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## VITOTROL 100 CONTROLLER

UTDB & UTDB-RF



Operating Instructions for the System User

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## General Information

### Product Information

The Vitotrol 100, type UTDB is a battery powered room temperature controller with switching output.

The Vitotrol 100, type UTDB-RF is a battery powered room temperature controller with switching output, integral wireless transmitter and separate wireless receiver.

The digital time switch provides the option to use time programs for central heating.

### Energy Saving Tips

- **Standard room temperature (see page 9):**  
Do not overheat your home. Every degree of room temperature reduction saves up to 6 % on your heating bills.
- **Time program (see page 6):**  
Heat your home to the standard room temperature during the day and the reduced temperature at night. Set this via the time program.
- **Short absence (see page 10):**  
Reduce the room temperature if you are going out shopping, for example. For this, select "Economy mode".
- **Holidays (see page 9):**  
If you are going away, select the "Holiday program": The room temperature is reduced, and DHW heating is turned off.
- **Airing:**  
Close the thermostatic valves when airing. Open the windows fully for a brief time.
- **Roller shutters:**  
Close roller shutters (if installed) at dusk.
- **Thermostatic valves:**  
Ensure that thermostatic valves are properly adjusted.
- **Radiators:**  
Never cover radiators or thermostatic valves.

For additional energy saving functions of the Vitotronic control unit, please contact your heating contractor.

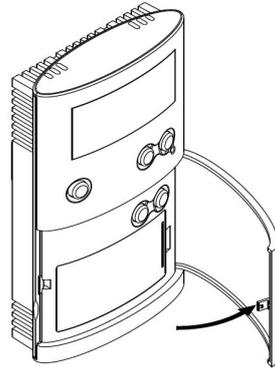
### Tips for Greater Comfort

- **Time program (see page 6):**  
Make use of the time program. In the time program, you can set time phases with different room temperatures, for example different temperatures for day and night time.
- **"Party mode" (see page 10):**  
If you want to heat rooms to a different temperature from the one set in the time program, select "Party mode".  
Example: Due to the time program settings, your home is heated to a reduced room temperature during late evening, but you have visitors staying late.

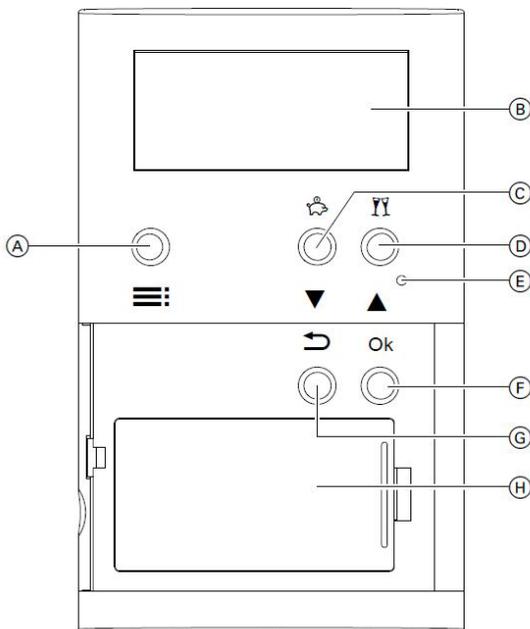
## Operation

### Summary of Controls & Indicators

#### Opening the Flap



#### Functions

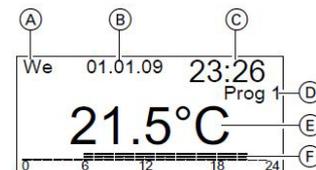


- (A) To call up the menu.
- (B) Display
- (C) To activate economy mode  or to adjust values .
- (D) To activate party mode  or to adjust values .
- (E) Reset
- (F) To confirm your selection or save the setting you've made.
- (G) To go back one step in the menu or to cancel a setting that has been started.
- (H) Battery compartment

#### Symbols on Display

These Symbols are not always displayed, but appear subject to operating conditions.

-  Heat Demand
-  Party Mode Active
-  Economy Mode Active
-  Manual Mode Active
-  Holiday Program Active
-  Frost Protection Mode Active
-  Replace Battery
-  Controls Locked



- (A) Day of the week
- (B) Date
- (C) Time
- (D) Selected time program
- (E) Room temperature
- (F) Time program shown as time slot graphic

## How to Use the Controls

### Default Display

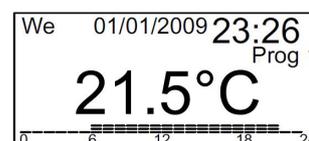
Press key ,  or .

The display illumination is activated and you are taken to the operating display



### Operating Display

1. If the display illumination has gone out, press key :  
The display illumination is activated.
2. If the display illumination is activated, press key  again:  
this will take you to the menu.
3. Use / to make the required settings and confirm them with **OK**. Temperature changes made with / are accepted automatically after 5 seconds.



**Note:** The menu is automatically exited approx. 30 seconds after the last key was pressed.

### Display Illumination

Press any key to activate the display illumination. The display illumination automatically switches off approx. 15 seconds after the last key was pressed.

### Locking the Controls

You can lock the control keys of the Vitotrol 100. To do so, press  and  simultaneously for 5 seconds. To unlock the keys, again press  and  simultaneously for 5 seconds.

## Central Heating

### Selecting the Operating Mode

You can select between the following operating modes:

- **Heating mode in accordance with the time program:** see below
- **Frost protection mode:** see page 9
- **Operation with constant room temperature (manual):** see page 9

### Selecting a Time Program for Heating Mode

You can choose from 3 preset time programs (**Prog 1** to **Prog 3**).

You can change the preset time programs in accordance with your individual requirements.

Within each time program, you can change between 3 different room temperatures:

- Comfort (factory setting: 21°C)
- Eco (factory setting: 19°C)
- Reduced (factory setting: 16°C)

You can change the set values for the room temperatures: see page 9

1. Open the flap.
2. Press **≡**: twice.
3. Use **▲/▼** to select the required time program. (e.g. "**Prog 1**")
4. Confirm with **OK**.

Heating mode operates according to the selected time program.

### Time Programs in the Delivered Condition

#### Time Program 1 - Prog 1

##### Monday to Friday

Time Phase	Start	End	Room Temperature
1	06:00	08:00	Comfort
2	08:00	12:00	Comfort
3	12:00	14:00	Comfort
4	14:00	18:00	Comfort
5	18:00	22:00	Comfort
6	22:00	06:00	Reduced

##### Saturday and Sunday

Time Phase	Start	End	Room Temperature
1	07:00	08:00	Comfort
2	08:00	12:00	Comfort
3	12:00	14:00	Comfort
4	14:00	16:00	Comfort
5	16:00	23:00	Comfort
6	23:00	07:00	Reduced

## Time Program 2 - Prog 2

## Monday to Friday

Time Phase	Start	End	Room Temperature
1	06:00	08:00	Comfort
2	08:00	12:00	Reduced
3	12:00	14:00	Reduced
4	14:00	16:00	Reduced
5	16:00	22:00	Comfort
6	22:00	06:00	Reduced

## Saturday and Sunday

Time Phase	Start	End	Room Temperature
1	07:00	08:00	Comfort
2	08:00	12:00	Comfort
3	12:00	14:00	Comfort
4	14:00	18:00	Comfort
5	18:00	23:00	Comfort
6	23:00	07:00	Reduced

## Time Program 3 - Prog 3

## Monday to Friday

Time Phase	Start	End	Room Temperature
1	06:00	08:00	Comfort
2	08:00	12:00	Eco
3	12:00	14:00	Comfort
4	14:00	18:00	Eco
5	18:00	23:00	Comfort
6	23:00	06:00	Reduced

## Saturday and Sunday

Time Phase	Start	End	Room Temperature
1	07:00	08:00	Comfort
2	08:00	12:00	Comfort
3	12:00	14:00	Comfort
4	14:00	18:00	Comfort
5	18:00	23:00	Comfort
6	23:00	07:00	Reduced

## Changing the Time Phases of Time Programs

In the delivered condition, the day is split into 6 time phases.

You can also split the day into less than 6 time phases, for example:

Time phase 1: Operation with standard room temperature from 06:00 to 22:00 h and;

Time phase 2: Operation with reduced room temperature from 22:00 to 06:00 h

After entry, the last time phase is automatically assigned to time phase 6. The other time phases are then disabled.

Enter a start time, stop time and a room temperature for each active time phase ("**Comfort**", "**Eco**", "**Reduced**") (see example).

You can select time phases for several days (day groups) or for individual days:

"**MO - SU**" for the same time phases on every day of the week

"**MO - FR**" for the same time phases on Monday to Friday

"**SA - SU**" for the same time phases on Saturday and Sunday

"**SINGLE DAY**" for different time phases on individual days

**Note:** Settings for individual days take priority over settings for several days.

1. Open the flap
  2. Press **≡**: twice
  3. Use **▲/▼** to select "**Settings**"
  4. Confirm with **OK**
  5. Use **▲/▼** to select "**Programs**"
  6. Confirm with **OK**
  7. Use **▲/▼** to select the program you want to change (e.g. "**Prog 1**").
  8. Confirm with **OK**
  9. Use **▲/▼** to select "**Set**"
  10. Confirm with **OK**
  11. Use **▲/▼** to select the required group of days/  
single day
  12. Confirm with **OK**
  13. Use **▲/▼** to select the required time phase, or first the required day
  14. Use **▲/▼** to set the required start time, stop time and room temperature (e.g. "**Reduced**") in succession.
  15. Confirm each respectively with **OK**
  16. Proceed as described in points 11 to 13 to set further time phases.
- Note:** If the settings create gaps between the time phases, these are closed automatically by extending the preceding time phase.

## Deactivating Time Phases

To deactivate a time phase, set the same value for the start and stop time.

## Copying Time Programs

You can copy time programs, for example if you want to create a new time program based on an existing one with only minor differences.

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select "**Settings**"
4. Confirm with **OK**
5. Use **▲/▼** to select "**Programs**"
6. Confirm with **OK**
7. Use **▲/▼** to select the program you want to change (e.g. "**Prog 1**").
1. Confirm with **OK**
2. Use **▲/▼** to select "**Copy from**"
3. Confirm with **OK**
4. Use **▲/▼** to select the program you want to copy
5. Confirm with **OK**
6. Use **▲/▼** to select "**Set**" to make the changes

## Frost Protection Mode

If you do not want to heat the interior but would like to have frost protection.

If the room temperature falls below 5°C, central heating starts.

1. Open the flap
2. Press  twice
3. Use / to select "Frost pr."
4. Confirm with **OK**.  
The display shows  and the current room temperature

## Operation with Constant Room Temperature (Manual)

Continuous central heating with the set temperature

1. Open the flap
2. Press  twice
3. Use / to select "Manual"
4. Confirm with **OK**.
5. Use / to set the required room temperature (min. 10°C)
6. Confirm with **OK**.  
The display shows  and again the current room temperature

## Setting a Permanent Room Temperature

You can set 3 room temperatures:

- Standard room temperature "**Comfort**"  
Factory setting: 21°C
- Room temperature "**Eco**"  
Factory setting: 19°C
- Reduced room temperature "**Reduced**"  
Factory setting: 16°C

1. Open the flap
2. Press  twice
3. Use / to select "Settings"
4. Confirm with **OK**
5. Use / to select "Tmp settings"
6. Confirm with **OK**
7. Use / to select the required temperature to "**Comfort**", "**Eco**" or "**Reduced**"
8. Confirm with **OK**

The rooms are heated to one of the 3 room temperatures, in accordance with the active time phase of the selected time program.

## Changing the Room Temperature for a Few Days Only

The following energy saving options are available for times when you are on holiday:

You can shut central heating down completely by selecting frost protection mode   
or

You can set the central heating to minimum energy consumption (e.g. to prevent your house plants from being damaged by the cold). To do so, select the holiday program . If the holiday program is active, the rooms are heated to the reduced temperature ("Reduced").

## Setting a Holiday Program

1. Open the flap
2. Press  twice
3. Use / to select "Holiday"
4. Confirm with **OK**
5. Use / to select "ON"
6. Confirm with **OK**
7. Use / to select the required day and time for the starting and ending of the holiday function
8. Confirm each respectively with **OK**

### Terminating the Holiday Program

The holiday program terminates automatically when the end time has been reached.

If you want to terminate the holiday program early:

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select "Holiday"
4. Confirm with **OK**
5. Use **▲/▼** to select "OFF"

### Changing the Room Temperature for a Few Hours Only

The following functions enable you to change the room temperature for a few hours without permanently altering you settings.

The modified room temperature remains enabled until the next changeover within a program or until the next switch to a different program.

If you want an unscheduled increase in room temperature:

- In programs "Prog 1" to "Prog 3" and "Manual", you can increase the room temperature with **▲**  
or
- In programs "Prog 1" to "Prog 3", select party mode by pressing **⏏**

If you want an unscheduled reduction in room temperature:

- In programs "Prog 1" to "Prog 3" and "Manual", you can lower the room temperature with **▼**  
or
- In programs "Prog 1" to "Prog 3", select economy mode by pressing **🌙**

### Using **▲/▼** to Make Adjustments

1. Press **▼** or **▲**  
The current set room temperature is displayed
2. Use **▲/▼** to set the required temperature
3. Confirm with **OK** or wait approx. 5 seconds until the value is adopted automatically

### Setting Party Mode

In party mode, the reduced room temperature is automatically set to 21°C.

1. Press **⏏** for approx. 5 seconds  
The display shows **⏏**
2. Use **▲/▼** to set the room temperature for party mode
3. Confirm with **OK**

### Ending Party Mode

Party mode ends automatically at changeover to the next time phase of the time program

Press **⏏** again for approx. 5 seconds if you want to terminate party mode early

### Setting Economy Mode

In economy mode, the set room temperature is automatically reduced.

You can set economy mode during reduced mode **"Eco"** and **"Reduced"**.

The lowest room temperature in economy mode is 10°C.

1. Press  for approx. 5 seconds

The display shows 

2. Use / to set the room temperature for economy mode
3. Confirm with **OK**

### Ending Economy Mode

Economy mode ends automatically at changeover to the next time phase of the program.

Press  again for approx. 5 seconds if you want to terminate economy mode early.

## Further Adjustments

### Time and Date

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select **"Settings"**
4. Confirm with **OK**
5. Use **▲/▼** to select **"Standard settings"**
6. Confirm with **OK**
7. Use **▲/▼** to select **"Date - time"**
8. Confirm with **OK**
9. Use **▲/▼** to set the current date and time
10. Confirm each respectively with **OK**

### Summertime/Wintertime

The changeover from summertime to wintertime and vice-versa is automatic. You can stop this automatic changeover.

1. As described above, select **"Date - time"**
2. Use **OK** to select **"Summertime ON"**
3. Use **▲/▼** to select **"OFF"**
4. Confirm with **OK**

### Setting the Language

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select **"Settings"**
4. Confirm with **OK**
5. Use **▲/▼** to select **"Standard settings"**
6. Confirm with **OK**
7. Use **▲/▼** to select **"Language"**
8. Confirm with **OK**
9. Use **▲/▼** to set the required language
10. Confirm with **OK**

### Renaming Time Programs

You can individually rename programs **"Prog 1"** to **"Prog 3"**. The designation is limited to 5 characters

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select **"Settings"**
4. Confirm with **OK**
5. Use **▲/▼** to select **"Programs"**
6. Confirm with **OK**
7. Use **▲/▼** to select the program you want to rename (e.g. **"Prog 1"**)
8. Confirm with **OK**
9. Use **▲/▼** to select **"Rename"**
10. Confirm with **OK**
11. Use **▲/▼** to enter the required characters on line **"New name"**
12. Confirm each respectively with **OK**

### Temperature Balancing

If your Vitotrol 100 is installed in an unfavourable position, e.g. on an external wall or near an open fireplace, the displayed room temperature can deviate from the actual room temperature. You can compensate for this temperature deviation with a correction value.

#### Example:

The room temperature displayed by the Vitotrol 100 is 2°C higher than the actual room temperature. The correction value is then -2°C

1. Open the flap
2. Press **≡**: twice
3. Use **▲/▼** to select **"Settings"**
4. Confirm with **OK**
5. Use **▲/▼** to select **"Service"**
6. Confirm with **OK**
7. Use **OK** to select the required value to be set for **"Ctrller offset"**
8. Use **▲/▼** to set the required value
9. Confirm with **OK**
10. Only for the Vitotrol 100, type UTDB-RF: Exit the menu with the back button.

## Calling Up Information

### Scanning Temperatures and Further Settings

1. Press **≡**:

The display shows the following details:

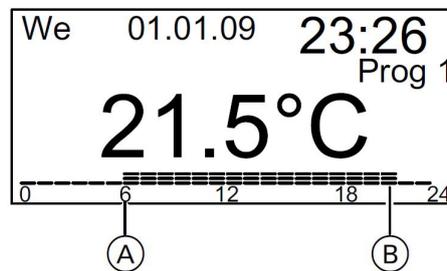
- Room temperature
- Date and time
- Current program
- Day of the week

2. Use **▲/▼** to call up the current set temperature

### Scanning Time Programs

On the display, you see the selected time program **Prog 1**, **Prog 2** or **Prog 3**. The time phases of the current day are shown in a time slot graphic.

Example:



Central heating will operate from 06:00 **A** to 22:00 **B** with standard room temperature and from 22:00 to 06:00 with reduced room temperature

### Calling Up the Holiday Program (If Set)

1. Open the flap
2. Press **≡** twice
3. Use **▲/▼** to select "Holiday"
4. Confirm with **OK**

Start and end of the set holiday period are displayed.

## Possible Problems

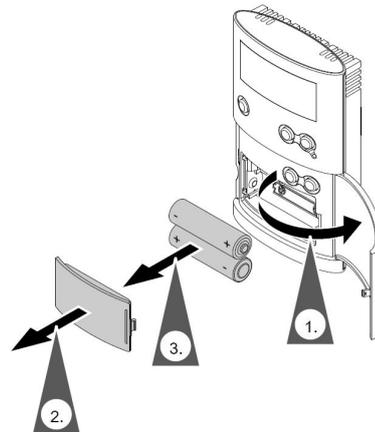
### Faults with Controller

System Characteristics	Cause	Remedy
Rooms are too cold	The Vitotrol 100 is set incorrectly	Check the settings and correct if required: <ul style="list-style-type: none"> <li>• Time program for heating mode (see page 6)</li> <li>• Room Temperature (see page 9)</li> <li>• Time (see page 12)</li> </ul>
Rooms are too cold	The wireless connection to the boiler control unit is interrupted (only for Vitotrol 100, type UTDB-RF with wireless connection). At the receiver unit, the display  flashes	Change the address code (see page 15)
Rooms are too hot	The Vitotrol 100 is incorrectly set	Check the settings and correct if required: <ul style="list-style-type: none"> <li>• Time program (see page 6)</li> <li>• Room temperature (see page 9)</li> <li>• Time (see page 12)</li> </ul>
 flashes on the display	The batteries are spent	Change the batteries (see below)

### Replacing the Batteries

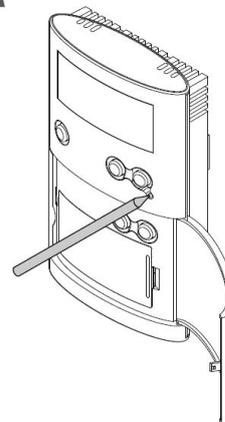
- Use only alkaline batteries 1.5V
- Never use rechargeable batteries
- Replace **both** batteries every 18 months

The Vitotrol 100 has a power reserve of 3 minutes. If you replace the batteries within this time, all set data is retained. If power reserve has been exceeded, a reset will need to be carried out (see below for more information).



### Reset

Press the reset button with a suitable instrument. After a reset, the language, time and date will need to be set again.



## Changing the Address Code

Only for the Vitotrol 100, type UTDB-RF, if  flashes on the wireless receiver.

1. Press  on the wireless receiver for approx. 10 seconds until  flashes
2. Open the flap on the Vitotrol 100
3. Press  twice
4. Use / to select **"Settings"**
5. Confirm with **OK**
6. Use / to select **"Service"**
7. Confirm 3 times with **OK**
8. Use / to select **"Address code"**
9. Confirm with **OK**

The display shows a number combination for approx. 30 seconds. Then **"Send data"** appears on the display. The transfer takes 30 seconds.  flashes during the transfer.

If the receiver recognises the address code,  and  go out. If the address code is not recognised, repeat the process from point 3.

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