

Operating instructions for the system user

VIESSMANN

Digital time switch
for the Vitodens 100-W, type WB1B



DIGITAL TIME SWITCH



Safety instructions

For your safety



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 operating instructions are for the heating system user.

This unit is **not** designed to be used by persons (including children) with limited bodily, sensory or mental capacities, or lacking experience and/or lacking knowledge, unless they are supervised by a person responsible for their safety, or have received instructions from such a person as to how to use the unit.



Please note

Children should be supervised. Ensure that children do not play with the unit.



Danger

Incorrectly executed work on the heating system can lead to life-threatening accidents.

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

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.
- Remove all people from the danger zone.
- Notify your gas or electricity supplier and your heating contractor from outside the building.
- Shut off the electricity supply to the building from a safe place (outside the building).

For your safety (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 in the living space.

In case of fire



Danger

Fire creates the risk of burning and explosions.

- Shut down the heating system.
- Close the shut-off valves of the fuel lines.
- Use a tested fire extinguisher, class ABC.

Boiler room requirements



Please note

Incorrect ambient conditions can lead to damage to the heating system and put the safe operation at risk.

- Ensure ambient temperatures above 0 °C and below 35 °C.
- Prevent air contamination by halogenated hydrocarbons (e.g. as contained in paints, solvents or cleaning fluids) and excessive dust (e.g. through grinding/polishing work).
- Avoid continuously high humidity levels (e.g. through frequent drying of washing).
- Never close existing ventilation apertures.

Ancillary components, spare and wearing parts



Please note

Components that are not tested with the heating system may lead to damage to the heating system, or may affect their various functions. Installation or replacement work must only be carried out by qualified personnel.

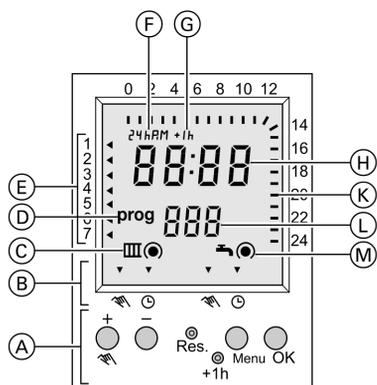
Where to find the controls

Summary of controls and indicators

On the time switch, different start and stop times can be set for DHW and central heating.

Central heating  is controlled via time switch channel 1 (CH1) and DHW heating  via time switch channel 2 (CH2).

The display shows the current time and day of the week. The display alternately shows the switching states (ON/OFF) of both channels and the set switching times.



- (A) User interface
- (B)  Manual mode

- (C)  Automatic mode

- (C) Central heating display:
 - ON

- OFF

- (D) Programming mode display
- (E) Day (programming mode: Validity of a switching point)

- (F) Time format display
- (G) Summertime display
- (H) Time
- (K) Display, switching times for the day. The display alternates regularly between central heating (CH1) and DHW heating (CH2)
- (L) Time switch channel display (programming mode: Number of a switching point)
- (M) DHW heating display:
 - ON

- OFF

Controls

- + Set key and changeover to central heating  in manual or automatic mode
- Set key and changeover to DHW heating  in manual or automatic mode
- Menu Input/display switching times (individual time programs)
- OK Confirmation
- Res. Change the default time programs (initial installation)
- +1h Summertime/winter time changeover

Commissioning (setting the time and switching program)

The current day of the week, time and required switching program are set during the initial installation.

There are 3 switching programs pre-set. You can accept one of the programs or alter it to suit your requirements.
You can also create an individual program.

Note

Select the switching program that most closely matches your requirements. Individual switching points can still be changed, added and deleted later via the menu.

A switching program can contain up to 10 start times and 10 stop times.

The switching points can each be valid for a single day, every day or a group of days (weekdays, weekend):

- Single day
- Monday to Friday
- Monday to Saturday
- Saturday and Sunday

Overview of the preset programs

The switching times apply to every day of the week.
Central heating **and** DHW heating take place in the specified periods.

- P01 Daily from 06:00 to 22:00 h
- P02 Daily from 07:00 to 12:00 h and from 14:00 to 20:00 h
- P03 Daily from 07:00 to 12:00 h, 14:00 to 18:00 h and 20:00 to 22:00 h

Accepting a preset program

Press the following keys

1. Res. Date format "**24h**" flashes.
2. +/- Select date format "**24h**" or "**AM/PM**"
3. OK "**00**" (hour) flashes

4. +/- Set the current hour

Note

Winter time is entered here. You can change over to summertime later by pressing "+1h" in the main menu.

5. OK "**00**" (minute) flashes



Settings

Commissioning (setting the time and switching . . . (cont.)

- | | | | |
|--------|--|----------|---|
| 6. +/- | Set the current minute | 10. +/- | Select preset program
"01", "02" or "03" |
| 7. OK | The setting for the current day appears | 11. OK | Confirm entry |
| 8. +/- | Select the current day (1= Monday, 7 = Sunday) | 12. Menu | Finish setting |
| 9. OK | "P 01" (program 1) appears. "01" flashes | | |

Adapting a preset program

Press the following keys

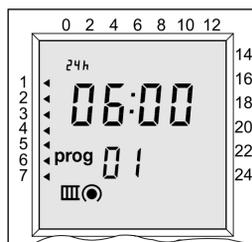
1. Res. Date format "24h" flashes.
2. +/- Select date format "24h" or "AM/PM"
3. OK "00" (hour) flashes
4. +/- Set the current hour

Note

Winter time is entered here. You can change over to summertime later by pressing "+ 1h" in the main menu.

5. OK "00" (minute) flashes
6. +/- Set the current minute
7. OK The setting for the current day appears
8. +/- Select the current day (1= Monday, 7 = Sunday)
9. OK "P 01" (program 1) appears. "01" flashes

10. +/- Select preset program "01", "02" or "03"
11. OK "prog" appears. "01" (first start time of program set in step 10) flashes.



Example: Central heating starts daily at 06:00 h.

Note

The program number is no longer displayed.

Commissioning (setting the time and switching . . . (cont.))

- 12. +/-** Select the start time to be changed
- Note**
A start time (odd number and circle symbol filled in) is always followed by a stop time (even number and circle symbol blank). For the preset programs, the central heating switching points  (CH1) are followed by the DHW heating switching points  (CH2). To add a new switching point, select the highest number ("--:--" is displayed).
- 13. OK** The time (hour) of the start time flashes
- 14. +/-** Change the hour
- Note**
If you want to delete the start time and corresponding stop time, select "--" and proceed from step 27.
- 15. OK** Minute flashes
- 16. +/-** Change the minute of the start time
- 17. OK** The setting for the days of the week appears
- 18. +/-** Select the day or group of days (1= Monday, 7 = Sunday)
- 19. OK** The time switch channel flashes ("CH1" for central heating; "CH2" for DHW heating)
- 20. +/-** Change the time switch channel
- 21. OK** The display changes to the stop time (circle symbol blank). The time (hour) of the stop time flashes
- 22. +/-** Change the hour
- 23. OK** Minute flashes
- 24. +/-** Change the minute of the stop time
- 25. OK** The setting for the days of the week appears
- 26. +/-** Accept the start time setting (switching OFF on the same day) or postpone by a day (switching OFF the following day).
- 27. OK** The next start time flashes. To change further switching points, proceed from step 12.
- 28. Menu** Finish setting

Settings

Commissioning (setting the time and switching . . . (cont.)

Entering an individual program

The procedure is the same as for "Adapting a preset program".

In step 10, select the program "--" and enter the required switching times.

Setting the summertime/winter time

Press "+1h".

The display shows "+1h". The hour changes to summertime.

Setting the time and day

Time and day are usually set during commissioning. You can correct the settings as follows:

Press the following keys

- | | | | |
|----------------|---|------------------------|--|
| | 6. +/- | Set the current minute | |
| 1. Menu | Date format " 24h " flashes. | 7. OK | The setting for the current day appears |
| 2. +/- | Select date format " 24h " or " AM/PM " | 8. +/- | Select the current day (1= Monday, 7 = Sunday) |
| 3. OK | Hour flashes | 9. OK | Confirm entry |
| 4. +/- | Set the current hour | 10. Menu | Finish setting |
| 5. OK | Minute flashes | | |

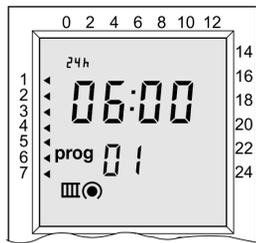
Changing, adding and deleting switching times

You can change the set time program to suit your requirements. You can add, change or delete switching points.

Changing, adding and deleting switching times (cont.)

Press the following keys

1. Menu Date format "24h" flashes.
2. OK "00" (hour) flashes
3. OK "00" (minute) flashes
4. OK The setting for the current day appears
5. OK "prog" appears. "01" (first start time) flashes.



Example: Central heating starts daily at 06:00 h.

6. +/- Select the start time to be changed
- Note**
A start time (odd number and circle symbol filled in) is always followed by a stop time (even number and circle symbol blank). To add a new switching point, select the highest number ("--:--" is displayed).
7. OK The time (hour) of the start time flashes

8. +/- Change the hour

Note

If you want to delete the start time and corresponding stop time, select "--" and proceed from step 21.

9. OK Minute flashes
10. +/- Change the minute of the start time
11. OK The setting for the days of the week appears
12. +/- Select the day or group of days (1= Monday, 7 = Sunday)
13. OK The time switch channel flashes ("CH1" for central heating; "CH2" for DHW heating)
14. +/- Change the time switch channel
15. OK The display changes to the stop time (circle symbol empty). The time (hour) of the stop time flashes
16. +/- Change the hour
17. OK Minute flashes
18. +/- Change the minute of the stop time
19. OK The setting for the days of the week appears



Settings

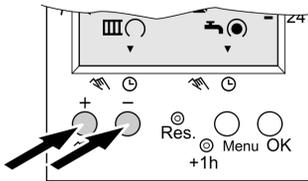
Changing, adding and deleting switching times (cont.)

20. +/- Accept the start time setting (switching OFF on the same day) or postpone by a day (switching OFF the following day).
21. OK The next start time flashes. To change further switching points, proceed from step 6.
22. Menu Finish setting

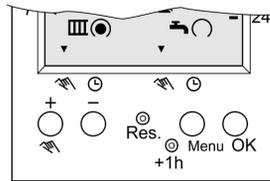
Manual start-up/shutdown

You can intervene in the active switching program.

Central heating OFF, DHW heating ON



Central heating ON, DHW heating OFF



Central heating  can be changed over with "+".

DHW heating  can be changed over with "-".

The time switch returns to automatic mode next time the key is pressed or at the next switching point.

Your contact

Contact your local contractor if you have any questions regarding the maintenance and repair of your system. You may, for example, find local contractors on the internet under www.viessmann.com.

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