

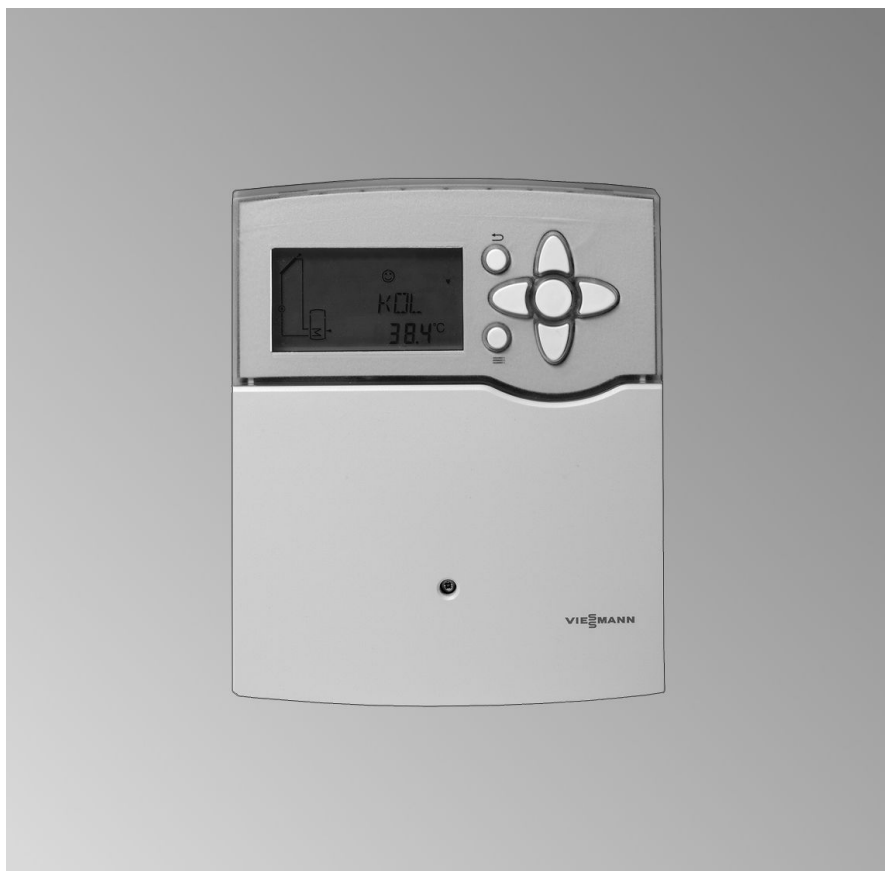
Operating instructions for the system user

VIESSMANN

Control unit for solar thermal systems



VITOSOLIC 100



Safety instructions

For your safety



Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained



Danger

This symbol warns against the risk of injury.



Please note

This symbol warns against the risk of material losses and environmental pollution.

Note

Details identified by the word "Note" contain additional information.

Target group

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



Please note

Children should be supervised. Ensure that children never play with the appliance.



Danger

Incorrect work on the system can lead to life-threatening accidents.

Work on electrical equipment must only be carried out by a qualified electrician.

In case of fire



Danger

Fire creates the risk of burning and explosions.

- Shut down the system.
- Use a tested fire extinguisher, class ABC.

Ancillary components, spare and wearing parts



Please note

Components that are not tested with the system may lead to system damage, or may affect its functions.

Installation or replacement work must only be carried out by qualified personnel.

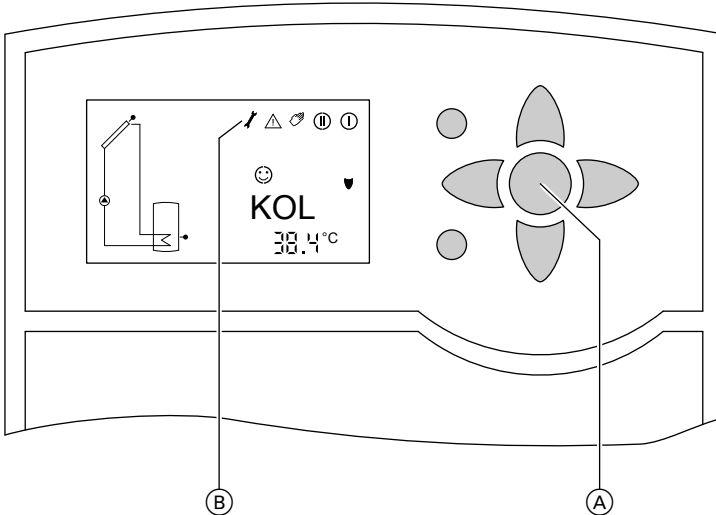
Commissioning

The commissioning and matching up of the control unit to local conditions and the structural characteristics of the building plus the instruction of the user in operating the system must be carried out by your heating contractor.

Operation

Operation

Controls



- Ⓐ OK key; to confirm your selection or adjustment
- Ⓑ Symbols line
- ↵ To terminate a value adjustment in progress
- ▲ / ▼ Cursor keys
To scroll through the menu
- ▶ / ◀ Cursor keys
To adjust values
- ≡ To change from the scanning level to the setting level

To the right, underneath the symbols line on the display, you will see which keys you can operate to make adjustments and scans.

Symbols on the display

These symbols are not always displayed, but appear subject to the system operating condition.

Operation (cont.)

Symbol	Permanent display	Flashing
☺	Fully functioning system	—
ⓘ	Relay 1 ON (solar circuit pump)	—
Ⓜ	Relay 2 ON	—
☀	Set DHW temperature reached	Collector cooling function, return cooling enabled
❄	Frost protection active	Failed to reach minimum collector temperature
⚠	—	Emergency collector shut-down (collector limit temperature reached) or cylinder emergency stop active
⚠ + 🔧	Sensor fault: 🔧	⚠
⚠ + 🖐	Manual mode: 🖐	⚠
SET	Parameters can be changed	Change parameter with ▲ / ▼

Scanning options

Displaying actual values

With keys ▲ / ▼, you can scan the following actual values, subject to the system equipment level:

■

Note

The flashing sensor symbol in the system diagram shows the position of the actual temperature.

KOL – Collector temperature in °C (standard display)

- **TSPU** – DHW temperature in °C
- **S3** – Thermostat temperature in °C, temperature at any additional sensor connected
- **n1%** – Speed of the solar circuit pump
- **n2%** – Operating state of the actuator connected to relay output R2
- **hP1** – Hours run of the appliance connected to relay output 1
- **hP2** – Hours run of the appliance connected to relay output 2

■ **kWh** – Energy in kWh, if a heat meter is active

■ **MWh** – Energy in MWh, if a heat meter is active

Note

Add the values for MWh and kWh together.

Resetting the hours run and the energy volume


Whilst this value is displayed, press the following keys:

1. **OK** "SET" flashes; value 0 is displayed.
2. **OK** to confirm.

The solar thermal system does not start


Cause	Remedy
The solar control unit MCB has responded.	Contact your local heating contractor.
Power failure	After power has been restored following a failure, the solar control unit returns into operation automatically.
The power distribution MCB (main domestic MCB) has responded.	Check the MCB and notify your heating contractor, if necessary.
Collector limit temperature or maximum cylinder temperature has been reached. The solar control unit is in manual mode. The display shows "☞", and "△" flashes.	<p>Wait until the respective temperature has fallen below the relevant limit.</p> <p>Select "Auto":</p> <ol style="list-style-type: none"> 1. Press ≡; until "ANL" is shown. 2. Press ▼, until "HND 1" or "HND 2" is shown. 3. Press OK until "SET" flashes. 4. Press ◀ until "Auto" is shown. 5. Press OK to confirm. 6. Press ≡; the collector temperature will then be shown.

There is no DHW available

Cause	Remedy
The solar control unit is faulty.	Contact your local heating contractor.
Collector temperature too high; safety shutdown through the solar control unit.	Wait until the collector temperature has fallen.
The set cylinder temperature is set too low.	Contact your local heating contractor.
Solar circuit pump faulty.	Contact your local heating contractor.
The DHW cylinder is not reheated: The operating and time program is incorrectly set at the boiler control unit.	<p>Enable DHW heating.</p> <p> Operating instructions of the boiler control unit</p>

What to do if...

The display illumination flashes

Cause	Remedy
<p data-bbox="95 248 538 279">Example, sensor fault</p> <div data-bbox="95 311 476 470"></div> <p data-bbox="95 518 538 606">The sensor symbol in the system diagram flashes quickly. ▲ flashes.</p>	<p data-bbox="538 248 988 311">Check the fault code and notify your local heating contractor.</p> <p data-bbox="538 311 988 375">In the example, the collector temperature sensor has a short circuit.</p> <ul data-bbox="538 375 988 438" style="list-style-type: none">-88.8 Sensor short circuit888.8 Sensor lead break <p data-bbox="616 454 988 550">Note <i>You can check additional sensors with ▲/▼.</i></p>

Applicability

Applicable for the Vitosolic 100, type SD1
Part no. 7418 199

Your contact

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

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