Operating instructions

for the system user



Wall mounted gas boiler with black/white screen



VITODENS 050-W



6179763 GB 3/2022 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.

Safety instructions for working on the system

Appliance connection

- The appliance may be connected and commissioned only by authorised contractors.
- Only operate the appliance with suitable fuels.
- Observe the specified electrical connection requirements.
- Modifications to the existing installation may be carried out only by authorised contractors.



Danger

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

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

For your safety (cont.)

Work on the appliance

- All settings and work on the appliance must be carried out as specified in these operating instructions.
 Further work on the appliance may be carried out only by authorised contractors.
- Never open the appliance.
- Never remove casings.
- Never change or remove attachments or fitted accessories.
- Never open or tighten pipe connections.



Danger

Hot surfaces can cause burns.

- Never open the appliance.
- Never touch the hot surfaces of uninsulated pipes, fittings or flue pipes.

Auxiliary components, spare and wearing parts

Please note

Components not tested with the heating system may damage the system or affect its function. Have all installation or replacement work carried out exclusively by qualified contractors.

Safety instructions for operating the system

Damage to the appliance



Danger

Damaged equipment poses a safety hazard.

Check the appliance for external damage. Never start up a damaged appliance.

If you smell gas



Danger

Escaping gas can lead to explosions which may result in serious injury.

- Do not smoke! Prevent naked flames and sparks. Never switch lights or electrical appliances on or off.
- Close the gas shut-off valve.
- Open windows and doors.
- 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).

For your safety (cont.)

If you smell flue gas



Danger

Flue gas can lead to life threatening poisoning.

- Shut down the heating system.
- Ventilate the installation site.
- Close all doors in the living space.

If there is a 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 electric shock.

- Switch off the heating system at the external isolator (e.g. fuse box, domestic distribution board).
- Notify your heating contractor.

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.

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. naphtha/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.

- Maintain the permissible ambient temperatures as detailed in these operating instructions.
- 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).

For your safety (cont.)

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 a reverse flow of 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 a reverse flow of flue gas. Take suitable steps to ensure an adequate supply of combustion air. If necessary, contact your contractor.

Index

1.	Liability		8
2.	Introductory information	Symbols	9
	•	Terminology	
		Intended use	
		Product information	
		Weather-compensated operation	
		Constant operation	
		Room temperature-dependent operation	
		Operation Parmissible ambient temporatures in the installation recommends.	
		Permissible ambient temperatures in the installation room	
		Software licences	
		Commissioning	
		Your system is preset	
		Energy saving tips	
		Tips for greater comfort	12
3.	Operation	Operating principles	13
		■ Touch buttons	13
		■ Controller for room temperature-dependent operation	13
		Status display with Lightquide	13
		Screen displays	
		■ Standby	
		■ Home screen	
		■ Default displays	
		■ Buttons and symbols	
		■ Buttons and symbols in navigation area ®	
		■ Buttons and symbols in function area (A)	
		Overview of main menu	
		Calling up the main menu Operating programs for central heating and DHW heating	
4.	Room heating	Factory settings for the temperature levels	
		Switching on the central heating	
		Turning off central heating	16
		Adjusting the temperature for central heating	16
		Adjusting the heating curve P.3	16
		Holiday at home	17
		Holiday program	17
5.	DHW heating	Switching on DHW heating	18
-		Adjusting the temperature for DHW heating	
		Setting the Eco function for DHW heating 1	
		Switching off DHW heating	
c	Curther cettings	Adjusting the display brightness RF	10
Ο.	Further settings	Adjusting the display brightness P.5	
		Setting standby for the display P.5.	
		Switching the "Lightguide" on and off P.9	
		Switching internet access on or off	
		■ Establishing a WiFi connection	
		Switching on WiFi	
		Switching low power radio on/off P.8	20
7.	Checks	Checking operating data P.2	
		Checking licences for the integrated communication module	21
		■ Calling up the license information for third party components	21
		■ Third party software	22
		Checking WiFi information P.7	22
		Checking fault messages F-	23
		■ Burner fault A A	23

Index (cont.)

8.	Emissions test mode	Starting emissions test mode	
9.	Switching on and off	Switching the system off	26
	_	■ With frost protection monitoring	26
		■ Without frost protection monitoring	26
		Switching on the system	26
10.	What to do if	Rooms are too cold	. 27
		Rooms are too hot	27
		There is no hot water	28
		The DHW is too hot	28
		"A" and the fault code are flashing	28
		"A" is shown	
11.	Maintenance	Cleaning	29
		Inspection and maintenance	
		■ Appliance	
		■ DHW cylinder	
		■ Safety valve (DHW cylinder)	
		Potable water filter (if installed)	
		Damaged cables / lines	
12.	Appendix	Terminology	31
	• •	Operating program	
		■ Heating curve	31
		■ Heating circuit	
		■ Heating circuit pump	32
		■ Room temperature	
		■ Safety valve	33
		Set temperature	33
		■ Drinking water filter	33
		■ Flow temperature	33
		■ Time program	
		Information on disposal	
		■ Disposal of packaging	
		■ Final decommissioning and disposal of the heating system	
13.	Keyword index		34

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
1	Step in a diagram: The numbers correspond to the order in which the steps are carried out.
!	Warning of material losses and environ- mental pollution
4	Live electrical area
③	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.
X	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 CECS215-2017 and 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.

The appliance is intended exclusively for domestic or semi-domestic use; even users who have not had any instruction are able to operate the appliance safely.

Intended use (cont.)

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.

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
- Constant operation
- Room temperature-dependent operation:
 - Constant operation as option with room temperature controller
 - OpenTherm controller

Your heating contractor will configure the operating mode during commissioning in accordance with your heating system.

These instructions describe all 3 operating modes. The setting options for room temperature-dependent operation with an OpenTherm controller via the system are limited:



OpenTherm controller operating instructions

Weather-compensated operation

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 can be operated with the control unit.

Constant operation

In constant operation, the heat generator provides heating water with a constant flow temperature regardless of the outside temperature.

In constant operation, 1 heating circuit without mixer can be operated with the control unit.

Room temperature-dependent operation

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.

Constant operation as option with room temperature controller

In constant operation with room temperature controller, the control unit measures the room temperature and compares it with the selected required room temperature. If the temperatures are different, the room temperature is regulated to the required value.

Note

The heating water temperature must be set high enough in order to achieve the required room tempera-



Operating instructions for room temperature 🧀 controller

OpenTherm controller

In room temperature-dependent operation, the central heating is switched on or off subject to the room temperature. The flow temperature remains constant.

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 black/white screen.

A communication module is integrated in the control unit. This allows the system to be remotely controlled via the internet using an app (except when operating via OpenTherm controller).

Permissible ambient temperatures in the installation room

Please note

The appliance may develop faults if it is operated outside the specified temperature ranges. Ensure that the specified temperature range is maintained in the installation room.

To prevent malfunctions, ensure that the room is free from the risk of frost, dry and heated.

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.

Licences for the integral communication module: See page 21.

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 mode

The rooms are heated to 20 °C.

Central heating in constant operation

The set flow temperature is 60 °C.

Central heating in room temperature-dependent operation

The rooms are heated in accordance with the settings on your room temperature controller or OpenTherm controller.

DHW heating

DHW is heated to 50 °C.

Frost protection

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

The frost protection function is only possible when an outside temperature sensor is connected. Frost protection function is active at outside temperatures below 5 °C. The burner is switched on and the boiler water temperature is held at 20 °C.

Power failure

All settings are retained if there is a power failure.

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 higher than 20 °C.

■ In room temperature-dependent operation, time programs for central heating can only be adjusted at the room temperature controller or OpenTherm controller.



Operating instructions for the room temperature controller or OpenTherm controller

Saving energy on DHW heating

During regular periods of absence, heat the DHW to a lower temperature.

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 16.
- Only for weather-compensated operation: Adjust the heating curves so that your home is heated with your individual preferred temperature all year round: See page 16.
- In room temperature-dependent operation, time programs for central heating can only be adjusted at the room temperature controller or OpenTherm controller.



Operating instructions for the room temperature controller or OpenTherm controller

Operating principles

Touch buttons

You can adjust any setting on your system centrally at the control unit.

The control unit is equipped with touch buttons. To input settings and check information, tap the on-screen buttons.

Controller for room temperature-dependent operation

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



Operating instructions for the room temperature controller or OpenTherm controller

Status display with Lightguide

Depending on the heat generator, a white spot (Lightguide) is shown on the display.

Meaning of the display:

- Lightguide pulsates slowly: Display is in standby mode.
- Lightguide flashes quickly: There is a fault in the system.

Note

You can switch off the Lightguide. See page 19.

Screen displays

Standby

After approx. 2 minutes, the display backlighting is switched off.

You can deactivate standby mode: See page 19.

Home screen

After switching on or activating the control unit the home screen is shown.

In the delivered condition, **\(\)** heating circuit 1 is shown as the home screen.

Call up the home screen:

- Standby is active: Tap any button.
- From anywhere in the menu:

Default displays

On the home screen, you can call up the various default displays to see the status of the most important functions.

Default screen displays:

In weather-compensated operation: Set room tem-

In constant operation: Flow temperature

DHW temperature System pressure

"ON"/"OFF"

▲ Current fault message (if a fault is present)

To call up the default displays:

- 2. Tap = repeatedly to switch between the default displays.

Screen displays (cont.)

Buttons and symbols

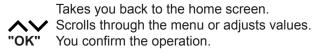


Fig. 1

- (A) Function area
- B Navigation area

Buttons and symbols in navigation area (B)

Calls up the main menu.
Or



Buttons and symbols in function area (A)

Note

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

System pressure

- DHW ECO function
- Service menu active
- ▲ Fault display active
- Burner status active
- WiFi connection
- Emissions test mode
- Reset the burner.

Symbols

Heating circuit

→ DHW temperature

Overview of main menu

In the main menu, you can check and adjust all of the settings for the appliance's range of functions.

Available menus:

- "P.2" Information
- "P.3" Heating curve

- "P.5" Display brightness
- "P.§" Display standby mode
- "P.7" Internet access and information
- "P.8" Low power radio access and information
- "P.3" Lightguide

Calling up the main menu

Tap the following buttons:

1.

to call up the main menu.

- 2. for the required menu
- 3. "OK" to confirm

Operating programs for central heating and DHW heating

Note

The operating programs for central heating and DHW heating can be set separately or all together for the entire system.

Operating program	Function
Room heating	
Heating circuit /// is active.	The rooms of the selected heating circuit are heated in accordance with the specified room temperature or flow temperature: See chapter "Central heating".
	Note In room temperature-dependent operation, a time program for central heating can only be set at the room temperature controller or OpenTherm controller: See the operating instructions for the room temperature controller or OpenTherm controller.
Heating circuit 1 ₩ is not active.	 No room heating Frost protection for the heat generator is active.
DHW heating	
DHW 🏲 is active.	DHW is heated in accordance with the specified DHW temperature: See chapter "DHW heating".
DHW • is not active.	No DHW heatingFrost protection for the DHW cylinder is active.
System	
The entire system is switched on.	 The rooms are heated in accordance with the specifications for room temperature or flow temperature: See chapter "Central heating". Note
	In room temperature-dependent operation, a time program for central heating can only be set at the room temperature controller: See the operating instructions for the room temperature controller. ■ DHW is heated in accordance with the specified DHW tempera-
	ture: See chapter "DHW heating".
The entire system is switched off.	 No room heating No DHW heating Frost protection for the heat generator and the DHW cylinder is active.

Room heating

Factory settings for the temperature levels

Weather-compensated operation

Standard room temperature: 20 °C

Constant operation and room temperature-dependent operation

■ Standard flow temperature: 60 °C

Constant operation and room temperature-dependent operation with room temperature controller

Only change the set values for the flow temperature if the heat supply for central heating is insufficient.

Room temperature-dependent operation with OpenTherm controller

In this operating mode, it is not possible to adjust temperatures via the control unit.

See the OpenTherm controller operating instructions.

Switching on the central heating

Tap the following buttons:

- 2. for 4 s until □ \mathbb{\text{appears}}.
- 3. "OK" to confirm.
- **4. \equiv** to exit the menu.

Turning off central heating

You do not want to heat your rooms but you want to have DHW available (summer mode).

Tap the following buttons:

- repeatedly to switch between the default displays until ₩ appears.
- 2. V for 4 s until #F appears.

3. "OK" to confirm.

4. to exit the menu.

Note

- To prevent the circulation pump from seizing, it briefly starts every 24 hours.
- Boiler frost protection is enabled.

Adjusting the temperature for central heating

Adjust the temperature for central heating to suit your needs.

Note

With room temperature-dependent operation, you adjust the set room temperature on your room temperature controller.

Tap the following buttons:

until ₩ appears.

- 2. Select the set temperature
- 3. "OK" to confirm
- 4. to exit the menu.

Adjusting the heating curve P.3

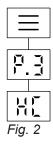
The heating curve can only be adjusted in weathercompensated operation. By setting the heating curve, you influence the flow temperature provided by the heat generator.

Adjusting the heating curve P.3 (cont.)

So that your rooms are heated optimally at any outside temperature, you can adjust the heating curve slope and level.

Factory setting:

Slope: 1.4Level: 0



Tap the following buttons:

1. \equiv for 4 s to enter the main menu.

2. / / P.3 should be selected

3. "OK" to confirm

4. / H should be selected.

5. "OK" to confirm

6. \wedge / \vee to set the value for the slope.

7. "OK" to confirm

9. "OK" to confirm

10. repeatedly to exit the menu.

Holiday at home

The "holiday at home" function is only available in combination with the ViCare thermostat (accessories). The function is switched on and off via the ViCare app.

While the function is switched on, "E 3" appears on the display.

Holiday program

The "holiday program" function is only available in conjunction with the ViCare thermostat (accessories). The function is switched on and off via the ViCare app.

While the function is switched on, "E 3" appears on the display.

DHW heating

Switching on DHW heating

You want to have DHW available.

Tap the following buttons:

2. for 4 s until " appears.

3. "OK" to confirm.

4. \Rightarrow to exit the menu.

Adjusting the temperature for DHW heating

Factory settings: 50 °C

Adjust the DHW temperature to suit your needs.

3. "OK" to confirm

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

Tap the following buttons:

4. to exit the menu.

Select the set temperature

Setting the Eco function for DHW heating

Note

This function is only possible in conjunction with an instantaneous water heater (combi boiler).

You can set the Eco function via default display 1.

Tap the following buttons:

3. "OK" to confirm

When \checkmark is illuminated on the far left, you have successfully switched on the Eco function.

Switching off DHW heating

You do not want to have DHW available.

Tap the following buttons:

2. for 4 s until #F appears.

3. "OK" to confirm.

4. \equiv to exit the menu.

Adjusting the display brightness P.5

Set the right brightness for your display.

Tap the following buttons:

1. \Rightarrow for 4 s to enter the main menu.

2. / / P.5 should be selected

3. "OK" to confirm

4. / v to set the value

"HI" corresponds to the max. value.

5. "OK" to confirm

6. repeatedly to exit the menu.

Setting standby for the display P.5

Activate or deactivate standby.

Tap the following buttons:

1. = for 4 s to enter the main menu.

2. / / P.5 should be selected

3. "OK" to confirm

The display is always on.

The display enters standby mode after 2 min.

5. "OK" to confirm

6. \equiv repeatedly to exit the menu.

Switching the "Lightguide" on and off P.9

Depending on the heat generator, a white spot (Lightguide) is shown on the display during operation. In the delivered condition, the Lightguide is switched on. You can switch off the Lightguide.

Tap the following buttons:

1. for 4 s to enter the main menu.

2. / / P.3 should be selected.

3. "OK" to confirm

4. / ☐ ☐ or ☐ F should be selected.

Confirm your selection with "OK".

5. repeatedly to exit the menu.

Meaning of the display:

Lightguide pulsates slowly: Display is in standby mode.

Lightguide flashes quickly:
 There is a fault in the system.

Note

Faults are shown by flashing lights even if the Lightguide is switched off.

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 (2.4 gigahertz): See the following chapter. The required credentials for internet access to the control unit via app can be found on the adjacent label:

1			ı

Switching internet access on or off (cont.)

Establishing a WiFi connection

You will need the ViCare app on your mobile device to establish an internet connection with the heat generator.

Tap the following buttons:

- 1. "OK" for 4 s. The display will show a rotating bar until the WiFi symbol is illuminated on the far left.
- **2.** Start the ViCare app and follow the instructions in the app.

flashes. The connection to the local

network is being estab-

lished.

is dimly illuminated. The connection to the local

network has been estab-

lished.

is brightly illuminated. The connection to the server

has been established.

Fault while establishing the connection

"E10" Connection to the home network cannot be established.

Note

If **"E10"** appears on the display, check the connection to the router and whether the network password is correct.

"E12" Connection to the server cannot be established.

Note

If **"E12"** appears on the display, re-establish the connection at a later time.

Note

The fault code is displayed in parts; first "E1" and then "0".

Switching on WiFi

Tap the following buttons:

1. V"OK" simultaneously for 4 s to switch WiFi on

or off.

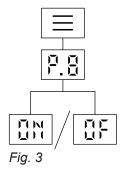
The display shows "ON" ⇒ WiFi is

switched on

or "OF" ⇒ WiFi is switched off.

Switching low power radio on/off P.8

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



Tap the following buttons:

1. = for 4 s to enter the main menu.

2. / / P.8 should be selected.

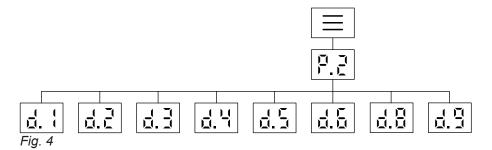
3. "OK" to confirm

5. "OK" to confirm

6. repeatedly to exit the menu.

Checking operating data P.2

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



Tap the following buttons:

- **5. "OK"** to confirm
- **1. =** for 4 s to enter the main menu.
- **6.** repeatedly to exit the menu.

- 2. / / P.2 should be selected.
- 3. "OK" to confirm
- - d.: Outside temperature
 - 4.2 Heat generator flow temperature
 - d.3 Primary pump speed in %
 - d.4 Flue gas temperature
 - 4.5 Burner hours run
 - d.5 Burner output
 - d.1 3-way valve position
 - Heating
 - Middle position (if installed)
 - 2 DHW

 - 4.9 Flow temperature, heating circuit

Checking licences for the integrated communication module

Switch on the WiFi to call up online legal information, such as open source licences:

On the home screen, press **OK** for approx. 4 s.

Calling up the license information for third party components

Requirement: Access point must be switched on.

Tap the following buttons:

- **1.** Call up the WiFi settings on your mobile device.
- Connect your mobile device to the WiFi "Viessmann-<xxxx>".A password prompt will be displayed.
- **3.** Enter the WPA2 network key as the password for the "Viessmann-<xxxx>" WiFi.

Note

The WPA2 network key 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.



Checking licences for the integrated... (cont.)

Follow the link "Third party Components Licences".

Third party software

1 Overview

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 as provided in this document. 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

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5 Contact information

Viessmann Climate Solutions SE
D-35108 Allendorf
Germany
Fax +49 64 52 70-27 80
Phone +49 64 52 70-0
open-source-software-support@viessmann.com
www.viessmann.de

4 How to obtain the source code

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Checking WiFi information P.7

You can check the current status of your WiFi connection, such as the signal strength.

Tap the following buttons:

- 1. for 4 s to enter the main menu.
- 2. / P.7 should be selected.

Checking WiFi information P.7 (cont.)

3. "OK" to confirm

One of the following statuses is displayed:

GFF WiFi off

- Signal strength very weak
- Signal strength weak
- Signal strength good
- 3 Signal strength very good
- ч Connection is established.
- 5 No data transfer
- 5 Communication error
- Offline
- Access point mode; the heat generator can be connected to the Vitoguide, for example.

4. "OK" to confirm

5. \equiv

repeatedly to exit the menu.

Checking fault messages &

If your heating system has a fault, \triangle and the fault code will be displayed.



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 contractor if a fault occurs. Your contractor will be able to analyse the cause and rectify the fault.

If a fault is active and is shown on the display, you can confirm with **OK** and return to the home screen. To call up this fault later, follow the steps below.

Note

- If you have connected a message facility 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. The message facility is switched on again.

Tap the following buttons:

1.
for 4 s to enter the main menu.

2. ^ / Y Er should be selected.

3. "OK" to confirm

/ \rightarrow to select fault message E 1 to E 5.

5. "OK" to confirm

6. ✓ / ✓ to call up further details about the fault code.

Note

Up to 5 fault messages can be displayed.

7. repeatedly to exit the menu.

If \triangle flashes and [L appears on the display, the burner is locked out. To reset the burner, see the next chapter "Resetting the burner".

Burner fault 69

The display shows [L and A flashes.

A fault has caused the burner to lock out. You can reset it.

Note

The burner fault display can be closed for the time being by pressing \equiv for 4 s. You can open the fault later by pressing \wedge \checkmark simultaneously.

Tap the following buttons:

- 1. \(\shi \) to see the fault number.
- 2. Make a note of the fault number.

 This enables the contractor to be better prepared and may save you unnecessary travelling costs.



Checking fault messages & (cont.)

Press ★ and ✓ for approx. 4 s.
A rotating bar will appear on the display. This indicates that the resetting process has been started. If the fault no longer exists, the home screen will

Notify your heating contractor if the fault recurs.

Starting emissions test mode 4

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.

 \blacksquare and \wedge – hold for 4 s.

A rotating bar is shown on the display. The process has been started. A check runs in the background to determine whether there is sufficient heat transfer.

As soon as emissions test mode is active, the heat generator flow temperature appears on the display.

Note

If "---" flashes on the display 3 times and then the home screen is shown, emissions test mode is not possible due to a low flow rate or low heat draw-off.

Stopping emissions test mode

Note

Emissions test mode ends automatically after 30 minutes.

Press **to** manually end emissions test mode.

Switching the system off

With frost protection monitoring

If you do not wish to use your heat generator for several days you can switch it off.

Set the operating mode to **OFF**.

Frost protection monitoring is active for the heat generator and the DHW cylinder.

Note

For frost protection for the entire heating system, see the operating instructions for the room temperature controller.

Without frost protection monitoring

Shut down your heating system completely if it will not be needed for long periods of time (several months). We recommend you contact your local heating contractor if you are planning to take your heating system out of use for long periods. Your heating contractor can then take suitable steps such as frost protection for the system or heating surface preservation as required.

- 1. Close the gas shut-off valve and safeguard against unauthorised reopening.
- Turn off the ON/OFF switch.
 The power to the system is now at zero volt.
 Note that the system is no longer protected against frost.

Switching on the system

Ask your contractor about the following:

- Required system pressure
- Position of ventilation apertures in the installation room, if applicable
- **1.** Open the gas shut-off valve.
- 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 the ON/OFF switch.
 - After a short while, the home screen is shown on the display.
 - The Lightguide is illuminated constantly. Your system and, if installed, remote control units are ready for operation.
- 4. Check the system pressure:
 - **until** the pressure gauge symbol **(**) lights up.
 - 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 heating system is off.	 Turn on the ON/OFF switch. Switch on the mains isolator if installed (outside the boiler room). Reset the MCB in the power distribution board (main domestic MCB).
Control unit or room temperature controller is not set correctly.	 Operation with room temperature controller: Set a higher flow temperature. Weather-compensated operation: Set a higher room temperature.
Only when operating with DHW heating: Priority for DHW heating is active ("六" is displayed).	Wait until the DHW cylinder has been heated up ("﴿"" disappears). In the case of operation with an instantaneous water heater, stop DHW draw-off.
No fuel.	With LPG: Check the fuel reserves and order more if necessary. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.
"A" is shown on the display.	Notify your heating contractor of the fault code shown.
"A" and "CL" flash on the display. The burner does not start.	Reset the burner: See page 23. Notify your heating contractor if the fault recurs. Danger If faults are not rectified, they can have life threatening consequences. Do not reset the burner several times in quick succession. Notify your heating contractor if a fault recurs. Your heating contractor will be able to analyse the cause and rectify the fault.
Air in the heating system.	Bleed radiators.
The burner is switched off. Blockage in the ventilation air supply or flue system.	Notify your local heating contractor.
The "holiday program" function is switched on via the ViCare app. The display shows "£ 3".	Use the ViCare app to check whether the "holiday program" function is switched on, change it if necessary, or switch it off.

Rooms are too hot

Cause	Remedy	
Control unit or room temperature controller is not set correctly.	Check and correct the room temperature or flow temperature.	
	Operating instructions for room temperature controller	
"A" is shown on the display.	Notify your heating contractor of the fault code.	
The "holiday at home" function is switched on via the ViCare app. The display shows "E 3".	Use the ViCare app to check whether the "holiday at home" function is switched on, change it if necessary, or switch it off.	

There is no hot water

Cause	Remedy	
The heating system is switched off.	 Turn on the ON/OFF switch. Switch on the mains isolator if installed (outside the boiler room). Reset the MCB in the power distribution board (main domestic MCB). 	
Control unit is not set correctly.	Check and correct the DHW temperature.	
No fuel.	With LPG: Check the fuel reserves and order more if necessary. With natural gas: Open the gas shut-off valve. If necessary, check with your gas supply utility.	
"A" is shown on the display.	Notify your heating contractor of the fault code shown.	
"A" and "CL" flash on the display. The burner does not start.	Reset the burner fault: See page 23. Notify your heating contractor if the fault recurs. Danger If faults are not rectified, they can have life threatening consequences. Do not reset the burner fault several times in quick succession. Notify your heating contractor if a fault recurs. Your heating contractor will be able to analyse the cause and rectify the fault.	
"Filter strainer" dirty (Gas condensing combi boilers only)	Have the filter strainer checked/replaced by your contractor.	

The DHW is too hot

Cause	Remedy
The control unit is not set correctly.	Check and correct the DHW temperature.

"A" and the fault code are flashing

The burner does not start. Reset the burner fault: See page 23. Notify your heating contractor if the fault recurs.	
If faults are not rectified, they can have life threatening consequences. Do not reset the burner fault several times in quick succession. Notify your heating contratif a fault recurs. Your heating contractor will able to analyse the cause and rectify the fault.	actor be

"▲" is shown

Cause	Remedy
Heating system fault	Notify your heating contractor of the fault code.

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 German Energy Saving Ordinance [EnEV] and the DIN 4755, DVGW-TRGI 2018, DIN 1988-8 and EN 806 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.

Maintenance

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.

Terminology

Operating program

The operating program enables you to define the following, for example:

- How you heat your rooms
- Whether you heat DHW

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.

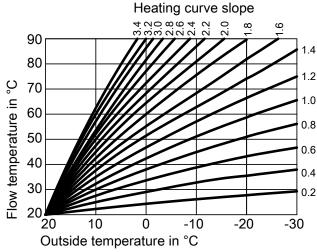


Fig. 5

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

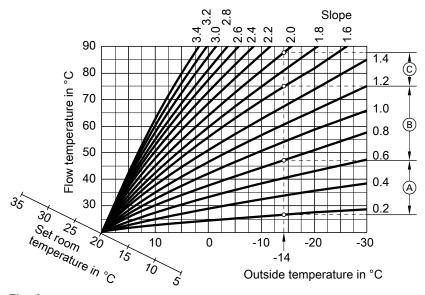


Fig. 6

Terminology (cont.)

For outside temperature of -14 °C:

- A Underfloor heating system: Slope 0.2 to 0.8
- B 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

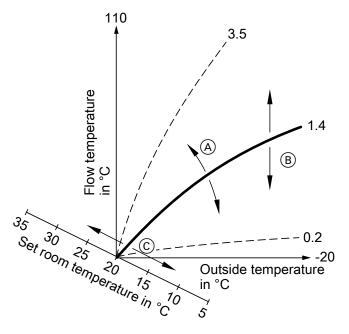


Fig. 7

- A If you change the slope:
 - The steepness of the heating curves changes.
- B 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.

Heating circuit pump

Circulation pump for circulating the heating water in the heating circuit

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.

Terminology (cont.)

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".

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.

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.

Time program

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

Information on disposal

Disposal of packaging

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

Final decommissioning and disposal of the heating system

Viessmann products can be recycled. Components and fluids from your heating system do not belong in ordinary domestic waste.

Please speak to your contractor about the correct disposal of your old system.

Keyword index

A	Home screen	• • • • • • • • • • • • • • • • • • • •
Ambient temperatures11	Hot rooms	27
	Hot water	28
В		
Brightness adjustment19	1	
Burner reset		10
Buttons		
	Installation room	
C	Intended use	
Central heating	Internet access, switching on	
- Factory setting11		19
Central heating, switching on		
		24
Central heating adjustment		
Checks	Level of heating curve	
- Fault messages23		
- Information	Licences	
– WiFi information	0 0	
Cleaning29		20
Cleaning information		
Cold rooms27		
Comfort (tips)		
Commissioning11, 26	Maintenance	29
-		
D	N	
Default displays13	No hot water	28
Default setting		
DHW heating	Notification of completion	
– Energy saving	·	
- Factory setting11		
DHW heating, switching off		26
DHW heating, switching on		
DHW temperature adjustment		
·		4 1
Display illumination		24
Drinking water filter		
_	Operating programs	
E	Operation	13
Emissions test mode		
Energy saving (tips)12		
	Power failure	
F	Pressure gauge	
Factory setting11	Pressure indicator	26
Fault	Product information	10
Filter	Pump	
- Drinking water	Heating circuit	32
Flow temperature	-	
Frost protection		
· · · · · · · · · · · · · · · · · · ·	Rooms are too cold	27
G	Rooms too hot	
Gas shut-off valve		
Glossary		
01035ai y	Safety valve	22
н		
	Screensaver	
Heat generator, switching on		
Heating circuit	•	33
Heating circuit pump		
Heating curve	With frost protection	
- Explanation31	Without frost protection	
Heating curve adjustment		
Holiday at home17		
Holiday program17	Standby mode	31

Keyword index (cont.)

Standby mode for the display	19
Status display	13
Summer mode	31
Switching off	
- DHW heating	18
- Heat generator	
Switching on	
- Central heating	
- DHW heating	
Symbols	9
System	
- Switching on	26
T	
Temperature	
- Set temperature	33
Terminology	31

Test mode	25
Time program	33
Turning off	
- Central heating	16
Turning off central heating	16
W	
Water too cold	
Water too hot	28
What to do if?	
WiFi	20
WiFi connection	20
WiFi connection, establishing	
Winter mode	

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.

Viessmann Climate Solutions SE 35108 Allendorf / Germany Telephone: +49 6452 70-0 Fax: +49 6452 70-2780 www.viessmann.com







Viessmann Limited Hortonwood 30, Telford Shropshire, TF1 7YP, GB Telephone: +44 1952 675000

Fax: +44 1952 675040 E-mail: info-uk@viessmann.com