Operating instructions

for the system user

Control unit with 7 inch colour touchscreen

VITODENS 200-W/222-W/222-F/242-F

6131279 GB 6/2019

Please keep safe.

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 designed for heating system users.
This appliance can also be operated by children 8 years and older, as well as by individuals with reduced physical, sensory or mental faculties or those lacking in experience and knowledge, provided such individuals are being supervised or have been instructed in the safe use of this appliance and any risks arising from it.

Please note
Supervise children in the proximity of the appliance.
- Never permit children to play with the appliance.
- Cleaning and maintenance must not be carried out by unsupervised children.

Connecting the appliance

- Connection and commissioning of the appliance may only be carried out by authorised contractors.
- Only operate the appliance with suitable fuels.
- Adhere to the electrical connection requirements.
- Modifications to the existing installation may only be carried out by authorised contractors.

Danger
Incorrectly executed work on the heating system can lead to life threatening accidents.
- Work on gas installations must only be carried out by a registered gas fitter.
- Work on electrical equipment must only be carried out by a qualified electrician.

Working on the appliance

- When adjusting settings and carrying out work on the appliance always follow the guidelines in these operating instructions.
  Additional work on the appliance may only be carried out by authorised contractors.
- Never open the appliance.
- Never remove the cladding.
- Never remove or change additional parts or installed accessories.
- Never open or retighten pipe connections.

Danger
Hot surfaces can cause burns.
- Never open the appliance.
- Never touch the hot surfaces of uninsulated pipes, fittings or flue pipes.

Damage to the appliance

Danger
Damaged equipment poses a safety hazard.
Check the appliance for external damage. Never start up a damaged appliance.

For your safety (cont.)

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. Do not switch lights or electrical appliances on or off.
- Close the gas shut-off valve.
- Open windows and doors.
- Evacuate any people from the danger zone.
- Notify your gas and power supply utility and your local heating contractor from outside the building.
- Have the power supply to the building shut off from a safe place (outside the building).

If you smell flue gas

Danger
Flue gas can lead to life threatening poisoning.
- Shut down the heating system.
- Ventilate the installation site.
- Close all doors in the living space.

Emergency contact

If you smell gas or detect a gas leak call the National Gas Emergency service on 0800 111 999. Notify your gas or electricity supplier and your heating contractor.
- Shut off the electricity supply to the building from a safe place (outside the building).

In case of fire

Danger
Fire presents a risk of burns and explosion.
- Shut down the heating system.
- Close the shut-off valves in the fuel supply lines.
- Use a tested fire extinguisher, class ABC.

What to do if water escapes from the appliance

Danger
If water escapes from the appliance there is a risk of electrocution.
- Switch OFF the heating system at the external isolator (e.g. fuse box, domestic distribution board).
- Notify heating contractor.

What to do if the heating system develops a fault

Danger
Fault messages indicate faults in the heating system. If faults are not rectified, they can have life threatening consequences.
Do not acknowledge fault messages several times in quick succession. Inform your heating contractor so the cause can be analysed and the fault rectified.

For your safety (cont.)

Installation room requirements

Danger
Sealed vents result in a lack of combustion air. This leads to incomplete combustion and the formation of life threatening carbon monoxide.
Never cover or close existing vents.
Do not make any subsequent modifications to the building characteristics that could affect safe operation (e.g. cable/pipework routing, cladding or partitions).

Danger
Easily flammable liquids and materials (e.g. petrol, solvents, cleaning agents, paints or paper) can cause deflagration and fire.
Never store or use such materials in the boiler room or in direct proximity to the heating system.

Please note
Incorrect ambient conditions can lead to heating system damage and can put safe operation at risk.
- Ensure ambient temperatures are 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 continuous drying of washing).

Extractors

The operation of appliances that extract air to the outside (cooker hoods, extractors, air conditioning units, etc.) can create negative pressure. If the boiler is operated at the same time, this can lead to reverse flow of the flue gas.

Danger
The simultaneous operation of the boiler and appliances that extract air to the outside can result in life threatening poisoning due to reverse flow of the flue gas.
Take suitable steps to ensure an adequate supply of combustion air. If necessary, contact your contractor.

Auxiliary components, spare and wearing parts

Please note
Components not tested with the heating system may damage the system or affect its function.
Only allow qualified contractors to carry out installation or replacement work.

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Liability

No liability is accepted for loss of profit, unattained savings, or other direct or indirect consequential losses resulting from use of the WiFi interface integrated into the system or the corresponding internet services. No liability is accepted for losses resulting from inappropriate use.
Liability is limited to typical damage arising if a fundamental contractual obligation is violated through slight negligence, the fulfilment of which is essential for proper execution of the contract.
The limitation of liability shall not apply if the damage was caused deliberately or through gross negligence, or if mandatory liability applies due to product liability legislation.

The Viessmann General Terms and Conditions apply, which are included in each current Viessmann pricelist. The relevant data protection regulations and terms of use apply to the use of Viessmann apps. Viessmann accepts no liability for push notifications and email services, which are provided by network operators. The terms and conditions of the respective network operators therefore apply.

Symbols

Symbol	Meaning
	Reference to other document containing further information
	Step in a diagram: The numbers correspond to the order in which the steps are carried out.
	Warning of material losses and environmental pollution
	Live electrical area
	Pay particular attention.
	▪ Component must audibly click into place. or ▪ Acoustic signal
	▪ Fit new component. or ▪ In conjunction with a tool: Clean the surface.
	Dispose of component correctly.
	Dispose of component at a suitable collection point. Do **not** dispose of component in domestic waste.

Terminology

To provide you with a better understanding of the functions of your control unit, some terminology is explained. This information can be found in chapter "Terminology" in the Appendix.

Intended use

The appliance is intended solely for installation and operation in sealed unvented heating systems that comply with EN 12828, with due attention paid to the associated installation, service and operating instructions. It is only designed for heating up heating water that is of potable water quality.

Intended use presupposes that a fixed installation in conjunction with permissible, system-specific components has been carried out.

Commercial or industrial usage for a purpose other than heating the building or DHW shall be deemed inappropriate.

Any usage beyond this must be approved by the manufacturer in each individual case.

Intended use (cont.)

Incorrect usage or operation of the appliance (e.g. the appliance being opened by the system user) is prohibited and will result in an exclusion of liability. Incorrect usage also occurs if the components in the heating system are modified from their intended use (e.g. if the flue gas and ventilation air paths are sealed).

Product information

The control unit is a boiler and heating circuit control unit for the following operating modes:
- Weather-compensated operation
- Continuous operation
- Room temperature-dependent operation

Your heating contractor will configure the operating mode during commissioning in accordance with your system. These instructions describe all 3 operating modes.

Weather-compensated operation

Fig. 1

In weather-compensated operation, the flow temperature level is controlled according to the outside temperature. The lower the outside temperature, the higher the flow temperature. This means that more heat is provided for central heating on cold days than on warmer days.
In weather-compensated operation, 1 heating circuit without mixer and up to 2 heating circuits with mixer can be operated with the control unit.

Continuous operation

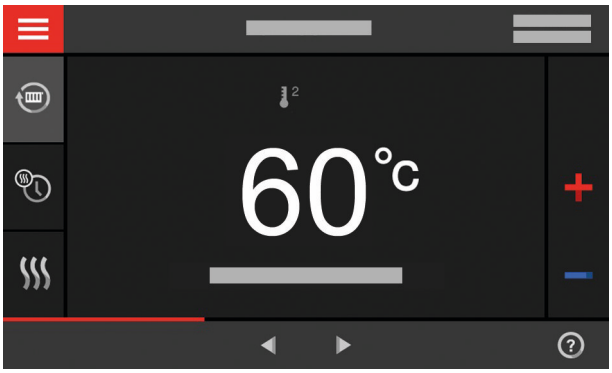

Fig. 2

In continuous operation the heat generator provides heating water with a constant flow temperature regardless of the outside temperature.
In continuous operation, 1 heating circuit without mixer and up to 2 heating circuits with mixer can be operated with the control unit.

Room temperature-dependent operation

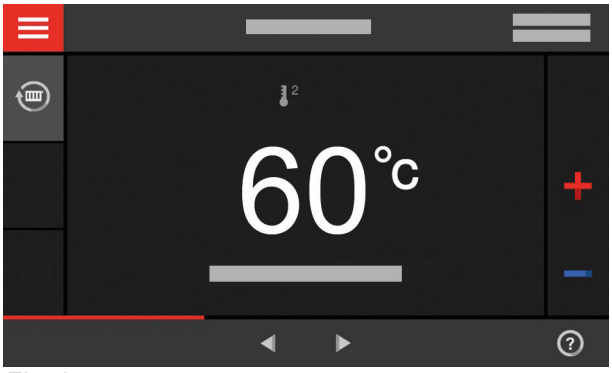

Fig. 3

In room temperature-dependent operation, the central heating is switched on or off subject to the room temperature. The flow temperature remains constant.
In room temperature-dependent operation, 1 heating circuit without mixer can be operated with the control unit.

Product information (cont.)

Operation

The control unit is integrated into the heat generator and controls all functions of your system. The control unit is operated via a 7 inch colour touchscreen.
A WiFi module is integrated into the control unit. This means the system can also be operated remotely via the internet and an app.

In weather-compensated operation you can select some functions via a remote control, in room temperature-dependent operation the same can be done via a room temperature controller.

Software licences

This product contains third party software, including open source software. You are authorised to use this third party software subject to compliance with the relevant licensing terms.

- Licenses for the integrated wireless module: See page 37.
- Licences for the programming unit: See page 37.

Commissioning

The commissioning and matching of the appliance to local conditions and building characteristics, as well as instructing the user in the operation of the system, must be carried out by your contractor.

As the user of new combustion equipment, you may be obliged to notify your local flue gas inspector of the installation [check local regulations]. Your local flue gas inspector will also inform you [where appropriate] about work that may have to be carried out on your combustion equipment (such as regular checks, cleaning).

Your system is preset

Your heating system is preset at the factory and is therefore ready for operation following commissioning by your contractor:

Central heating in weather-compensated operation
- Between **06:00 h and 22:00 h**, rooms are heated to 20 °C **"Room set temperature"** (standard room temperature).
- Between **22:00 h and 06:00 h**, rooms are heated to 3 °C **"Set reduced room temperature"** (reduced room temperature, frost protection).

Central heating in continuous operation
- Between **06:00 h and 22:00 h**, the set flow temperature is 60 °C (**"Normal set flow temperature"**)
- Between **22:00 h and 06:00 h** the set flow temperature is 50 °C (**"Reduced set flow temperature"**, frost protection)

Central heating in room temperature-dependent operation
- The rooms are heated in accordance with the settings on your room temperature controller.

DHW heating
- Between **05:30 and 22:00 h**, the DHW is heated to 50 °C **"DHW set temperature"**. Any installed DHW circulation pump is switched on.
- Between **22:00 and 05:30 h**, the DHW cylinder is not reheated. Any installed DHW circulation pump is switched off.
  Note
  *Any DHW heating started before **22:00 h** remains on until the set DHW temperature has been reached.*

Frost protection
- Your heat generator and DHW cylinder (if installed) are protected against frost.

Wintertime/summertime changeover
- This changeover is automatic.

Date and time
- The date and time were set by your heating contractor.

You can change the settings at any time to suit your individual requirements.

Power failure
All settings are saved if there is a power failure.

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Energy saving tips

Saving energy when using central heating

- Do not overheat your home. Every degree of room temperature reduction saves up to 6 % on your heating bills.
  Weather-compensated operation and room temperature-dependent operation:
  Do not set your standard room temperature (**"Room set temperature"**) to above 20 °C: See page 24.
- Heat your home to the reduced temperature at night or during regular absences:
  - Weather-compensated operation:
    Reduced room temperature
  - Continuous operation and room temperature-dependent operation:
    Reduced flow temperature

  For this, adjust the settings in the time program for central heating (**"Time program heating"**): See page 25.
  In room temperature-dependent operation, time programs for central heating can only be adjusted at the room temperature controller.
  
  Room temperature controller operating instructions
- To switch off functions that are not required (e.g. central heating in summer), set the operating program to **"Standby mode"** for the relevant heating circuits: See page 24.
- Only for weather-compensated operation:
  If you are going away, set the **"Holiday program"**: See page 27.
  During the period that you are away, the room temperature will be reduced and DHW heating switched off.

Saving energy on DHW heating

- At night or during regular absences, heat the DHW to a lower temperature. To do so, adjust the time program for DHW heating: See page 29.
- Switch on DHW circulation only for those times in which you regularly use hot water. For this, adjust the time program for the DHW circulation pump: See page 29.

For additional energy saving functions, please contact your contractor.

Tips for greater comfort

More comfort in your home

- Set your individual preferred temperature: See page 24.
- Adjust the time program for your heating circuits so that your individual preferred temperature is automatically reached when you are present: See page 25.
  In room temperature-dependent operation, time programs for central heating can only be adjusted at the room temperature controller.
- Only for weather-compensated operation:
  Adjust the heating curves so that your home is heated to your individual preferred temperature all year round: See page 25.
- Only for weather-compensated operation and continuous operation:
  If you need a higher room temperature in the short term, select the **"Extended heating"** function: See page 26.
  Example: Late in the evening, the reduced room temperature is set by the time program. Your guests stay longer.
- Only for weather-compensated operation:
  If you are spending more time than usual in your home, select the **"Holidays at home"** function: See page 26.
  E.g. for public holidays or when the children are on school holidays.

Sufficient DHW heating for your needs

- Adjust the time program for DHW heating so that there is always sufficient hot water in accordance with your habitual routines: See page 29.
  Example: You need more DHW in the morning than in the daytime.
- Adjust the time program for the DHW circulation pump so that DHW is available immediately from the taps during periods when hot water is drawn more frequently: See page 29.
- If you need your hot water at a higher temperature for a short while, select "Once-only DHW heating outside the time program": See page 30.

Operating principles

Touchscreen

You can change any setting on your system centrally at the control unit.
The control unit is equipped with a **touchscreen**. To input settings and check information, tap the on-screen buttons.

Remote control for weather-compensated operation

If remote control units are installed in your rooms, you can also adjust the settings at the remote control units.


Remote control operating instructions

Room temperature controller for room temperature-dependent operation

If a room temperature controller is installed in one of your rooms, you can adjust some settings at the room temperature controller.


Room temperature controller operating instructions

Status display with Lightguide

Depending on the type of heat generator, a red illuminated strip (Lightguide) is displayed at the lower or upper edge of the control unit during operation.

Meaning of the display:
- Lightguide pulsates slowly:
  Display is in standby mode.
- Lightguide is illuminated constantly:
  You are operating the control unit. Every input operation is confirmed by a brief flashing.
- Lightguide flashes quickly:
  There is a fault on the system.

Note
You can switch off the Lightguide. See page 31.

Displays

Standby display

If the controls have not been operated for some time, the display initially switches to the **standby display**.

After a few minutes, the illumination is switched off.

Default displays

The default displays provide access to the most important settings and checks.

You can choose between the following default displays using ◀▶:
- Heating circuit or Continuous operation
- DHW
- Energy cockpit
- Favourites
- System overview

For further information regarding the default displays: See page 20 onwards.

Home screen

After starting or activating the control unit the home screen is shown.

In the delivered condition, the default display **"Heating circuit"** or **"Continuous operation"** is shown as home screen. The type of display depends on the operating mode (weather-compensated operation, continuous operation, room temperature-dependent operation). You can specify a different default display for the home screen: See page 33.

Displays (cont.)

Call up the home screen as follows:
- Standby display active:
  Tap anywhere on the screen.
- From the **"Main menu"**:
  Tap ⌂.

Note
You can prevent operation of the home screen: See page 31.
If you do so, you will not be able to make adjustments on either the home screen or the main menu.
***"Panel locked"** is displayed.*

Buttons and symbols

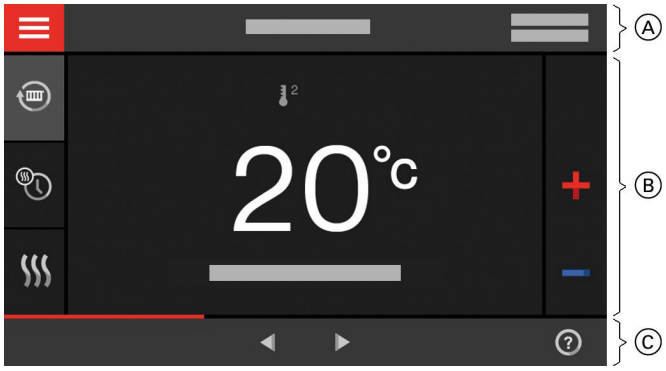

Fig. 4 Example: Weather-compensated operation

Ⓐ Menu line
Ⓑ Function area
Ⓒ Navigation area

Note
Some functions are not available in room temperature-dependent operation. Where applicable, these functions can be set on the room temperature controller, e.g. Time program for central heating.

Buttons and symbols in menu bar Ⓐ

Note
Not all buttons and symbols are available in room temperature-dependent operation, for example the heating circuit selection.

☰	Calls up the **"Main menu"**.
"Heating circuit ..."	Selects the heating circuit. ***Note*** *This choice is only available if there are several heating circuits in your system.*

System data:
- Date
- Time

Interfaces:

	No data transfer
	No WiFi connection
	Establishing a connection
	Communication error
	WiFi connection is enabled (very low reception quality).
	WiFi connection is enabled (low reception quality).
	WiFi connection is enabled (medium reception quality).
	WiFi connection is enabled (high reception quality).

Buttons and symbols in function area Ⓑ

For buttons on the default displays: See page 20 onwards.

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Buttons and symbols (cont.)

Note
- *What buttons and symbols are available depends on the operating mode: Weather-compensated operation, continuous operation, room temperature-dependent operation.*
- *These symbols are not always displayed, but appear subject to the system version and the operating status.*

Symbols

Frost protection is enabled.

Central heating with reduced room temperature in weather-compensated operation
Central heating with reduced flow temperature in continuous operation or room temperature-dependent operation

Central heating with standard room temperature in weather-compensated operation
Central heating with standard flow temperature in continuous operation or room temperature-dependent operation

Only for weather-compensated operation and continuous operation:
Central heating with comfort room temperature in weather-compensated operation
Central heating with comfort flow temperature in continuous operation

Only for weather-compensated operation and continuous operation:
Holiday program is switched on.

Only for weather-compensated operation and continuous operation:
Holidays at home is switched on.

Buttons and symbols in navigation area Ⓒ

Note
What buttons and symbols are available depends on the operating mode: Weather-compensated operation, continuous operation, room temperature-dependent operation

Takes you back to the home screen.

Takes you one step back in the menu.
Or
Terminates an adjustment in progress.

WiFi is switched off: See page 34.

Confirms a change.

Makes changes in the menu.

Calls up the help text.

Calls up messages.

Calls up the required period for the energy statement.
Further information: See page 22.

Scrolls through the menu.
Or
Switches to other display areas, e.g. to the **"System overview"**.

Overview of the "Main menu"

In the **"Main menu"**, you can check and adjust **all** of the settings for the control unit's range of functions.

Call up the **"Main menu"** as follows:
- If the screensaver is active:
  Tap anywhere on the screen and then tap ☰.
- From the home screen:
  Tap ☰.
- From anywhere in the menu:
  Tap ⌂ and then ☰.

Menus available in the "Main menu"

Note
What buttons and symbols are available depends on the operating mode: Weather-compensated operation, continuous operation, room temperature-dependent operation.

"Heating"
For more central heating settings, e.g. set temperature values.
Further information: See page 24.

"Test mode"
For the flue gas inspector **only**

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Overview of the "Main menu" (cont.)

Further information: See page 41.

"DHW"
For DHW heating settings, e.g. for the **"DHW temperature"**.
Further information: See page 29.

"Settings"
For example the screen setting
Further information: See page 31.

"Information"
For checking operating data
Further information: See page 37.

Only for weather-compensated operation and continuous operation:
"Holiday program"
Energy saving function **"Holiday program"**
Further information: See page 27.

Only for weather-compensated operation and continuous operation:
"Holidays at home"
"Holidays at home" function
Further information: See page 26.

"Message lists"
Calls up all pending messages
For further details regarding messages: See page 38, 39 and 40.

"Service"
For contractors **only**

You can find the menu overview on page 49.

Operating program

Operating programs for central heating and DHW heating

Note
The operating programs for central heating and DHW heating can be set separately.

Symbol	Operating program	Function
Central heating		
	"Heating"	The rooms of the selected heating circuit are heated in accordance with the specified room temperature or flow temperature and the time program (see chapter "Central heating"). ***Note*** *In room temperature-dependent operation, the time program for central heating can only be set at the room temperature controller: See the operating instructions for the room temperature controller.*
	"Standby mode"	▪ No central heating ▪ Frost protection for the heat generator is enabled.
DHW heating		
	"DHW" "ON"	DHW is heated in accordance with the DHW temperature and time program specified (see chapter "DHW heating").
	"DHW" "OFF"	▪ No DHW heating ▪ Frost protection for the DHW cylinder is enabled.

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Operating program (cont.)

Special operating programs and functions

- **"Screed drying"**
  This function is activated by your contractor. Your screed is dried in line with a set time program (temperature/time profile) suitable for the relevant building materials. Your settings for central heating have no effect on the duration of screed drying (max. 32 days). The system no longer provides DHW heating. The **"Screed drying"** function can be altered or switched off by your contractor.
- **"External hook-up"**
  The operating program set at the control unit was changed over by an external device, e.g. an EM-EA1 extension (DIO electronics module). The operating program cannot be changed via the control unit for as long as the external hook-up is enabled.
- Only for weather-compensated operation and continuous operation:
  "Holiday program": See page 27.
- Only for weather-compensated operation and continuous operation:
  For **"Holidays at home"**: See page 26.

Note
The special operating programs and functions are displayed alternately with the room temperature or the flow temperature of the heat generator.
*In the main menu, you can call up the set operating program under **"Information"**: See page 37.*

Procedure for setting a time program

The following explains how to enter the settings for a time program. The specifics of the individual time programs can be found in the relevant chapters.

Time programs and time phases

In the time programs, you specify what your heating system should do at what time. To do so, divide the day into sections. These are called **time phases**. Different temperature levels are enabled within and outside these time phases.

You can set up a time program for the following functions:

Function	Temperature level	
	Within the time phase	**Outside the time phase**
Central heating	Weather-compensated operation: Your rooms are heated to standard room temperature or comfort room temperature.	Your rooms are heated to reduced room temperature.
	Continuous operation: Your rooms are heated with standard flow temperature or comfort flow temperature.	Your rooms are heated with reduced flow temperature.
	Room temperature-dependent operation: The time program for central heating can only be set at the room temperature controller.  Room temperature controller operating instructions	
DHW heating	DHW heating is switched on. The water in the DHW cylinder is heated to the set DHW temperature.	DHW heating is switched OFF.
DHW circulation pump	The DHW circulation pump is switched on.	The DHW circulation pump is switched off.

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Procedure for setting a time program (cont.)

- The time programs can be set **individually** to be the same, or different, for every day of the week.
- In the main menu, you can check the time programs under ⓘ **"Information"**: See page 37 onwards.

Setting time phases

The procedure is explained using the example of central heating for heating circuit 1 in weather-compensated operation.

You can set up to four time phases is each **"Time program"**.
For each time phase, you define the start point **"Start"** and the end point **"End"**.

Example:
"Time program" for **"Monday"** for **"Heating circuit 1"**
- Time phase 1:
  06:30 to 12:00 h with standard room temperature
- Time phase 2:
  15:00 to 20:00 h with comfort room temperature

In between these time phases the system heats to a reduced temperature.

Tap the following on-screen buttons:

1. **"Heating circuit 1 ⌄"** in the menu bar
2.
3. **"Mo"**
4.
5. ⌃ ⌄ for the **"Start"** and **"End"** of time phase 1.
   The bar in the time diagram is adjusted.
6. **"Normal"** to select standard room temperature.
7. \+ to add time phase 2.
8. ⌃ ⌄ for the **"Start"** and **"End"** of time phase 2.

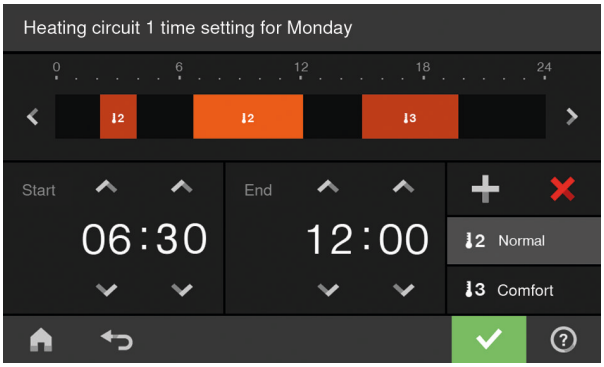

Fig. 5

The bars in the time diagram are adjusted.

9. **"Comfort"** to select comfort room temperature.
10. ✓ to confirm
11. ⌂ to quit the **"Time program"**.

Copying the time program to other days of the week

The procedure is explained using the example of central heating for heating circuit 1 in weather-compensated operation.

Example:
You want to copy the **"Monday" "Time program"** over to **"Thursday"** and **"Friday"**.

Tap the following on-screen buttons:

1. **"Heating circuit 1 ⌄"** in the menu bar
2.
3. **"Mo"**
4.
5. **"Th"**, **"Fr"**
6. ✓ to confirm
7. ⌂ to quit the time program.

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Procedure for setting a time program (cont.)

Changing time phases

The procedure is explained using the example of central heating for heating circuit 1 in weather-compensated operation.

Example:
For **"Monday"**, you want to change the start point **"Start"**of time phase 2 to 19:00 h.

Tap the following on-screen buttons:

1. **"Heating circuit 1 ⌄"** in the menu bar
2.
3. **"Mo"**
4.
5. ❯ for time phase 2
6. ⌄ for the start point of time phase 2.
   The bar in the time diagram is adjusted.
7. ▪ **"Normal"** for standard room temperature
   or
   ▪ **"Comfort"** for comfort room temperature
8. ✓ to confirm
9. to quit the time program.

Deleting time phases

The procedure is explained using the example of central heating for heating circuit 1 in weather-compensated operation.

Example:
For **Monday** you want to delete time phase 2.

Tap the following on-screen buttons:

1. **"Heating circuit 1 ⌄"** in the menu bar
2.
3. **"Mo"** to select the required day
4.
5. ❯ for time phase 2
6. ✕ to delete the time phase.
7. ✓ to confirm
8. to quit the time program.

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Default display "Heating circuit" or "Continuous operation"

In the **"Heating circuit"** or **"Continuous operation"** default display, you can adjust and check the most frequently used settings:

+ Raises the room temperature value in weather-compensated operation.
  Raises the set flow temperature value in continuous operation or room temperature-dependent operation.
− Lowers the room temperature value in weather-compensated operation.
  Lowers the set flow temperature value in continuous operation or room temperature-dependent operation.
Sets the **"Heating"** operating program for a heating circuit.
To select **"Standby mode"**.
Only for weather-compensated operation and continuous operation:
To switch the **"Extended heating"** function on or off.
Only for weather-compensated operation and continuous operation:
To call up the **"Time program heating"** for central heating.

The temperature display represents the selected set room temperature (e.g. 20 °C) or set flow temperature (e.g. 60 °C) for the current time phase.

"DHW" default display

In the **"DHW"** default display you can carry out the settings and checks you use most frequently:

+ Raises the DHW temperature value.
− Lowers the DHW temperature value.
Turns **"DHW" "ON"** /**"DHW" "OFF"**.
Calls up the **"Time program, DHW"**.
To switch once-only DHW heating on or off.

"Energy cockpit" default display

When you call up the Energy cockpit for the first time, a notification appears.

- The Energy cockpit is opened once you confirm this notification with ✓. The information is not shown again when the energy cockpit is subsequently called up.
- If you tap on Cancel, the notification will appear again the next time you call up the Energy cockpit.

The **"Energy cockpit"** provides you with clear information on the energy state of your heating system. The various components present in the system are shown as graphics. Some information on the components is also provided in the default display. For more information, tap on the relevant component.
What buttons and symbols are available depends on the system version.

The **"Energy cockpit"** default display enables you to check the following information:

To call up the operating data for the soar thermal system.
Further information: See page 20.
To call up the temperatures in the DHW cylinder.
Further information: See page 21.
To call up the operating data for the heat generator.
Further information: See page 21.
Checks the energy statement.
Further information: See page 22.
Symbol is animated:
Heating of the DHW cylinder by the solar thermal system or the heat generator is enabled.

Calling up operating data for the solar thermal system

You can call up the following operating data:

- Solar energy yield (Solar energy bar chart): See the following chapter
- Total Solar energy generated
- Solar circuit pump operating time
- Solar circuit pump operating state
- Reheating suppression
- Solar stagnation
- Solar circulation pump
- TS3: Buffer temperature
- TS4: Return temperature, heating circuit
- Solar central heating backup
- TS3: DHW preheating

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 

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"Energy cockpit" default display (cont.)

3. ∧ ∨ for the required scan

Calling up the solar energy yield

You can call up the amount of energy generated by your solar thermal system. Values are shown in kilowatt hours.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 
3. › on **"Solar energy bar chart"**
4. Required period :
   - Current month
   - Last month
   - Current year
   - Last year

   The solar energy yield is displayed as a diagram with yellow bars.
5. Required period in diagram: Day of the week or month
   The solar energy yield for the selected period is displayed numerically.

Checking the temperatures in the DHW cylinder

You can carry out the following checks and functions for the DHW cylinder:
- DHW temperatures
- Start once-only DHW heating (only if DHW heating isn't enabled in the current operating program).

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 

Starting once-only DHW heating

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 
3. to start once-only DHW heating by the heat generator.
   The DHW cylinder is heated to the DHW set temperature.
   If you want to terminate DHW heating early, tap on again.
4. ✓ to confirm

Calling up operating data for the heat generator

You can call up the following operating data:
- Current output
- Hours run
- Burner runtime
- Burner starts
- Electrical energy:
  - Electrical energy consumed, today
  - Electrical energy consumed, last 7 days
  - Electrical energy consumed, this month
  - Electrical energy consumed, last month
  - Electrical energy consumed, this year
  - Electrical energy consumed, last year
- Gas condensing boiler fuel consumption:
  - Gas consumption today
  - Gas consumption in the last 7 days
  - Gas consumption this month
  - Gas consumption last month
  - Gas consumption history

"Energy cockpit" default display (cont.)

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 
3. ∧ ∨ for the required scan

Note
The consumption figures displayed are not based on metering equipment but instead are computed values. The calculation takes into account the existing system components and the user behaviour (e.g. operating time and utilisation level). Depending on system-specific parameters (e.g. installation altitude and type of flue system), differences may arise between the displayed (computed) and actual consumption values. Due to seasonal climate conditions and other factors, further discrepancies are possible. The value display serves to visualise the energy flow to date, as well as any consumption increases or decreases in relation to specific comparative periods. It cannot be used as a binding basis for billing.

Calling up the fuel consumption history

You can call up the fuel consumption as a diagram. Values are shown in cubic metres.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. 
3. For example › in **"Gas consumption history"**
4. Required period ▮▮:
   - Current month
   - Last month
   - Current year
   - Last year

   Gas consumption is shown as a graph.
   - The gas consumption for central heating is shown in dark blue.
   - The gas consumption for DHW heating is shown in light blue.
5. Required period in diagram: Day of the week or month
   The gas consumption for central heating or DHW heating during the selected period is displayed numerically.

Calling up the energy statement

In conjunction with a solar thermal system, you can call up the current situation regarding solar energy yield and fuel consumption.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Energy cockpit"** default display
2. .
3. Required period :
   - Current month
   - Last month
   - Current year
   - Last year

   The energy statement is displayed as a graphic.

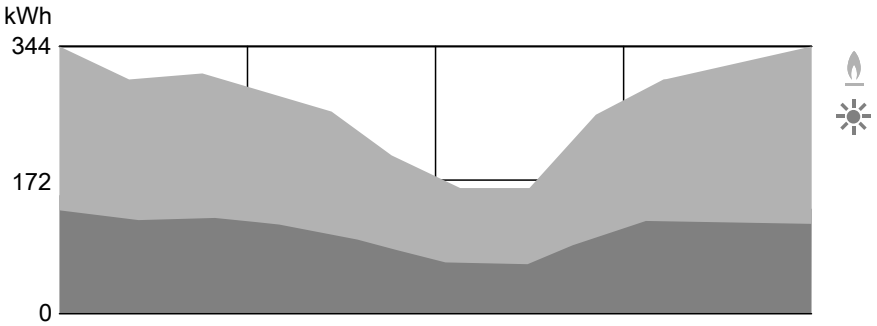

Fig. 6

- Blue area: Fuel consumption
- Yellow area: Solar energy yield

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"Favourites" default display

In the **"Favourites"** default display you can call up your own preferred menus.

Compiling a list of favourite menus

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Favourites"** default display
2. ✎
   The list of menus available for selection is shown.
3. ☐ with all preferred menus
   The selection is indicated by ☑.
4. ✔ to confirm

Note
- *You can select a maximum of 12 menus.*
- *You can change the selection at any time.*

"System overview" default display

What information is available depends on the operating mode: Weather-compensated operation, continuous operation, room temperature-dependent operation.

Subject to your system equipment and the settings that have been made, you can check the following current system data on the **"System overview"** default display:
- **"System pressure"**
- **"Heat generator"** group:
  - Burner ON/OFF
  - Heat generator flow temperature
- **"General"** group:
  Only for weather-compensated operation:
  Outside temperature
- **"Heating circuit ..."** group:
  Only for weather-compensated operation and continuous operation:
  Flow temperature, heating circuit
  Note
  If names have been given to the heating circuits, the allocated name is shown: See chapter "Naming heating circuits".
- **"DHW"** group:
  DHW temperature
- **"Internet"** group:
  ON/OFF
- **"Solar energy"** group:
  Collector temperature
  - Solar circuit pump ON/OFF
  - Collector temperature

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"System overview"** default display
2. **Checking other information:**
   › For other system data in the relevant group.
   Or
   ⓘ to call up the **"Information"** menu: See page 37.

Note
Detailed options for checking the individual groups can be found in chapter "Menu overview".

Heating circuit selection

Note
In room temperature-dependent operation, only one heating circuit can be operated with the control unit. For this reason, heating circuit selection is not available.

The heating of your rooms can be split over several heating circuits if required.
E.g., one heating circuit for your home, and one heating circuit for your office.
In the menu bar, the heating circuits are designated at the factory as **"Heating circuit 1"**, **"Heating circuit 2"** etc. If names have been given to the heating circuits, the allocated name is shown: See chapter "Naming heating circuits".

- For all central heating settings for heating systems with several heating circuits, first select the heating circuit that you want to change from the **"Heating circuit"** default display.
- If you are only operating one heating circuit, this option is not available.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Heating circuit"** default display
2. **"Heating circuit 1 ✓"** in the menu bar
3. Required heating circuit

Setting the room temperature for a heating circuit

Factory settings for the temperature levels

Weather-compensated operation:
- Standard room temperature: 20 °C
- Reduced room temperature: 3 °C
- Comfort room temperature: 20 °C

Continuous operation and room temperature-dependent operation:
- Standard flow temperature: 60 °C
- Reduced flow temperature: 50 °C
- Only for continuous operation
  Comfort flow temperature: 70 °C

Continuous operation and room temperature-dependent operation
Only change the set values for the flow temperature if the heat supply for central heating is insufficient.

Setting temperature levels for central heating

Note
With room temperature-dependent operation, set the required temperature at your room temperature controller.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Heating circuit"** or **"Continuous operation"** default display
2. If applicable, ✓ in the menu bar for the relevant heating circuit
3. + − for the required value of the relevant temperature level:
   - **"Reduced"**
   - **"Normal"**
   - **"Comfort"**
4. ✓ to confirm

Switching central heating ON or OFF (operating program)

For information on the operating programs, see page 16.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Heating circuit"** or **"Continuous operation"** default display
2. If applicable, ✓ in the menu bar for the relevant heating circuit
3. Highlighted button or .

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Switching central heating ON or OFF (operating… (cont.)

4. ▪ **"Heating"** if you want to **start** central heating.
   ▪ **"Standby mode"** if you want to **stop** central heating.
5. ✓ to confirm

Time program for central heating

Note
In room temperature-dependent operation, the time program for central heating can only be set at the room temperature controller: See the operating instructions for the room temperature controller.

Setting a time program

Factory settings: **One** time phase from 06:00 to 22:00 h for every day of the week

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"Heating circuit"** default display
2. If applicable, ✓ in the menu bar for the relevant heating circuit
3.
4. Required day of the week
5.
6. Depending on the required change:
   ∧ ∨ to change the time phase
   \+ for a new time phase
   × to delete a time phase
   ◀ ▶ to select the time phase if more than one time phase is set.

Note
When adjusting the setting, bear in mind that your system requires some time to heat the rooms to the required temperature.

To continue: See page 17.

Setting the heating curve

The heating curve can only be adjusted in weather-compensated operation.

By setting the **"Heating curve"**, you influence the flow temperature provided by the heat generator.
To ensure your rooms are heated optimally at any outside temperature, you can adjust the **"Level"** and **"Slope"** of the **"Heating curve"**.

Factory settings:
- **"Slope"**: 1.4
- **"Level"**: 0

Tap the following on-screen buttons:

1.
2. **"Heating"**
3. Required heating circuit, e.g. **"Heating circuit 1"**
4. **"Heating curve"**
5. \+ − for the required value for **"Slope"** and **"Level"** respectively
   The graph displayed clearly shows the change in the **"Heating curve"** as soon as you alter the value for the **"Slope"** or **"Level"**.
6. ✓ to confirm

Note
*Extensive information on adjusting the **"Heating curve"** can be found in chapter "Terminology" in the appendix.*

Temporarily adjusting the room temperature

Note
Only for weather-compensated operation and continuous operation.

Switch on the **"Extended heating"** function if you want to heat your home with **standard room temperature/flow temperature** or **comfort room temperature/flow temperature** during a time phase with reduced room temperature.

Your home will be heated with the temperature of the last active time phase for standard room temperature/flow temperature or comfort room temperature/flow temperature.

Switching on "Extended heating"

Tap the following on-screen buttons:

1. If applicable, ⌄ in the menu bar for the relevant heating circuit
2. ≋
   The temperature of the last active time phase for standard room temperature/flow temperature or comfort room temperature/flow temperature will be selected.

Switching off "Extended heating"

The function ends automatically when switching to the next time phase for standard room temperature/flow temperature or comfort room temperature/flow temperature.

Tap the following on-screen buttons to terminate "Extended heating" early:

1. If applicable, ⌄ in the menu bar for the relevant heating circuit
2. ≋

Adjusting the room temperature for extended presence at home

Note
Only for weather-compensated operation and continuous operation.

If you are continuously at home for one or more days but you don't want to change the time program, select the function **"Holidays at home"** 🛋, e.g. on public holidays or when the children are on school holidays.

The function **"Holidays at home"** 🛋 has the following effect:

- The room temperature during the periods in-between the set time phases is raised to the set value of the first time phase of the day: From reduced room temperature to standard room temperature or comfort room temperature.
- If no time phase is enabled before 0:00 h, your rooms are heated to the reduced room temperature until the next time phase becomes active.
- DHW heating is enabled.
- The **"Holidays at home"** function starts and ends according to the set times for the start date and end date.

Adjusting the room temperature for extended… (cont.)

Note
- *As long as the **"Holidays at home"** function is switched on, the default display shows **"Holidays at home"** and the set start date and end date.*
- *If **"Detached house"** was selected by your contractor during commissioning, the function is adopted for all heating circuits.*

Example

For Monday and Tuesday 2 time phases are set respectively.

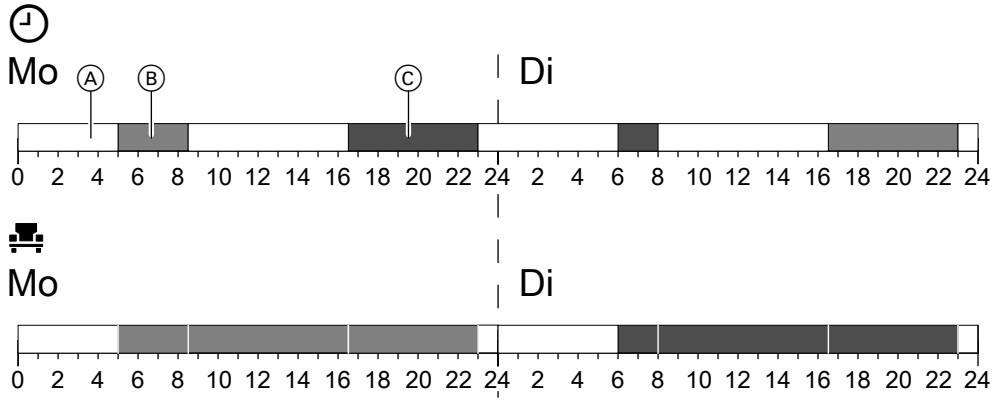

Fig. 7

- Temperature levels in line with the set time program
- Temperature level, if **"Holidays at home"** is active
- Ⓐ Reduced room temperature
- Ⓑ Standard room temperature
- Ⓒ Comfort room temperature

Switching on "Holidays at home"

Tap the following on-screen buttons:

1. ☰
2. **"Holidays at home"**
3. If applicable, ⌄ in the menu bar for the relevant heating circuit
4. ⌃ ⌄ for **"Start"** and **"End"**
5. ✓ to confirm

Switching off "Holidays at home"

Tap the following on-screen buttons:

1. ☰
2. **"Holidays at home"**
3. If applicable, ⌄ in the menu bar for the relevant heating circuit
4. 🗑

Saving energy during long periods of absence

Note
Only for weather-compensated operation and continuous operation.

To save energy during long periods of absence, select **"Holiday program"** 🧳.

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Saving energy during long periods of absence (cont.)

The holiday program has the following effects:
- **Central heating**:
  - For heating circuits in the **"Heating"** operating program:
    The rooms are heated to the set reduced room temperature.
  - For heating circuits in the **"Standby mode"** operating program:
    No central heating: Frost protection for the heat generator and the DHW cylinder is enabled.
- **DHW heating**:
  No DHW heating; frost protection for the DHW cylinder is enabled.
- The holiday program starts at 00:00 h on the first day of your holiday and ends at 23:59 h on the final day.

Note
- *As long as the **"Holiday program"** function is switched on, the selected first and last day of the holiday are shown in the **"Heating circuit"** and **"Holiday program"** default display.*
- *If **"Detached house"** was selected by your contractor during commissioning, the holiday program is switched on for all heating circuits.*

Switching on the "Holiday program"

Tap the following on-screen buttons:

1. ☰
2. **"Holiday program"**
3. If applicable, ⌄ in the menu bar for the relevant heating circuit
4. ⌃ ⌄ for **"First day of holiday"** and **"Last day of holiday"**
5. ✓ to confirm

Switching off the "Holiday program"

Tap the following on-screen buttons:

1. ☰
2. **"Holiday program"**
3. If applicable, ⌄ in the menu bar for the relevant heating circuit
4. 🗑

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DHW temperature

Factory settings: 50 °C

Note
For reasons of good hygiene, you should not set the DHW temperature lower than 50 °C.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"DHW"** default display
2. + − for the required value
3. ✓ to confirm

Switching DHW heating on or off (operating program)

If you switch off DHW heating, no water can be heated. This also applies for the function "Once-only DHW heating outside the time program".

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"DHW"** default display
2. Highlighted button or ⏻
3. ▪ | **"ON"** if you want to **start** DHW heating.
   ▪ ○ **"OFF"** if you want to **stop** DHW heating.

For information on operating programs: See page 16.

Time program for DHW heating

Setting a time program

Factory settings: 05:30 to 22:00 h

You can change the time program **individually** in accordance with your requirements.

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"DHW"** default display
2.
3. Required day of the week
4.
5. Depending on the required change:
   ∧ ∨ to change the time phase
   \+ for a new time phase
   × to delete a time phase.
   ◀ ▶ to select the time phase if more than one time phase is set.

Note
- *The DHW is not heated between the time phases. Frost protection for the DHW cylinder is enabled.*
- *When setting time programs, bear in mind that your system requires some time to heat the DHW cylinder to the required temperature.*

To continue: See page 17.

Setting the time program for the DHW circulation pump

You can change the time program **individually** in accordance with your requirements.

Tap the following on-screen buttons:

1. ☰
2. **"DHW"**
3. **"Time program, DHW circulation"**
4. Select day of week.
5.
6. Depending on the required change:
   ▪ ∧ ∨ to change the time phase
   ▪ \+ for a new time phase
   ▪ × to delete a time phase.
   ▪ ◀ ▶ to select the time phase if more than one time phase is set.

Note
Between the time phases the DHW circulation pump remains off.

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Time program for DHW heating (cont.)

To continue: See page 17.

Once-only DHW heating outside the time program

If you require hot water outside the set time phases, switch on "Once-only DHW heating".
The DHW cylinder is heated once to the set DHW temperature.

This function has a higher priority than other functions, such as the time program for example.

Switching on once-only DHW heating

Tap the following on-screen buttons:

1. If applicable, ◀ ▶ for the **"DHW"**, **"Energy cockpit"** or **"Favourites"** default display
2.
3. ✓ to confirm

Switching off once-only DHW heating

"One-off DHW heating" ends as soon as the DHW set temperature has been reached.

Tap the following on-screen buttons to terminate "Once-only DHW heating" early:

1. If applicable, ◀ ▶ for the **"DHW"**, **"Energy cockpit"** or **"Favourites"** default display
2.

Increased DHW hygiene

Once a week, you can heat the DHW in the cylinder to a specified DHW temperature for a duration of one hour. This function is regularly carried out at the specified time.

⚠ **Danger**
High DHW temperatures can cause scalding, e.g. if the DHW temperature is set to above 60 °C.
Mix with cold water at the draw-off points.

Switching on increased DHW hygiene

Tap the following on-screen buttons:

1. ☰
2. **"DHW"**
3. **"Hygiene function"**
4. ∧ ∨ for the starting time **"Start"**
5. Required day of the week
   The selected day of the week is highlighted.
6. ✓ to confirm

Switching off increased DHW hygiene

Tap the following on-screen buttons:

1. ☰
2. **"DHW"**
3. **"Hygiene function"**
4. Highlighted day of the week
5. ✓ to confirm

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Locking the control panel

You can lock the controls in 2 steps:
Stage 1 All functions on the default displays are operable. Emissions test mode can be switched on. Message lists are displayed.
All other functions are disabled.
Stage 2 All functions are disabled. Emissions test mode can be switched on.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Lock panel"**
4. **"Lock everything"**
   Or
   "Only home screen operable"
5. Enter the password "viessmann".
6. ✓ to confirm

This password can be changed: See page 31.

Unlocking the controls

Tap the following on-screen buttons:

1. Any on-screen button
   "Panel locked" is displayed.
2. ✓
   "Do you want to unlock the operation?" is displayed.
3. ✓
   An entry field and keyboard appear.
4. Enter the password "viessmann" or the password you have specified.
5. ✓ to confirm

Changing the password for the "Lock panel" function

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Change password"**
4. Enter the current password.
5. ✓ to confirm
6. Enter the new password (1 to 20 characters).

   Note
   You will not be required to confirm the new password.
7. ✓ to confirm
   Information is displayed.
8. ✓ to confirm the note

Setting the display brightness

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Screen setting"**
4. **"Brightness, operation"**
   Or
   "Brightness, standby"
5. ∧ ∨ for the required value
6. ✓ to confirm

Switching the Lightguide on and off

Depending on the type of heat generator, a red illuminated strip (Lightguide) is displayed at the lower or upper edge of the control unit during operation.

In the delivered condition, the Lightguide is switched on. You can switch off the Lightguide.

Switching the Lightguide on and off (cont.)

Meaning of the display:
- Lightguide pulsates slowly:
  Display is in standby mode.
- Lightguide is illuminated constantly:
  You are operating the control unit. Every input operation is confirmed by a brief flashing.
- Lightguide flashes quickly:
  There is a fault on the system.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Screen setting"**
4. **"Lightguide ON/OFF"**
5. **"ON"**
   Or
   "OFF"
6. ✓ to confirm

Adjusting the signal tone for on-screen buttons

Under factory settings, an audio signal is enabled to produce a sound when a button is tapped. You can switch this audio signal on or off.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Buzzer"**
4. **"ON"**
   Or
   "OFF"
5. ✓ to confirm

Entering names for heating circuits

Note
Only for weather-compensated operation and continuous operation.

You can name all heating circuits individually, e.g. "Ground floor".

Note
*The abbreviations **1**, **2**, **3**, **4** will be retained in the default display.*

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Rename heating circuits"**
4. Required heating circuit, e.g. **"Heating circuit 1"**
5. Type in the required name, e.g. "Ground floor" (1 to 20 characters).
6. ✓ to confirm

The name assigned to the relevant heating circuit is shown in the main menu.

Setting the "Time" and "Date"

The **"Time"** and **"Date"** are set at the factory. If your system has been shut down for a prolonged period, you may need to reset the **"Time"** and **"Date"**.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Date and time"**
4. **"Date"**
   Or
   "Time"
5. ∧ ∨ for the required value
6. ✓ to confirm

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Setting the "Language"

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. Abc **"Language"**
4. Required language
5. ✓ to confirm

Setting "Units"

You can adjust all available units, e.g. for the temperature, date, pressure, etc.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Units"**
4. Select the required unit type, e.g.°C for the temperature.
5. ✓ to confirm

Entering the contractor's contact details

You can enter your contractor's contact details. These can then be called up in the ⓘ **"Information"** menu.

Tap the following on-screen buttons:

1. ☰
2. ⓘ **"Information"**
3. **"Contractor contact details"**
4. Relevant entry field
5. Enter your contractor's contact details into the individual boxes.
6. ✓ to confirm

Setting the home screen

Note
Which default displays are available depends on the operating mode: Weather-compensated operation, continuous operation, room temperature-dependent operation.

You can choose from the following default displays as your home screen:
- **"Heating circuit"** or **"Continuous operation"**
- **"DHW"**
- **"System overview"**
- **"Energy cockpit"**
- **"Favourites"**

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Selecting the default display"**
4. Required display
5. ✓ to confirm

Note
Tap on ⌂ to call up the selected home screen.

Switching on wireless connection to the remote control

With weather-compensated operation, you can connect your remote control to the control unit for wireless data transfer via low power radio.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**

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Switching on wireless connection to the remote… (cont.)

3. **"Low power radio ON/OFF"**
4. **"ON"**
5. ✓ to confirm

Switching internet access ON or OFF

You can control your system remotely via the internet using an app. To do this, establish an internet connection via WiFi: See the following chapter.
The required credentials for internet access to the control unit via app can be found on the adjacent label:

Switching WiFi on or off

Tap the following on-screen buttons:

1. ☰
2. **"Settings"**
3. **"Internet"**
4. **"WiFi operating mode"**
5. **"OFF"** if you want to **switch off** the WiFi.
   Or
   "Internet" if you want to **switch on** the WiFi.
6. ✓ to confirm

Establishing a WiFi connection

Note
Prerequisite: WiFi is switched on.

Tap the following on-screen buttons:

1. ☰
2. **"Settings"**
3. **"Internet"**
4. **"Network selection"**
   - Available WiFi networks are displayed.
     Note
     *If a connection as already exists, **"Connected"** is shown next to the relevant network.*
   - If you want to use an invisible WiFi network:
     Tap on and enter the name of the WiFi (SSID) and the password.
5. Select WiFi.

   Note
   Use to refresh the list of available WiFi networks.
6. ✓ to confirm
7. If your selected WiFi is not protected :
   ✓ to acknowledge the connection message
   Or
   If your selected WiFi is protected :
   Enter the password (maximum 40 characters).
   ✓ to confirm your password
8. ✓ to acknowledge the information regarding internet use
   The default display shows .

   Note
   - *If the connection was not established, an error message is shown.*
   - *An internet connection only exists if the selected WiFi is connected to the internet. Check your WLAN settings if required.*

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Switching internet access ON or OFF (cont.)

Static IP addressing

Prerequisite: Your WiFi is configured so that the subscriber addresses in the network (IP addresses) are not automatically assigned.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Internet"**
4. **"Network selection"**
5. Available WiFi networks are displayed.

   Note
   Tap ⟲ to refresh the list of available WiFi networks.

6. Select the network.
7. ✎
8. **"STATIC"** for static IP addressing
9. ✓ to confirm
10. Enter network data:
    - IP address
    - Subnet mask
    - Standard gateway
    - Primary DNS server
    - Secondary DNS server
11. ✓ to confirm

Note
An internet connection only exists if the selected WiFi is connected to the internet. Check your WLAN settings if required.

Switching off the display screen for cleaning

If you want to clean the display screen, you can switch it off for 30 seconds. This prevents unintentional operation.
Clean the display with a microfibre cloth.

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Clean screen"**
   The display screen is switched off. A countdown begins.

Restoring factory settings

You can reset all entries and values to their factory settings.

Note
If the heating circuits have been named, the assigned names will be retained: See page 32.

Settings and values that are reset with all operating modes:
- Standard room temperature or standard flow temperature
- Reduced room temperature or reduced flow temperature
- Operating program
- DHW temperature
- Time program for DHW heating
- Time program for DHW circulation pump
- Only for weather-compensated operation
  Heating curve slope and level

Settings and values that are additionally reset with weather-compensated operation or continuous operation:
- Comfort room temperature or comfort flow temperature
- Time program for central heating
- The **"Extended heating"** function is switched off.
- **"Holiday program"** and **"Holidays at home"**
- Only for weather-compensated operation
  Heating curve slope and level

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. ⮌ **"Factory settings"**

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Restoring factory settings (cont.)

4. ✔ to confirm

Calling up help messages

You can call up help messages relating to the displays and functions.

Tap the following on-screen buttons:

1. ⓘ to call up the help messages.
2. ↩ to return to the previous screen.

Checking information

Depending on the system equipment level and the settings made, you can call up current system data, e.g. temperatures.

The system data is divided into the following groups:
- ⓘ General
- Burner
- DHW
- Ⓜ1 Heating circuit 1
  Only for weather-compensated or continuous operation:
  Ⓜ2 Heating circuit 2
  etc.
- Solar energy
- Service contact details
- Internet
- Open source license
  Calls up the licence for the programming unit.

Note
If names have been given to the heating circuits, the allocated name is shown: See page 32.
Detailed options for checking the individual groups can be found in chapter "Menu overview".

Tap the following on-screen buttons:

1. ☰
2. ⓘ **"Information"**
3. Required group

Calling up licenses for the integrated wireless module

Switch on the **"Access point"** of the appliance so that you can call up online legal information, such as open source licences.

Switching on access point

Tap the following on-screen buttons:

1. ☰
2. ⚙ **"Settings"**
3. **"Internet"**
4. **"WiFi operating mode"**
5. **"Access Point Status"**
6. Follow the instructions in the mobile device app.
7. ✓ to confirm

Calling up open source licences

1. Call up the WiFi settings of your smartphone or PC.
2. Connect your smartphone or PC to the WiFi **"Viessmann-<xxxx>"**.
   You will be asked to enter a password.
3. Enter the WiFi password.

   Note
   The credentials can be found on the label: See chapter "Switching internet access ON or OFF".
4. With your connected mobile device, open **http://192.168.0.1** in your internet browser

Calling up licenses for the integrated wireless… (cont.)

5. Follow the link **"Open Source Components Licenses"**.

Third party software

1 Overview

This product contains third party software, including open source software. You are entitled to use this third party software in compliance with the respective licence conditions as provided under the link below. A list of used third party software components and of license texts can be accessed by connecting your boiler, like it is mentioned in the manual.

2 Acknowledgements

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/). This product includes cryptographic software written by Eric Young (eay@cryptsoft.com) and software written by Tim Hudson (tjh@cryptsoft.com).

3 Disclaimer

The open source software contained in this product is distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. The single licences may contain more details on a limitation of warranty or liability.

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www.viessmann.de

4 How to obtain the source code

The software included in this product may contain copyrighted software that is licensed under a licence requiring us to provide the source code of that software, such as the GPL or LGPL. To obtain the complete corresponding source code for such copyrighted software, please contact us via the contact information provided in section 5 below, indicating the build number you will find under the "Open Source Licences" link mentioned in section 1 above. This offer is not limited in time and valid to anyone in receipt of this information.

Checking service messages

Your contractor can set service intervals. When these service intervals are exceeded, a service message is displayed automatically: **"Service"** and 🔧
If available, your heating contractor's contact details will be displayed.

Tap the following on-screen buttons:

✔
⚠ flashes in the navigation area.

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Checking service messages (cont.)

Calling up service messages

Tap the following on-screen buttons:

1. ⚠ in the navigation area.
   If fault messages are also present in your system, they and any further messages can be called up with ⚠ **"Faults"**, **"Service messages"**.

2. **"Service messages"**
   The service messages appear in yellow in a list.

3. Tapping on **?** calls up information on the system's characteristics.
   Tips on measures you can take yourself **before** notifying your contractor are displayed.

4. Make a note of the service message number. For example: **P.1 "Interval until the next service "**.
   This enables the contractor to be better prepared and may save you unnecessary travelling costs.

5. Please notify your heating contractor.

6. ✍ to acknowledge Service if necessary.

Note
If the service cannot be carried out until a later date, the service message will be displayed again the following Monday.

Checking fault messages

If your system has developed faults, **"Fault"** and ⚠ are displayed. If switched on, the Lightguide flashes: See chapter "Switching the Lightguide on and off".

Tap the following on-screen buttons:

✔
⚠ flashes in the navigation area.

Note
- *If you have connected an alarm to alert you to fault messages (e.g. a buzzer), this is deactivated when the fault message is acknowledged.*
- *If troubleshooting cannot be carried out until a later date, the fault message will be displayed again the following day at 07:00 h. The message facility is switched on again.*

Calling up a fault message

Tap the following on-screen buttons:

1. ⚠ in the navigation area.
   If there are also service messages present on your system, they and any further messages can be called up with ⚠ **"Faults"**, **"Service messages"**.

2. **"Faults"**
   The fault messages are listed in red.

3. Tapping on **?** calls up information on the system's characteristics.
   Tips on measures you can take yourself **before** notifying your contractor are displayed.

4. Make a note of the fault number and the cause of the fault. For example: **F.160 "Communication error CAN bus"**.
   This enables the contractor to be better prepared and may save you unnecessary travelling costs.

5. Please notify your heating contractor.

6. ✍ to acknowledge the fault.

⚠ **Danger**
If faults are not rectified, they can have life threatening consequences.
Do not acknowledge fault messages several times in quick succession. Please notify your heating contractor if a fault occurs. Your contractor will be able to analyse the cause and rectify the fault.

Resetting the burner after a burner fault

If the burner is locked due to a fault, you can reset the burner.

Tap the following on-screen buttons:

1. ✔
   Further information is shown.

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Checking fault messages (cont.)

2. ☐ **"Reset"**

3. ✔ to confirm
   The burner is reset and will restart.

⚠ **Danger**
If faults are not rectified, they can have life threatening consequences.
Do not reset the burner several times in quick succession. Immediately notify your contractor if a burner fault occurs. Your contractor will be able to analyse the cause and rectify the fault.

Checking message lists

Tap the following on-screen buttons:

1. ☰

2. **"Message lists"**

3. If the relevant messages are present:
   - **"Status"**
   - **"Warnings"**
   - **"Information"**
   - **"Faults"**
   - **"Service messages"**

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Emissions test mode

The emissions test mode for testing flue gas must only be activated by your flue gas inspector during the annual inspection.
If possible, have the emissions test carried out during the heating season.

Note
The flue gas inspector can activate emissions test mode even if the control panel is locked.

Switching on emissions test mode

Tap the following on-screen buttons:

1. ☰
2. **"Test mode"**
3. ✓
4. Follow the instructions on the display.
   If test mode is possible, the burner starts. The flow temperature of the heat generator is shown on the display. The icon is displayed.

Note
Ensure that enough heat is being transferred during emissions test mode.

Stopping emissions test mode

- Automatically after 30 minutes
  Or
- Tap ✕.

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Switching the system off

Shutting down heat generation with frost protection monitoring ("Standby mode")

For **every** heating circuit, select the **"Standby mode"** operating program and switch off DHW heating: See page 24 and 29.
- No central heating
- No DHW heating
- Frost protection for the heat generator and the DHW cylinder is enabled.

Note
- *All circulation pumps connected to the control unit are briefly started every 24 hours to prevent them from seizing up.*
- *The diverter valves are switched over at regular intervals.*

Switching off heat generation without frost protection monitoring

- No central heating
- No DHW heating
- Frost protection for the heat generator and the DHW cylinder is **not** enabled.

1. Turn off the ON/OFF switch: See page 42.

2. Close the gas shut-off valve.

Please note
If outside temperatures of below 3 °C are expected, take appropriate measures to protect the system from frost.
If necessary, contact your contractor.

Note
- *As they are not being supplied with power, the circulation pumps and diverter valves may seize up.*
- *If your system has been shut down for a prolonged period, you may need to reset the **"Time"** and **"Date"**: See page 32.*

Switching on the system

Vitodens 200-W

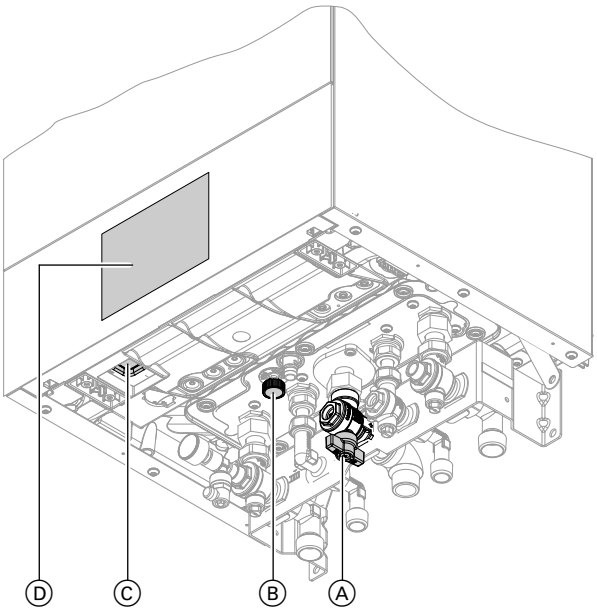

Fig. 8

Note
The control unit can be located at the top or bottom.

Ⓐ Gas shut-off valve
Ⓑ Drain & fill valve
Ⓒ ON/OFF switch
Ⓓ System pressure (shown on display)

Vitodens 222-W

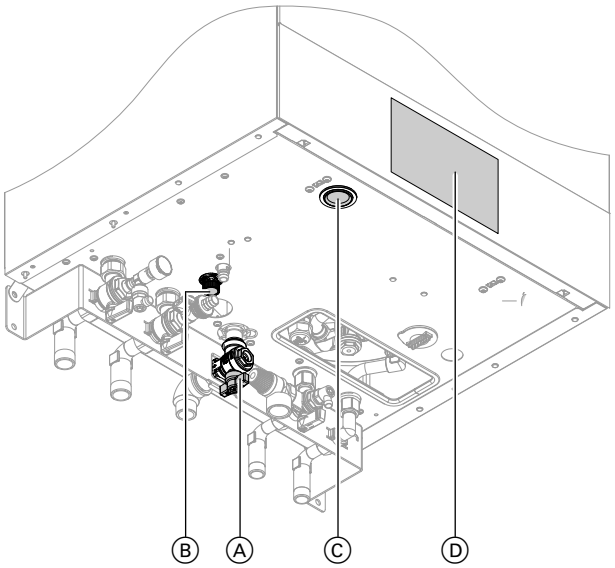

Fig. 9

Note
The control unit can be located at the top or bottom.

Ⓐ Gas shut-off valve
Ⓑ Drain & fill valve
Ⓒ ON/OFF switch
Ⓓ System pressure (shown on display)

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Switching on the system (cont.)

Vitodens 222-F and Vitodens 242-F

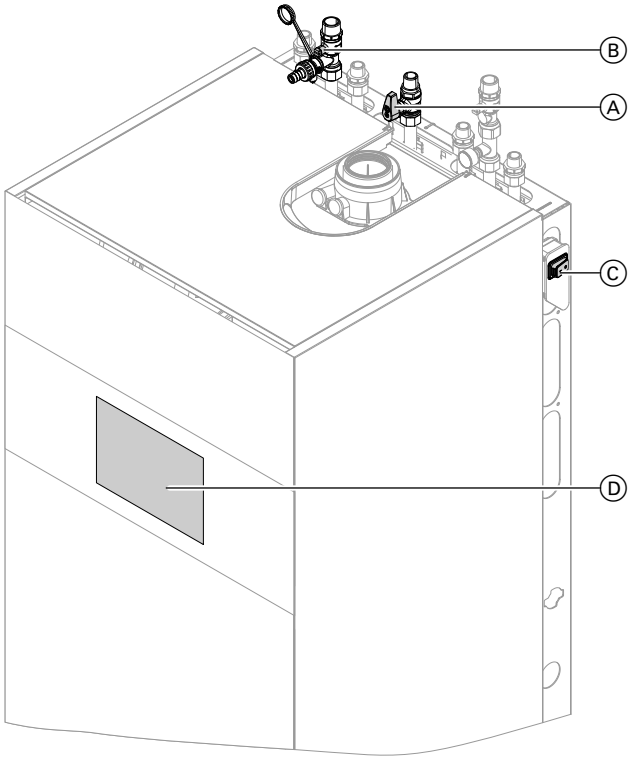

Fig. 10 Example with connections at the top

Ⓐ Gas shut-off valve
Ⓑ Drain & fill valve
Ⓒ ON/OFF switch
Ⓓ System pressure (shown on display)

Ask your contractor about the following:
- Required system pressure
- Position of ventilation apertures in the installation room, if applicable

1. Open gas shut-off valve Ⓐ.

2. Check whether the power supply to your system is switched on, e.g. at a separate MCB/fuse or mains isolator.

Note
The power supply to the system was switched on by your heating contractor during commissioning. If possible, do not interrupt the power supply, even when the system is in standby mode.

3. Turn ON/OFF switch Ⓒ ON.
- After a short while, the home screen is shown on the display.
- The Lightguide is illuminated constantly.

Your system and, if installed, your remote controls are ready for operation.

4. Check the system pressure:
- ◀ ▶ for the **"System overview"** default display
- If the pressure shown is below 1.0 bar:
  Please top up with water or notify your heating contractor.

Rooms are too cold

Cause	Remedy
The heat generator is switched off.	▪ Turn on the ON/OFF switch: See page 42. ▪ Switch ON the power supply to your system, e.g. at a separate MCB/fuse or mains isolator.
▪ Incorrect control unit settings. ▪ The remote control (if installed) or the room temperature controller (if installed) is set incorrectly.  Remote control or room temperature controller operating instructions	Central heating must be enabled. Check the settings and correct if required: ▪ Operating program: See page 16. ▪ Room temperature/flow temperature: See page 24. ▪ Time: See page 32. ▪ Time program for central heating: See page 25. ▪ Only for weather-compensated operation: Heating curve: See page 25. ▪ Only for weather-compensated or continuous operation: The holiday program is switched on: See page 27.
The DHW cylinder is being heated.	Wait until the DHW cylinder has been heated up. Reduce the DHW draw-off rate or temporarily reduce the set DHW temperature as required.
No fuel.	Open the gas shut-off valve. If necessary, check with your gas supply utility.
"Burner fault" is displayed.	Reset the burner: See page 39. ⚠ **Danger** If faults are not rectified, they can have life threatening consequences. Do not reset the burner several times in quick succession. Immediately notify your contractor if a burner fault occurs. Your contractor will be able to analyse the cause and rectify the fault.
"Fault" is displayed.	Check what type of fault it is. Make a note of the fault message and acknowledge the fault: See page 39. If necessary, notify your contractor.
"Screed drying" is switched on.	No action required. After expiry of the screed drying time, the selected operating program is switched on.

Rooms are too hot

Cause	Remedy
▪ Incorrect control unit settings. ▪ The remote control (if installed) or the room temperature controller (if installed) is set incorrectly.  Remote control or room temperature controller operating instructions	Check the settings and correct if required: ▪ Operating program: See page 16. ▪ Room temperature/flow temperature: See page 24. ▪ Time: See page 32. ▪ Time program for central heating: See page 25. ▪ Only for weather-compensated operation: Heating curve: See page 25. ▪ Only for weather-compensated or continuous operation: The **"Holidays at home"** function is switched on: See page 26.
"Fault" is displayed.	Check what type of fault it is. Make a note of the fault message and acknowledge the fault: See page 39. If necessary, notify your contractor.
"Screed drying" is switched on	No action required. After expiry of the screed drying time, the selected operating program is switched on.

There is no hot water

Cause	Remedy
The heat generator is switched off.	▪ Turn on the ON/OFF switch: See page 42. ▪ Switch ON the power supply to your system, e.g. at a separate MCB/fuse or mains isolator.
▪ Incorrect control unit settings. ▪ The remote control (if installed) or the room temperature controller (if installed) is set incorrectly.  Remote control or room temperature controller operating instructions	DHW heating must be enabled. Check the settings and correct if required: ▪ Operating program: See page 16. ▪ DHW temperature: See page 29. ▪ Time: See page 32. ▪ Time program for DHW heating: See page 29. ▪ Only for weather-compensated or continuous operation: The holiday program is switched on for all heating circuits: See page 27.
No fuel.	Open the gas shut-off valve. If necessary, check with your gas supply utility.
"Fault" is displayed.	Check what type of fault it is. Make a note of the fault message and acknowledge the fault: See page 39. If necessary, notify your contractor.
"Screed drying" is switched on	No action required. After expiry of the screed drying time, the selected operating program is switched on.

The DHW is too hot

Cause	Remedy
Incorrect control unit settings.	Check and correct the set DHW temperature if required: See page 29.
The hygiene function is switched on.	Wait until the hygiene function has been completed.
DHW temperature for solar DHW heating is set too high.	Have your contractor change the setting.

"Fault" is displayed

Cause	Remedy
System fault	Proceed as described on page 39.

and "Service" are displayed

Cause	Remedy
The time for a service as specified by your contractor has arrived.	Proceed as described on page 38.

"Panel locked" is displayed

Cause	Remedy
The control panel is locked.	Unlock it: See page 31.

"External hook-up" is displayed

Cause	Remedy
The set operating program was changed over by an external device, e.g. an EM-EA1 extension (DIO electronics module): See page 17.	No action required. Once the external changeover no longer applies, the set operating program is switched on again.

Cleaning

The appliances can be cleaned with a commercially available domestic cleaning agent (non-scouring). Clean the surface of the programming unit with a microfibre cloth.

Inspection and maintenance

The inspection and maintenance of a heating system is prescribed by the Energy Saving Ordinance [EnEV - Germany] and the DIN 4755, DVGW-TRGI 2008 and DIN 1988-8 standards.

Regular maintenance ensures trouble-free, energy efficient, environmentally responsible and safe heating. Your heating system must be serviced by an authorised contractor at least every 2 years. For this, it is best to arrange an inspection and maintenance contract with your local heating contractor.

Appliance

Increased contamination raises the flue gas temperature and thereby increases energy losses. We recommend the appliance is cleaned annually.

DHW cylinder

Standards DIN 1988-8 and EN 806 specify that maintenance and cleaning should be carried out no later than 2 years after commissioning and as required thereafter.
Only a qualified contractor should clean the inside of the DHW cylinder and the DHW connections.

If any water treatment equipment (e.g. a sluice or injection system) is installed in the cold water supply of the DHW cylinder, ensure this is refilled in good time. For this, observe the manufacturer's instructions.

Safety valve (DHW cylinder)

The function of the safety valve must be checked every six months by the user or a contractor through venting (see valve manufacturer's instructions). The valve seat may become contaminated.
Water may drip from the safety valve during a heat-up process. The outlet is open to the atmosphere.

! **Please note**
Overpressure can cause damage.
Do not close the safety valve.

Potable water filter (if installed)

To maintain high hygienic standards, proceed as follows:

- Replace filter element on non-back flushing filters every six months (visual inspection every two months).
- On back flushing filters, back flush every two months.

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Damaged cables / lines

If there is damage to the connecting cables or lines of the appliance or externally installed accessories, these must be replaced with special cables or lines. Only use Viessmann cables / lines as replacement. For this, notify your qualified contractor.

Overview of "Main menu"

Note
Depending on the features of your system, not all of the displays and checks listed may be available under ☰.

☰

- **Heating**
  - Heating circuit 1
    - Set room temperatures or Set flow temperature
    - Heating time program
    - Only for weather-compensated operation: Heating curve
  - Only for weather-compensated or continuous operation: Additional heating circuits ②, ...
    - As for ① Heating circuit 1
- **Test mode**
- **DHW**
  - DHW ON/OFF
  - DHW set temperature
  - Time program, DHW
  - Time program, DHW circulation
  - Hygiene function
- **Settings**
  - Language
  - Screen setting
  - Date and time
  - Buzzer
  - Only for weather-compensated or continuous operation: Rename heating circuits
  - Factory settings
  - Internet
  - Low power radio ON/OFF
  - Clean screen
  - Units
  - Lock panel
  - Change password
  - Selecting the default display

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Overview of "Main menu" (cont.)

- **ⓘ Information**
  - ⓘ General
    - System pressure
    - Only for weather-compensated operation: Outside temperature
    - Flow temperature
    - Primary circuit pump
    - Temperature, low loss header
    - Flue gas temperature
    - Burner
    - Burner hours run
    - Thermal output
    - Central fault message
    - Screed function
    - Time
    - Date
    - Serial number boiler
    - Serial number device
  - Ⓜ1 Heating circuit 1
    - Operating program
    - Operating status
    - Only for weather-compensated or continuous operation: Time program
    - Room temperature
    - Set reduced room temperature or Reduced
    - Set normal room temperature or Normal
    - Only for weather-compensated or continuous operation: Set comfort room temperature or Comfort
    - Only for weather-compensated operation: Heating curve slope
    - Heating curve level
    - Heating circuit pump
    - Flow temperature
    - Only for weather-compensated or continuous operation: Holiday program
    - Only for weather-compensated or continuous operation: Holidays at home
  - Only for weather-compensated or continuous operation: Additional heating circuits Ⓜ2, ...
    - As for Ⓜ1 Heating circuit 1

Overview of "Main menu" (cont.)

Information		
	DHW	
		Time program, DHW
		Time program, DHW circulation
		DHW temperature
		DHW circulation pump
		Cylinder primary pump
		Hygiene function last performed
	Burner	
		Burner
		Burner hours run
		Burner starts
		Burner modulation
		Flow temperature
		Flue gas temperature
		Flow sensor
	Service contact details	
	Internet	
		Manufacturer's details
		MAC address
		Activated
		Network
		Signal strength
		DHCP activated
		Ipv4 address
		Ipv4 subnet mask
		Standard gateway
		Primary DNS server
		Secondary DNS server
		Backend connection
		Network connection
	Open source license	

Overview of "Main menu" (cont.)

ⓘ Information		
	☀ Solar energy	
		Solar energy bar chart
		Collector temperature
		Solar DHW
		Solar circuit pump (operating time)
		Solar energy
		Solar circuit pump (operating state)
		DHW set temperature for reheating suppression
		Solar stagnation
		Solar circulation pump
		TS3: Buffer temperature
		TS4: Return temperature, heating circuit
		Solar 3-way valve position
		Solar central heating backup
		TS3: DHW preheating temperature

Only for weather-compensated or continuous operation:

Holiday program	
	Note *This can be selected only if **"Apartment building"** was selected during commissioning and multiple heating circuits are installed.*
	Select all
	Heating circuit 1
	Heating circuit 2
	etc.

Only for weather-compensated or continuous operation:

Holidays at home	
	Note *This can be selected only if **"Apartment building"** was selected during commissioning and multiple heating circuits are installed.*
	Select all
	Heating circuit 1
	Heating circuit 2
	etc.

Message lists

Service

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Terminology

Standby mode

Heat generation is switched off.

Only frost protection of heat generator and DHW cylinder is active. No central heating, no DHW heating

Setback mode (reduced heating mode)

See "Reduced heating mode".

System version

The system version describes the components of your system.

Some examples:
- Heat generator
- Heating circuit pump
- Mixer
- Valves
- Electronics module
- Radiator

Every system is individually configured and adapted to the local conditions by your heating contractor.

Operating program

The operating program enables you to define the following, for example:
- How you heat your rooms
- Whether you heat DHW

Operating status

See "Time program".

Operating mode

See "Heating operation".

Mixer extension kit

Assembly (accessories) for controlling a heating circuit with mixer: See "Mixer".

Screed drying

Your contractor can switch on this function for screed drying, for example in your new build or extension. This means your screed is dried in line with a fixed time program (temperature/time profile) that is appropriate for the building materials used.

Screed drying affects all heating circuits:
- All rooms are heated according to the temperature/time profile.
  Your settings for central heating have no effect on the duration of screed drying (max. 32 days).
- No DHW heating

Underfloor heating

Underfloor heating systems are slow, low temperature heating systems that respond only very slowly to short term temperature changes.

Heating with reduced room temperature at night therefore does not result in any significant energy savings.

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Terminology (cont.)

Heating operation

Operating modes

To heat your home, the heat generator provides heat as specified by the set flow temperature. The operating mode determines whether the flow temperature is specified with a fixed value or whether it is automatically calculated and adjusted subject to several ancillary conditions.

Your contractor can configure the following operating modes during commissioning:
- Weather-compensated operation
- Constant mode
- Room temperature-dependent operation

Comfort mode

For periods when you are at home during the day, heat your home with the comfort room temperature or the comfort flow temperature, depending on the operating mode. Set the periods (time phases) with the **"Comfort"** temperature level using the time program for central heating.

Constant mode

In constant mode the heat generator provides heating water with a constant flow temperature regardless of the outside temperature.
With this operating mode, you can operate several heating circuits via your control unit.

Standard heating mode

For periods when you are at home during the day, heat your home with the normal room temperature or the normal flow temperature, depending on the operating mode. Set the periods (time phases) with the **"Standard"** temperature level using the time program for central heating.

Room temperature-dependent heating operation

In room temperature-dependent operation a room is heated until the set room temperature has been reached. For this, a separate temperature sensor must be installed in the room.
The heating output is regulated independently of the outside temperature.
With this operating mode, you can operate one heating circuit via your control unit. You can input some of the settings for this heating circuit at your room temperature controller.

Reduced heating operation

For periods when you will be absent or during the night, heat your rooms with the reduced room temperature or the reduced flow temperature, depending on the operating mode. Set the periods (time phases) with the **"Reduced"** temperature level using the time program for central heating.
With underfloor heating systems, reduced heating operation only yields limited energy savings (see "Underfloor heating system").

Weather-compensated heating operation

In weather-compensated operation, the flow temperature is controlled according to the outside temperature. More heat is made available at a lower outside temperature than at a higher one.
The outside temperature is captured and transmitted to the control unit by a sensor fitted outside the building.
With this operating mode, you can operate several heating circuits via your control unit. If remote control units are installed in your rooms, you can also adjust the settings at the remote control units.

Heating curve

Heating curves illustrate the relationship between the outside temperature, the set room temperature and the flow temperature. The lower the outside temperature, the higher the flow temperature.
In order to guarantee sufficient heat with minimum fuel consumption at any outside temperature, the conditions of your building and system must be taken into consideration. The heating curve is set by your contractor for this purpose.

Terminology (cont.)

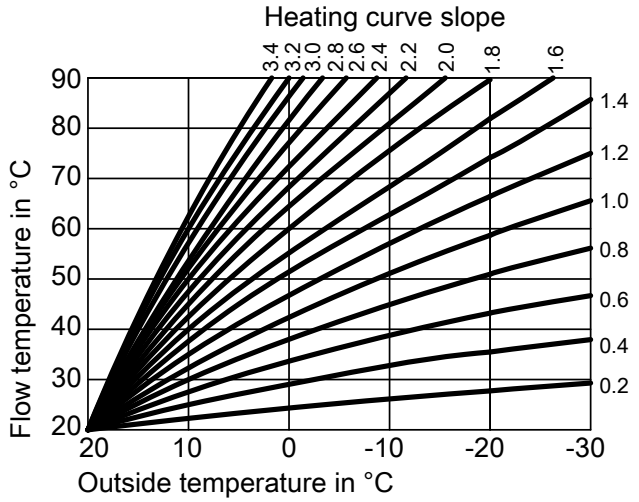

Fig. 11

Setting the slope and level, taking the heating curve as an example

Factory settings:
- Slope = 1.4
- Level = 0

The heating curves shown apply with the following settings:
- Heating curve level = 0
- Standard room temperature (set room temperature) = 20 °C

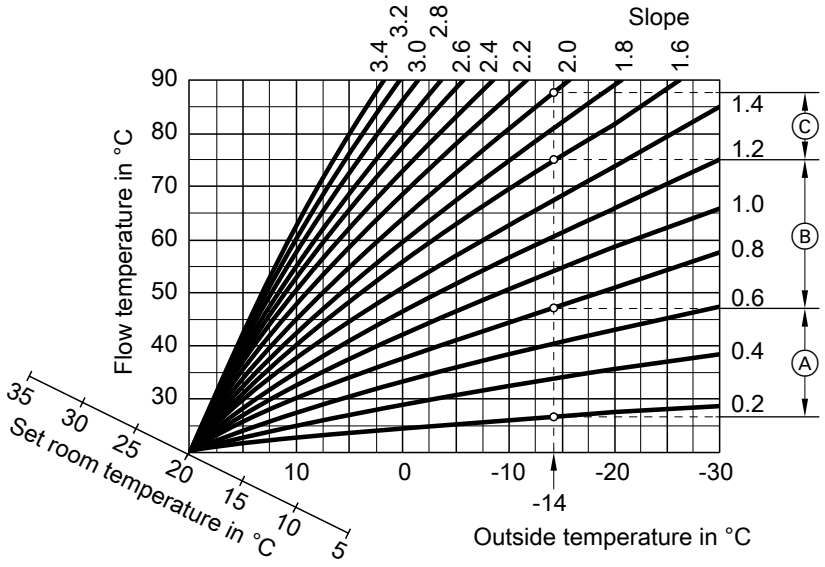

Fig. 12

For outside temperature of **−14 °C**:
- Ⓐ Underfloor heating system: Slope 0.2 to 0.8
- Ⓑ Low temperature heating system: Slope 0.8 to 1.6
- Ⓒ System with a flow temperature in excess of 75 °C, slope 1.6 to 2.0

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Terminology (cont.)

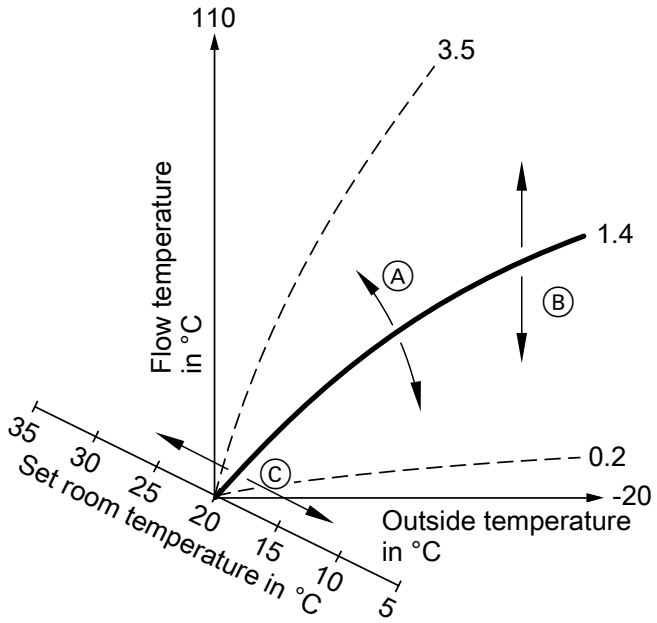

Fig. 13

Note
Setting the slope or level too high or too low will not cause any damage to your heating system.
Both settings affect the level of the flow temperature, which may then be too low or unnecessarily high.

Ⓐ If you change the slope:
The steepness of the heating curves changes.
Ⓑ If you change the level:
The heating curves are shifted in parallel in a vertical direction.
Ⓒ If you change the standard room temperature (set room temperature):
The heating curves are shifted along the "Set room temperature" axis.

Heating circuit

A heating circuit is a sealed unvented circuit connecting the heat generator and the radiators, in which the heating water circulates.
A system may comprise several heating circuits.
For example, one heating circuit for the rooms occupied by you and one heating circuit for the rooms of a separate apartment.

The heating circuits are designated at the factory as **"Heating circuit 1"**, **"Heating circuit 2"**, etc.
If you or your qualified contractor have renamed the heating circuits, e.g. as "Apartment", that name will be displayed instead of **"Heating circuit..."**.

Heating circuit pump

Circulation pump for circulating the heating water in the heating circuit

Mixer

Hot heating water from the heat generator is mixed with cooled heating water from the heating circuit. The heating water, thus brought to the required temperature, is pumped to the heating circuit by the heating circuit pump. To ensure the required set room temperature is achieved, the control unit adjusts the flow temperature via the mixer to suit different conditions.

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Terminology (cont.)

Night setback

See "Reduced heating mode"

Open flue operation

The combustion air is drawn from the room where the heat generator is installed.

Room sealed operation

The combustion air is drawn from outside the building.

Room temperature

- Standard room temperature or comfort room temperature:
  Set the standard room temperature or comfort room temperature for periods when you are at home during the day.
- Reduced room temperature:
  For periods when you will be absent or during the night, set the reduced room temperature; see "Heating mode".

Return temperature

The return temperature is the temperature at which the heating water leaves a system component such as a heating circuit.

Safety valve

Safety equipment that must be installed in the cold water pipe by your contractor. The safety valve opens automatically to prevent excess pressure in the DHW cylinder.

The heating circuits are also equipped with safety valves.

Solar circuit pump

In conjunction with solar thermal systems.

The solar circuit pump delivers the cooled heat transfer medium from the indirect coil of the DHW cylinder to the solar collectors.

Set temperature

See "Set temperature".

Summer mode

In warmer months, you can switch off heating operation.
To do so, select **"DHW"** operating program **"On"** and **"Standby mode"**.

The system remains in operation for DHW heating. Central heating is switched off.

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Terminology (cont.)

Cylinder primary pump

Circulation pump for heating the DHW in the DHW cylinder.

Set temperature

Specific temperature that should be reached, e.g. set DHW temperature for example.

Drinking water filter

A device that removes solids from the water. The drinking water filter is installed in the cold water pipe upstream of the DHW cylinder or the instantaneous water heater.

Flow temperature

The flow temperature is the temperature at which the heating water enters a system component such as a heating circuit.

Weather-compensated operation

See "Heating mode"

Time program

In the time programs, you specify what your heating system should do at what time.

Operating status

The operating status indicates how a component of your heating system is being operated.

For example, the operating statuses for central heating have different temperature levels.
The times for the operating status changeover are defined when the time programs are set.

DHW circulation pump

The DHW circulation pump transports the DHW around a loop line between the DHW cylinder and the draw-off points (e.g. hot tap). This ensures that hot water is rapidly available at the draw-off points.

Information on disposal

Disposal of packaging

Your contractor will dispose of the packaging from your Viessmann product.

Information on disposal (cont.)

DE: Packaging waste is channelled for recycling to a certified disposal contractor in line with statutory regulations.

AT: Packaging waste is channelled for recycling to a certified disposal contractor in line with statutory regulations. Use the ARA statutory disposal system (Altstoff Recycling Austria AG, licence number 5766).

Final decommissioning and disposal of the heating system

Viessmann products can be recycled. Components and fluids from your heating systems are not part of ordinary domestic waste.
Please speak to your contractor about the correct disposal of your old system.

DE: Operating fluids (e.g. heat transfer medium) can be disposed of at municipal collection points.

AT: Operating fluids (e.g. heat transfer medium) can be disposed of at municipal collection points (ASZ).

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Certification

RoHS
compliant
2011 / 65 / EU

Your contact

Contact your local contractor if you have any questions about your system or wish to arrange maintenance or repair work. You can find local contractors on the internet at www.viessmann.de.

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