

Installation instructions

for contractors

VIESSMANN

Vitotrol 100

Type UTA-RF

Room thermostat with analog time switch and wireless receiver
for the Vitodens 100-W, type WB1B

Part no: 7296 064



VITOTROL 100



Safety instructions



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

Safety instructions explained



Please note

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

- 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.

Note

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

Target group

These instructions are exclusively designed for qualified personnel.

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

Regulations

Observe the following when working on this system

- all legal instructions regarding the prevention of accidents,
- all legal instructions regarding environmental protection,

Working on the system

- 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 mains isolator.
- Safeguard the system against unauthorised reconnection.
- When using gas as fuel, also close the main gas shut-off valve and safeguard against unauthorised reopening.

Index

Preparing for installation	
Before installation	4
■ Information regarding use	4
■ Installation location	4
Installation sequence	
Installing the wireless receiver	5
■ Opening the control unit casing	5
■ Installing the wireless receiver	6
Fitting the clock thermostat	8
Inserting batteries	9
Adjusting the room thermostat	10
Wireless receiver commissioning	13
Specification	15

Before installation

Information regarding use

Combine only Vitotrol and wireless receivers from the same pack, as only these are matched to each other.

Installation location

Clock thermostat

- In the main living room on an internal wall opposite radiators.
- Approx. 1.5 m from the floor.
- Not near windows and doors.
- Not in shelves or 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 13).

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

Wireless receiver

- Built into the boiler.
- Wireless reception must be possible (see page 13).
(Subject to the material used and the thickness of walls and ceilings, the range may be 10 to 30 m).

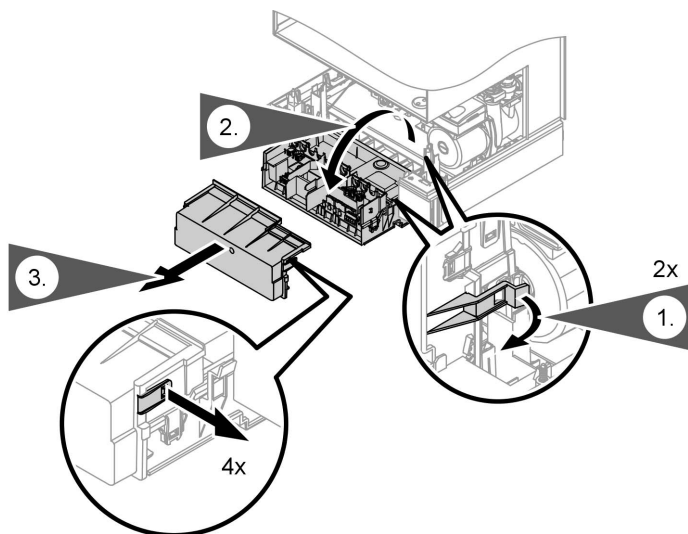
Note

Conducting metallic materials have a strong negative effect on reception.

Installing the wireless receiver

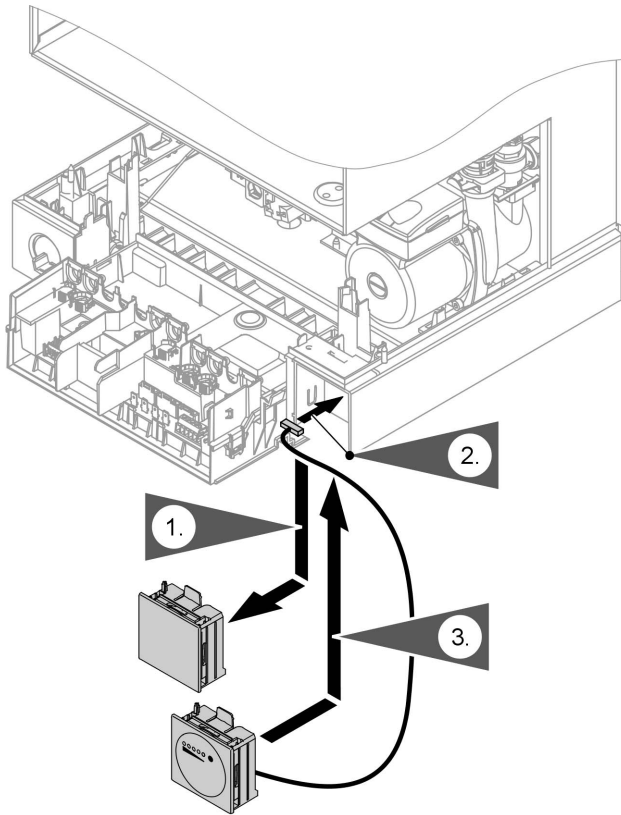
Opening the control unit casing

- ! **Please note**
Electronic modules can be damaged by electrostatic discharges.
Touch earthed objects, such as heating or water pipes, to discharge static loads.



Installing the wireless receiver (cont.)

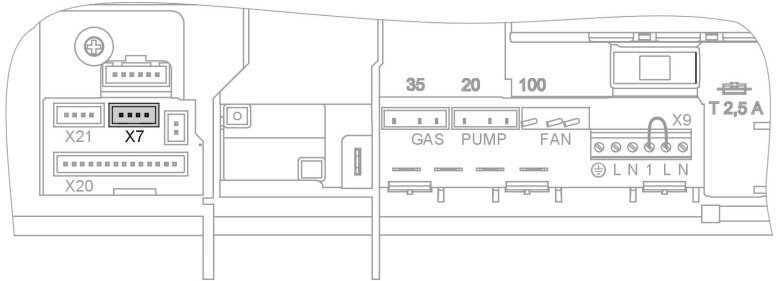
Installing the wireless receiver



1. Remove the cover from the control unit support.
2. Push the wireless receiver cable through the opening in the control unit support.
3. Insert the wireless receiver into the control unit support.

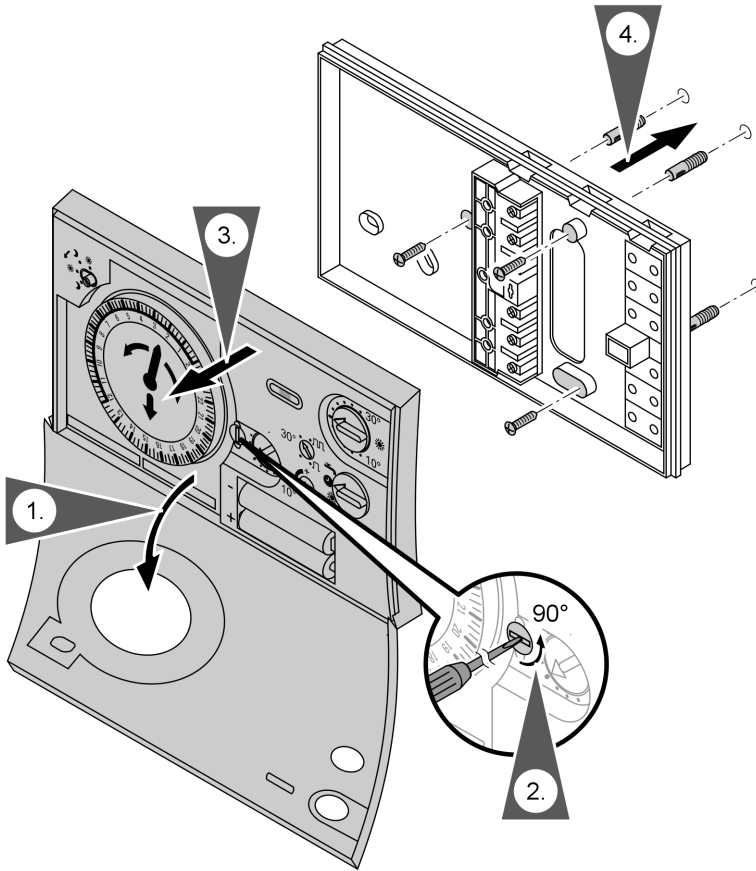


Installing the wireless receiver (cont.)

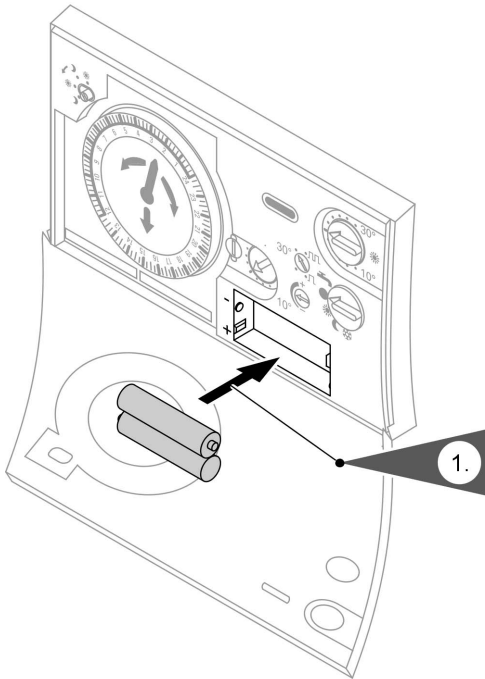


4. Insert the wireless receiver cable into the control unit casing and push the plug onto terminal "X7". The plug must click home.
5. Close the control unit casing and flip up the control unit.

Fitting the clock thermostat

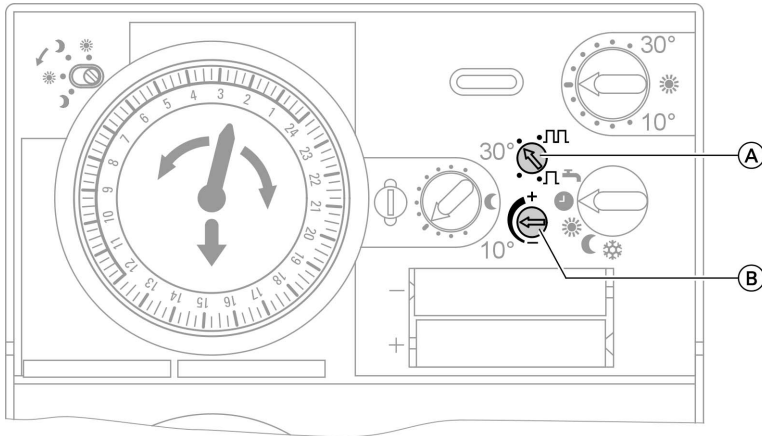


Inserting batteries



1. Insert batteries into the battery compartment (observe correct polarity).

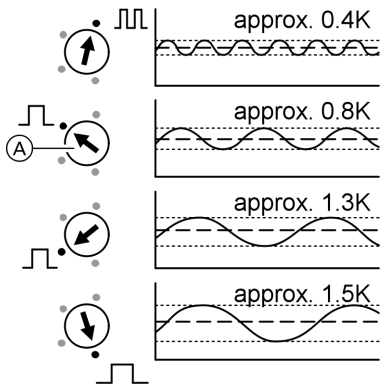
Adjusting the room thermostat



- (A) Controller for electronic feedback (B) Temperature matching controller

Electronic feedback (hysteresis setting)

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



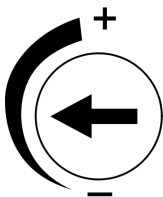
Bring the controller for the electronic feedback into the required position using a screwdriver.

- (A) Standard mode (delivered condition)

Adjusting the room thermostat (cont.)

Temperature matching

A matching of temperatures may be required to adapt the controller to local conditions, e.g. when installing it on a cold concrete wall.



- Regulated temperature too high:
Turn the controller towards "-" to adjust the temperature

- Regulated temperature too low:
Turn the controller towards "+" to adjust the temperature

Repeat if required after the room temperature has stabilised.

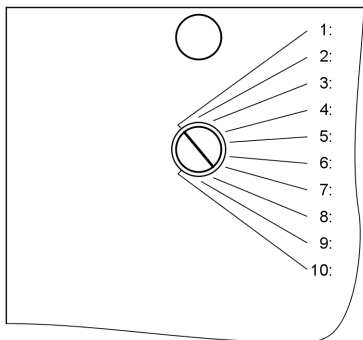
Note

The Vitotrol 100 requires approx. 1 hour after commissioning to assimilate to the ambient temperature. Users should only then make adjustments to suit their personal requirements.

DHW heating

The DHW heating function can be modified at the rotary selector at the back of the Vitotrol.

In the delivered condition, the rotary selector is set to "1".



5355 2/6

Adjusting the room thermostat (cont.)

Rotary selector position	DHW heating function
1	DHW heating in accordance with the selected time program
2	DHW heating "permanently ON", independent of the selected time program
3	DHW heating "permanently OFF", independent of the selected time program

Wireless receiver commissioning

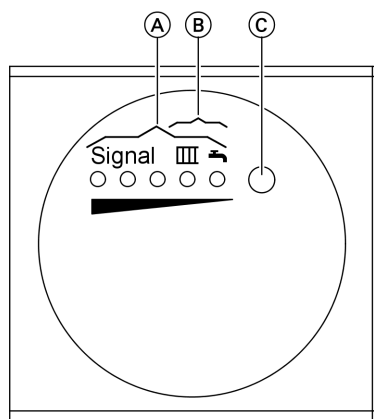
Several clock thermostats and wireless receivers can be installed in a single building. Both are matched up to each other in the factory. If several clock thermostats are fitted with the wireless receiver in a single building complex, never swap the respective clock thermostat and wireless receiver, as each clock thermostat can only communicate with the respectively allocated wireless receiver.

Testing the strength of reception

At the back of the clock thermostat, turn the rotary selector to "10".

The clock thermostat sends a signal every 4 s for a duration of 5 minutes. The reception signal strength is indicated by the number of lit LEDs. See the following table.

After commissioning, set the rotary selector of the wireless receiver back to the required position for DHW heating (see page 11).








- Ⓐ LED for indicating the strength of reception
- Ⓑ LED for the switching contact position
- Ⓒ Manual activation for switching contact

Lit LED (from the right)	Description
none	no reception
1	Insufficient reception strength
2	Insufficient reception strength
3	Adequate reception strength
4	Reception good to very good
5	Reception very good

Wireless receiver commissioning (cont.)

Testing switching outputs

1. Press  at the wireless receiver (see diagram on page 13)
The LED "" indicates the switching state:
LED ON: Output "ON"
LED OFF: Output "OFF"
2. Press  again
The LED "" indicates the switching state:
LED ON: Output "ON"
LED OFF: Output "OFF"
3. Terminate the function:
Press  at the wireless receiver or
automatic if the switching output is closed via the setting of the clock thermostat.

Specification

Clock thermostat

Rated voltage	3 V– 2 batteries LR 6
Switching hysteresis	0.4 to 1.5 K
Power consumption	2 W
Protection class	II
Protection	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

Wireless receiver

Reception frequency	868 MHz
Power supply	from the control unit
Ambient temperature	0 to 55 °C
Protection	IP 20 to EN 60529
Protection class	II to EN 60730-1

- The clock thermostat transmits:
 - with every heat demand and consumption
 - with each changeover of the time switch for DHW heating
 - and cyclically every 30 min
- All switching data are saved in non-volatile form in case of power failure. No heat demand is executed during power failure.

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