Address recognition
 - 🔧 Service function
 - ▮ Heat demand for central heating
 - 🚰 Heat demand for DHW heating

Commissioning the wireless receiver (cont.)

Testing the strength of reception

1. Press and hold **(B)** on the wireless receiver for approx. 5 s until LED  flashes.
2. **Carry out the following settings on the Vitotrol 100:**
 Operating instructions
 Open the flap of the Vitotrol 100.
3. Press **≡** twice.
4. Select **"Settings"** with **▼/▲**.
5. Confirm with **OK**.
6. Select **"Service"** with **▼/▲**.
7. Press **OK** four times to confirm. **"Transmitting"** appears on the display.
 The transfer takes approx. 30 s.

If the signal strength is sufficient, LED  shows green; otherwise it shows red. Then check the installation location of the Vitotrol 100.

Testing switching outputs

1. Press **(B)** on the wireless receiver (see diagram on page 11) repeatedly until the required condition is reached (see following table).
2. Terminate the function:
 Press **(B)**.
 or
 automatic if the switching output is closed via the setting on the Vitotrol 100.

Function	LED ≡	LED 
Central heating and DHW heating off	OFF	OFF
Central heating off, DHW heating enabled	OFF	ON
Central heating enabled, DHW heating off	ON	OFF
Central heating and DHW heating enabled	ON	ON

Changing the address code

If the wireless connection between the Vitotrol 100 and the wireless receiver is faulty, change the address code.

1. Press and hold **(B)** on the wireless receiver (see diagram on page 11) for approx. 10 s until LED **III** flashes.

2. **Carry out the following settings on the Vitotrol 100:**



Operating instructions

Open the flap of the Vitotrol 100.

3. Press **≡** twice.
4. Select **"Settings"** with **▼/▲**.
5. Confirm with **OK**.
6. Select **"Service"** with **▼/▲**.
7. Press **OK** three times to confirm.
8. Select **"Address code"** with **▼/▲**.
9. Confirm with **OK**.
After approx. 30 s the display shows **"Transmitting"**.
The transfer takes approx. 30 s.
During the transfer, LED **Ⓔ** flashes briefly.

Once the address code is recognised, the LEDs go out; otherwise repeat the procedure.

Specification

Specification

Vitotrol 100

Rated voltage

3 V–
2 batteries LR 6/AA

Ambient temperature

- during operation
- during storage and transport

0 to 40 °C
-25 to +60 °C

IP rating

IP 20 to EN 60529;

Protection class

II to EN 60730-1

Radio frequency

868.1 MHz

Wireless receiver

Power supply

From the control unit

Ambient temperature

0 to 40°C

IP rating

As for the boiler

Transfer from the Vitotrol 100:

- With every heat demand and consumption.
- With every demand for DHW heating.
- Cyclically every 20 min.

Declaration of Conformity

We, Viessmann Werke GmbH&Co KG, D-35107 Allendorf, confirm as sole responsible body that the product **Vitotrol 100, type UTDB-RF2**, complies with the following standards:

EN 60730-2-9

EN 60335 (receiver only)

EN 50371

EN 55014

ETSI EN 300 220-2

ETSI EN 301 489-1

ETSI EN 301 489-3

In accordance with the following Directives, this product is designated with **CE**:

2004/108/EC

1999/5/EC

2006/95/EC

Allendorf, 1 February 2009

Viessmann Werke GmbH&Co KG



pp. Manfred Sommer

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chlorine-free bleached paper



Applicability

Applies to the Vitotrol 100, type UTDB-RF2
Part no. 7426 467

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