

Installation and service instructions

for contractors

VIESSMANN

Vitotrol 300 RF

Wireless remote control for one, two or three heating circuits

For applicability, see the last page



VITOTROL 300 RF



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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Application information

Vitotrol 300 RF with integral wireless transmitter for operation with the wireless base station (accessory for Vitotronic boiler and heating circuit control units) and with Vitotronic 200 RF, type HO1C.

Up to three heating circuits can be operated with one Vitotrol 300 RF; alternatively one Vitotrol 300 RF can be employed for each heating circuit in a single heating system.

Installation site

- Vitotrol 300 RF with table-top dock
- Vitotrol 300 RF with wall mounting bracket

Operation with or without room temperature hook-up

- **Weather-compensated mode**
Installation in any room (preferably in the main living room).

- **Operation with room temperature hook-up** (also see illustration on page 7)

The integral room temperature sensor captures the actual room temperature and effects any necessary correction of the flow temperature.

The captured room temperature is dependent on the installation site:

- On an internal wall in the main living room, at a height of approx. 1.5 m from the floor.
- Not next to windows or doors.
- Not above radiators.
- Not on shelves, in recesses, etc.
- Not near heat sources (direct sunlight, fireplace, TV set, etc.).

Do not install further control devices in this room. Any thermostatic radiator valves must always be fully opened.

Installation site (cont.)

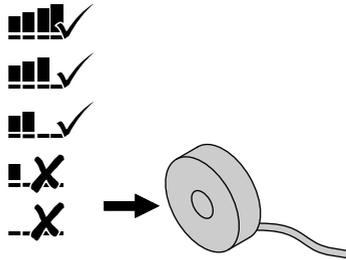
Wireless connection

Select the installation site of the Vitotrol 300 RF so that the radio signals are beamed as vertically as possible through walls and floors to the wireless base station or Vitotronic 200 RF.

Prior to the final fitting, commission the Vitotrol 300 RF and check the transmission and reception quality at the intended installation site.

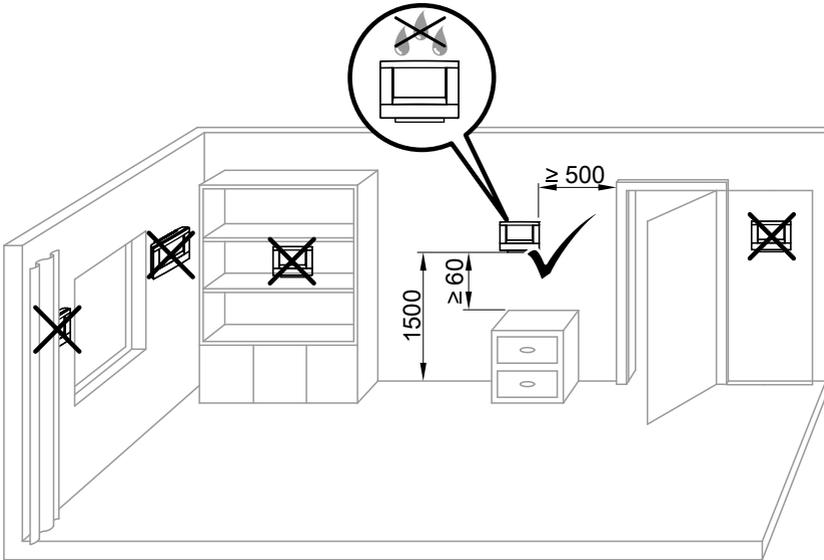
Note

Conducting metallic materials (e.g. steel-reinforced concrete floors) have a strong negative effect on reception.

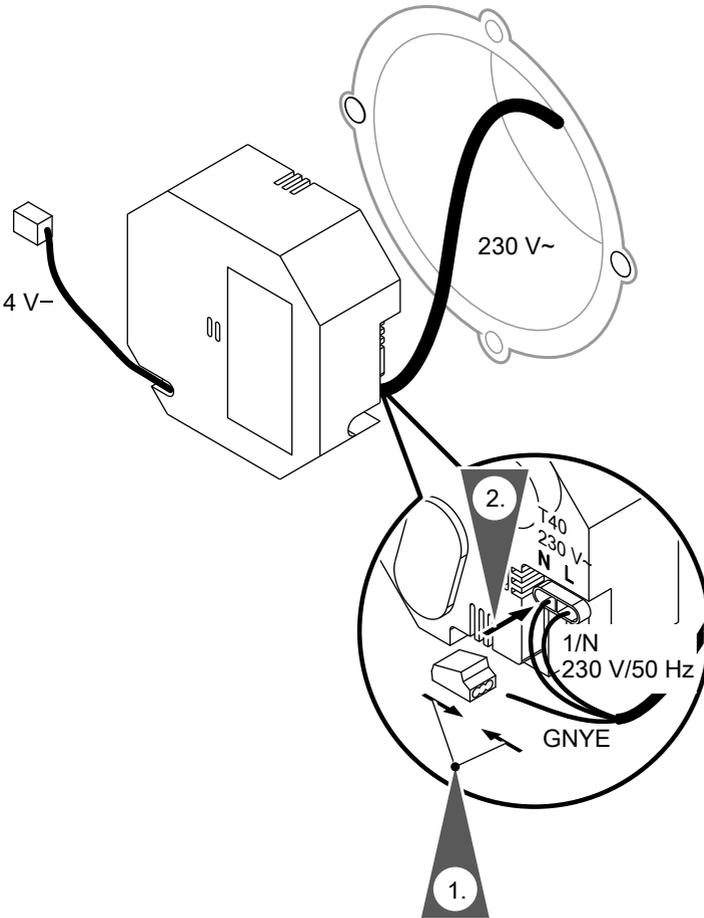


When looking for the right installation site, a reception quality of at least three bars or -83 dBm should be displayed (see page 19).

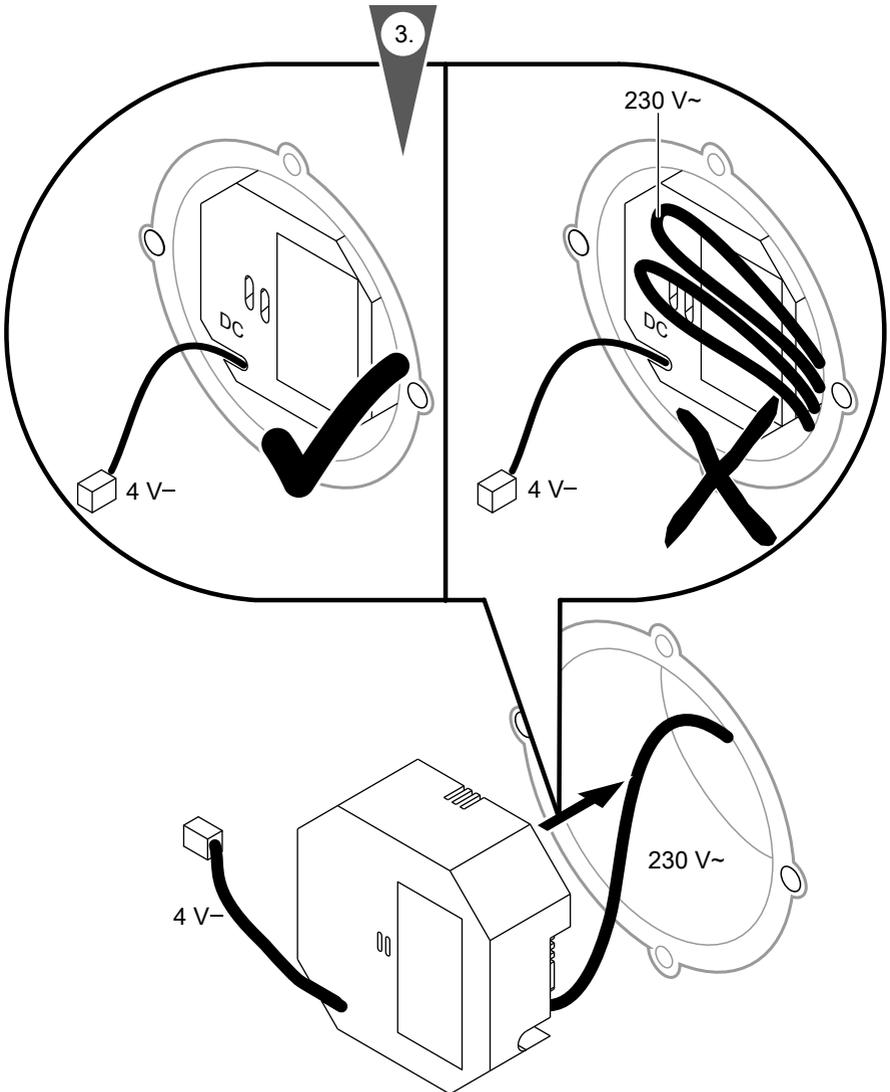
Installation of the wall mounting bracket



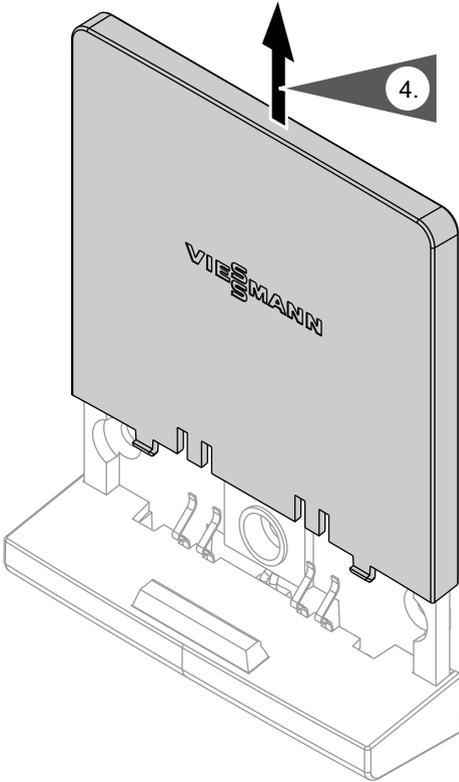
Installation of the wall mounting bracket (cont.)



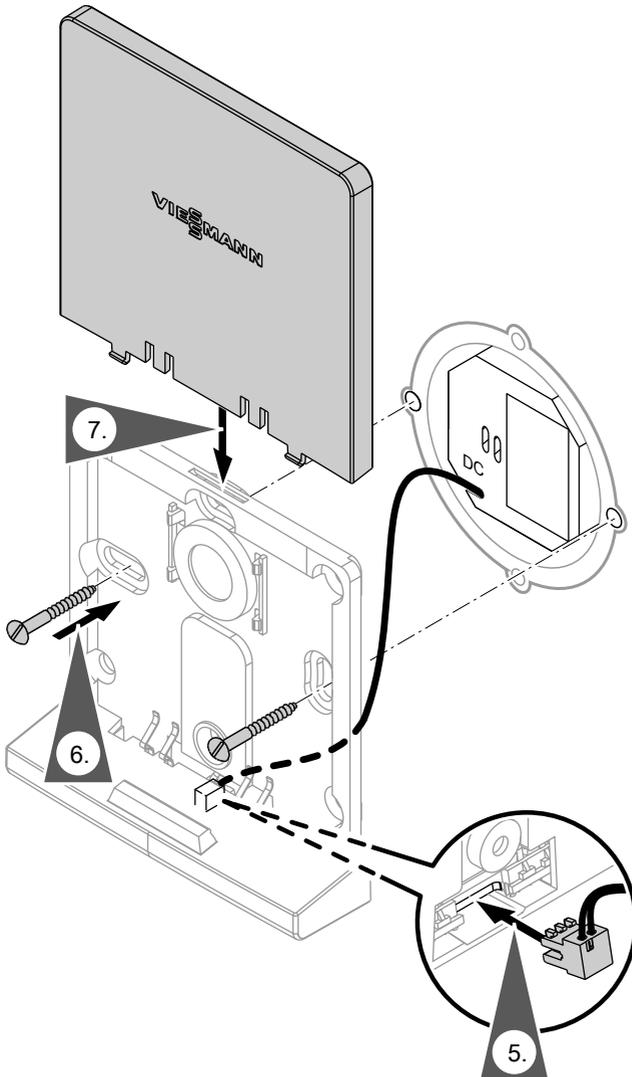
Installation of the wall mounting bracket (cont.)



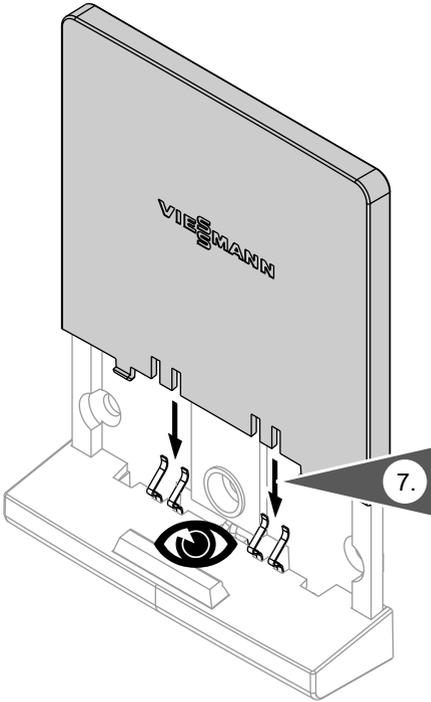
Installation of the wall mounting bracket (cont.)



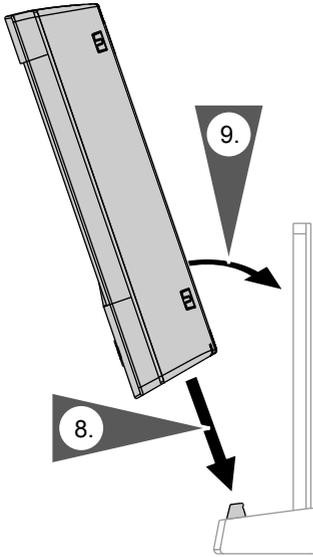
Installation of the wall mounting bracket (cont.)



Installation of the wall mounting bracket (cont.)



Installation of the wall mounting bracket (cont.)



Commissioning the Vitotrol 300 RF

Prior to commissioning, observe the following:

- The wireless base station must be connected to the control unit via KM BUS.



Separate installation and service instructions

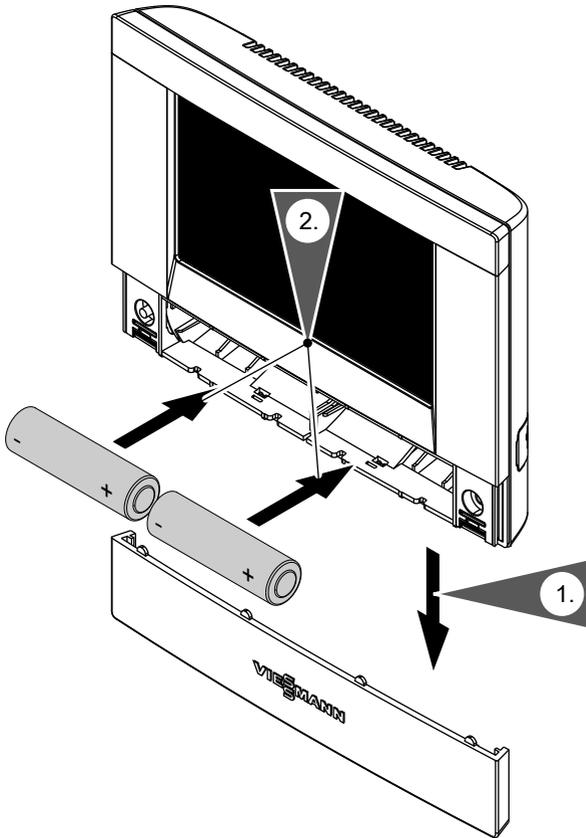
- The control unit to which the wireless base station is connected must be switched on.
- Position the Vitotrol 300 RF for commissioning close to the wireless base station Vitotronic 200 RF.
- Rechargeable batteries supply power to the Vitotrol 300 RF. The table-top dock and wall mounting bracket are also charging stations for the batteries.

Note

As soon as there is a power supply to the Vitotrol 300 RF, the commissioning assistant starts automatically.

Charging batteries: See operating instructions for Vitotrol 300 RF.

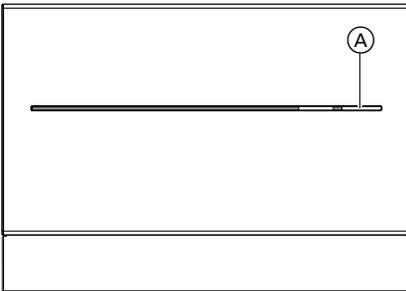
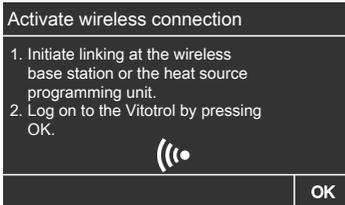
Commissioning the Vitotrol 300 RF (cont.)



Commissioning in connection with the wireless base station

1. Connect Vitotrol 300 RF to power supply.
The commissioning assistant starts automatically.

Commissioning the Vitotrol 300 RF (cont.)



2. Select language

Note

When the unit is first commissioned, "Select language [Sprache wählen]" is displayed in German .

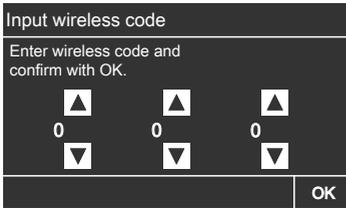
"Activate wireless connection" appears.

3. Press (A) on the wireless base station:

- Operation **without** wireless repeater: for 4 s.
The green LED on the wireless base station flashes slowly.
- Operation **with** wireless repeater: for 8 s.
The green LED on the wireless base station flashes quickly.

4. On the Vitotrol 300 RF, touch "OK". The Vitotrol 300 RF transmits a signal to log on to the wireless base station.

Commissioning the Vitotrol 300 RF (cont.)

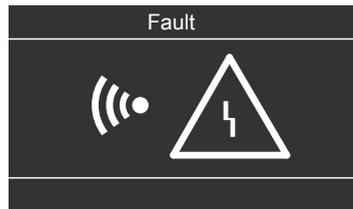


5. Enter 3-digit PIN code.

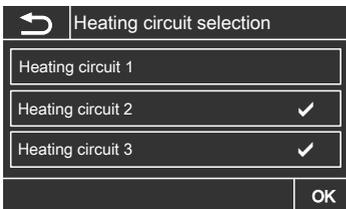
- The PIN code is printed on the protective foil on the front of the wireless base station. Make a note of it here __ __ __. If the protective foil has been removed, use the PIN code given in the installation and service instructions for the wireless base station.
- Use ▲/▼ to enter the PIN code.
- Confirm the PIN code with "OK".

Note

If logging on was not successful:



In this case, activate the RF connection again (see step 3).



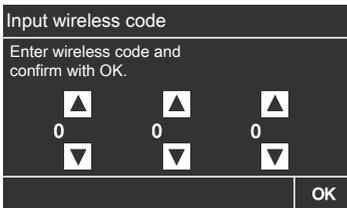
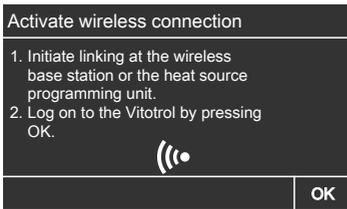
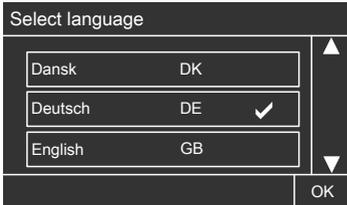
- ### 6. Select heating circuits that should be operated via the Vitotrol 300 RF, and confirm with "OK".
- Initialisation bar is running (can take approx. 5 min). After successful initialisation, the standard menu appears.

Note

Radio transmission can take some time, so there may be a delay in the display of symbols.

Commissioning the Vitotrol 300 RF (cont.)

Commissioning in connection with Vitotronic 200 RF, type HO1C



1. Connect Vitotrol 300 RF to power supply.
The commissioning assistant starts automatically.

2. Select language.

Note

When the unit is first commissioned, "Select language [Sprache wählen]" is displayed in German .

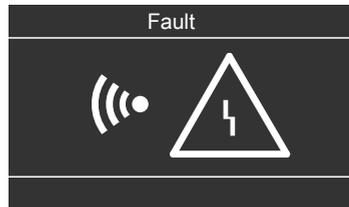
"Activate wireless connection" appears.

3. On the Vitotrol 300 RF, touch **"OK"**.
The Vitotrol 300 RF transmits a signal to log on to the Vitotronic 200 RF.

4. Enter 3-digit PIN code. The PIN code is displayed on the Vitotronic 200 RF.

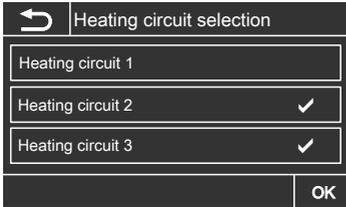
Note

If logging on was not successful:



In this case, activate the RF connection again (see step 3).

Commissioning the Vitotrol 300 RF (cont.)



- Select heating circuits that should be operated via the Vitotrol 300 RF, and confirm with **"OK"**.
Initialisation bar is running (can take approx. 5 min).
After successful initialisation, the standard menu appears.

Note

Radio transmission can take some time, so there may be a delay in the display of symbols.

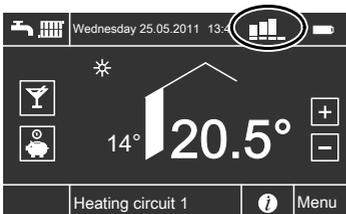
Checking the field strength of the radio signal at the installation site

Note

When using the wall mounting bracket, check **before** installation whether the field strength of the radio signal is satisfactory.

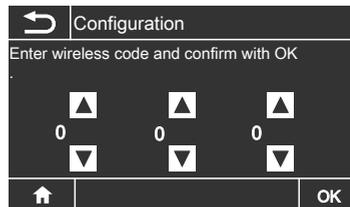
If the field strength is unsatisfactory, either select another location or use a wireless repeater (accessory).

Display of the field strength in the standard menu



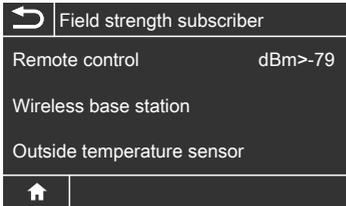
Scanning and display of the field strength in the extended menu

- "Menu"
- ⚙️ "Settings"
- "Configuration"



Checking the field strength of the radio signal... (cont.)

4. Enter the PIN code (see page 17/ 18) and confirm with "OK".
5. **"Field strength subscriber"**



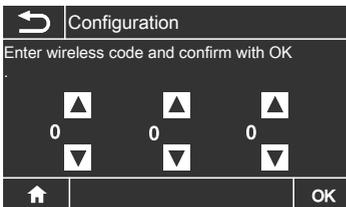
- **"Remote control"**
Radio path between wireless base station and Vitotrol 300 RF
- **"Wireless base station"**
Radio path between Vitotrol 300 RF and wireless base station
- **"Outside temperature sensor"**
Radio path between wireless outside temperature sensor and Vitotrol 300 RF

Standard menu Symbol	Extended menu Value in dBm	Field strength of the radio signal (transmission and reception quality)
	0 to - 78	very good
	- 79 to - 83	good
	- 84 to - 87	adequate
	- 88 to - 91	inadequate
	- 92 to - ∞	no reception

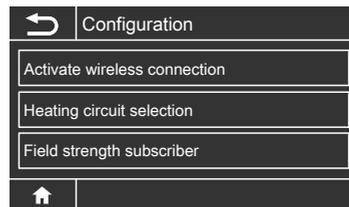
Establishing a wireless connection at a later date

Extended menu

1. **"Menu"**
2. ⚙️ **"Settings"**
3. **"Configuration"**

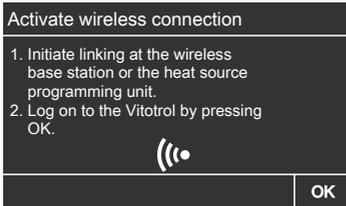


4. Enter the PIN code (see page 17/ 18) and confirm with "OK".



Establishing a wireless connection at a later... (cont.)

5. "Activate wireless connection"



With wireless base station, see page 16.

With Vitotronic 200 RF, see page 18.

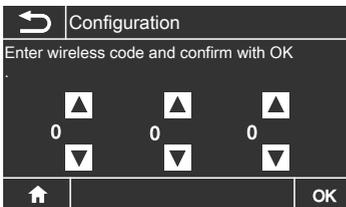
- On the Vitotrol 300 RF, touch **"OK"**. Initialisation bar is running (can take approx. 5 min). After successful initialisation, the standard menu appears.

Changing the configuration of the heating circuits after commissioning

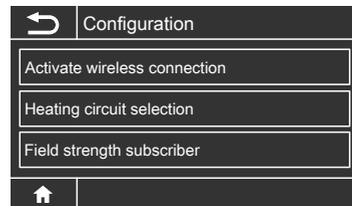
Subsequent addition (e.g. after building an extension) or removal of heating circuits:

Extended menu

- "Menu"**
- "Settings"**
- "Configuration"**



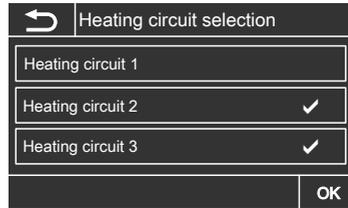
- Enter the PIN code (see page 17/ 18) and confirm with **"OK"**.



- "Heating circuit selection"**

Changing the configuration of the heating... (cont.)

6. Select heating circuits that should be operated via the Vitotrol 300 RF, and confirm with **"OK"**.



7. Initialisation bar is running (can take approx. 5 min).
After successful initialisation, the standard menu appears.

Terminating configuration

The **"Configuration"** menu is automatically terminated after 30 min or via the **"Terminate configuration?"** menu.

Extended menu:

1. **"Menu"**
2. ⚙ **"Settings"**
3. **"Terminate configuration?"**
4. **"OK"** to confirm.

Fault display

Heating system fault

Display:



For troubleshooting, see the installation and service instructions of the relevant control unit.

Wireless connection fault

Display:



For troubleshooting, log components off and then back on again. If required, use wireless repeaters (accessories).



Installation and service instructions for the wireless base station or the boiler.

Specification

Specification

Power supply unit

- With table-top dock
- With wall mounting bracket

230 V~/5 V-

230 V~/4 V-

Batteries

NiMH AA HR6 Mignon

1.2 V-, 2100 mAh

Battery life

Approx. 500 heating cycles

Operational duration with batteries

Approx. 3 h

Radio frequency

868.3 MHz

Wireless protocol

EnOcean

Wireless range

See "Wireless accessories" technical guide

Safety category

II

IP rating

IP 30 to EN 60529

Permissible ambient temperature

- During operation

0 to +40 °C

- During storage and transport

-25 to +60 °C

Set room temperature setting range

3 to 37 °C

Vitotrol 300 RF with table-top dock

The following information is required:

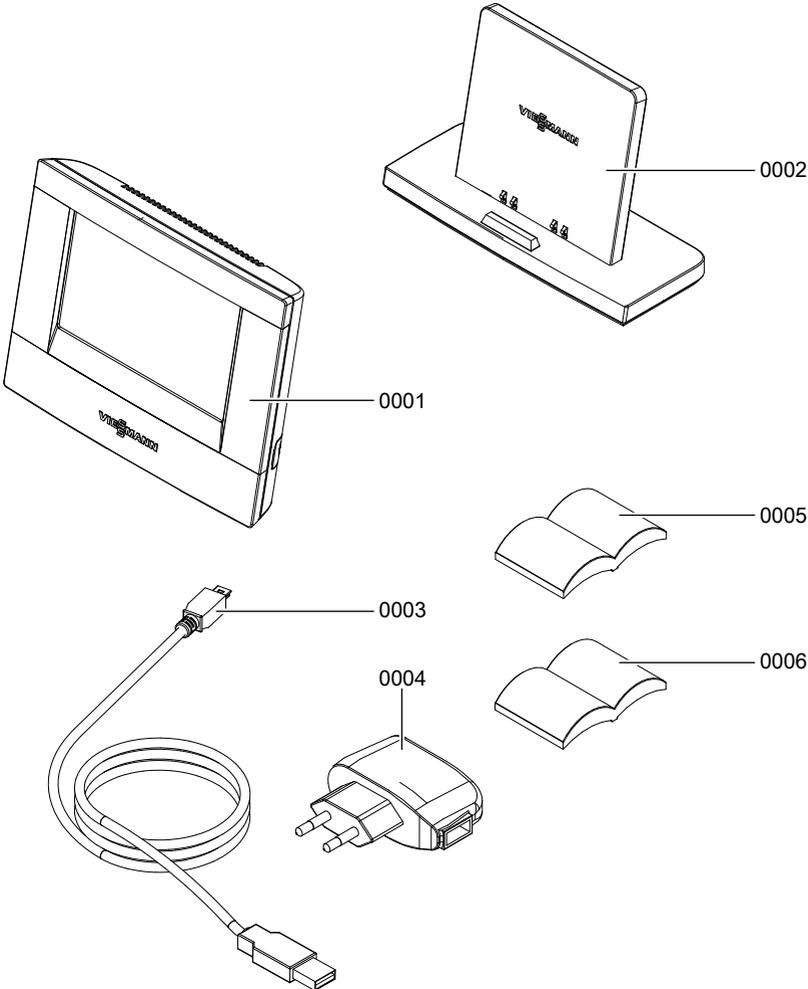
- Serial no. (see type plate)
 - Position number of the part (from this parts list)
- | | |
|------|---------------------------------------|
| 0003 | USB cable |
| 0004 | Plug-in power supply unit |
| 0005 | Installation and service instructions |
| 0006 | Operating instructions |

Standard parts are available from your local supplier.

Parts

- 0001 Programming unit
- 0002 Table-top dock

Vitotrol 300 RF with table-top dock (cont.)



Vitotrol 300 RF with wall mounting bracket

The following information is required:

- Serial no. (see type plate)
- Position number of the part (from this parts list)

Standard parts are available from your local supplier.

Vitotrol 300 RF with wall mounting bracket (cont.)

Parts

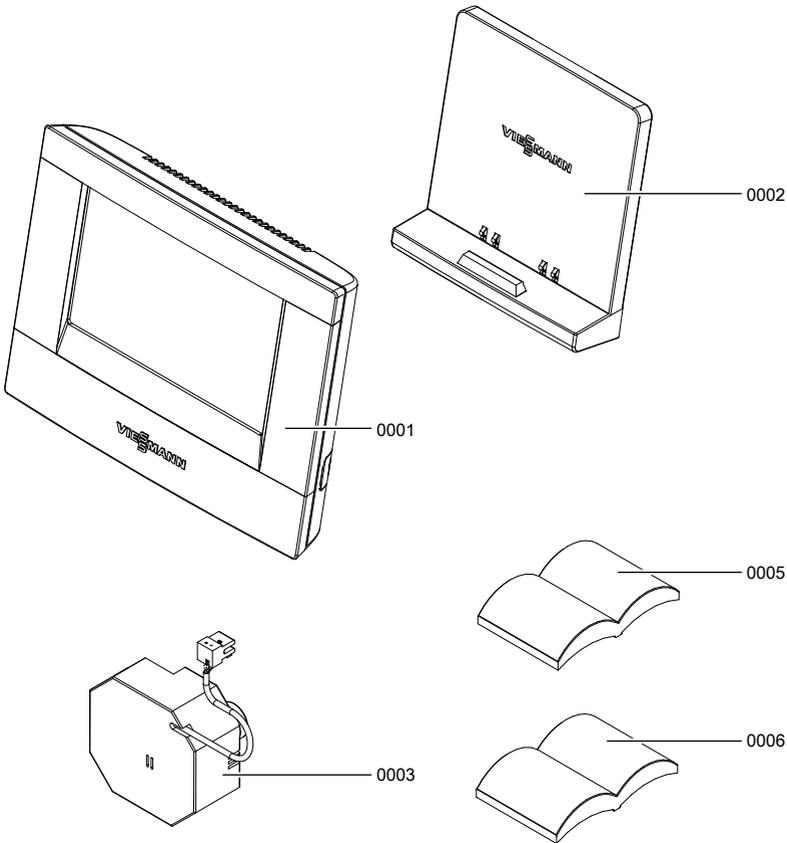
0001 Programming unit

0002 Wall mounting bracket

0003 Power supply unit

0005 Installation and service instructions

0006 Operating instructions



Declaration of Conformity

Declaration of Conformity

We, Viessmann Werke GmbH & Co KG, D-35107 Allendorf, confirm as sole responsible body that the product **Vitotrol 300 RF** complies with the following standards:

EN 301489-1	EN 300220
EN 301489-3	EN 60730
EN 55014-1	EN 60730-2-9
EN 55014-2	EN 61000-3-2
EN 55022	EN 62233

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

1999/5/EG
2004/108/EG
2006/95/EG

Allendorf, 01 March 2012

Viessmann Werke GmbH&Co KG



Authorised signatory Manfred Sommer

Applicability

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