fröling

Operating instructions

Control Panel RBG 3200

Core module version 50.04 - Build 05.20

Translation of original German version of operating instructions for operators.

Read and follow all instructions and safety instructions.
All errors and omissions excepted.

CE

B0640522_en | Edition 09/11/2022

1 General

1.1 About these instructions

Please read and follow the operating instructions, in particular the safety information contained therein. Keep them available next to the boiler.

These operating instructions include important information about operation, electrical connection and troubleshooting. The parameters shown depend on the set boiler type and the system configuration!

The constant further development of our products means that there may be minor differences from the pictures and content. If you discover any errors, please let us know: doku@froeling.com.

1.2 Safety information

⚠ DANGER

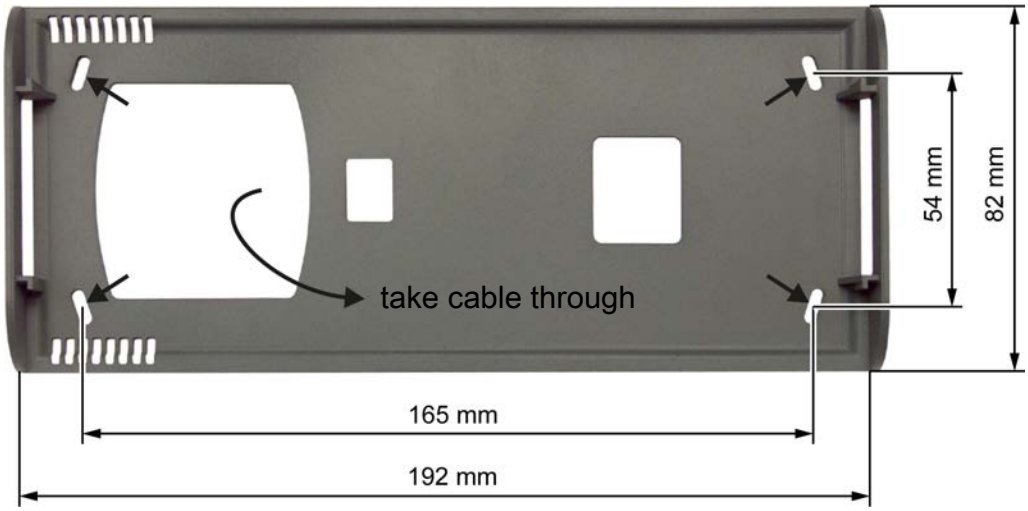
When working on electrical components:

Risk of electrocution!

When work is carried out on electrical components:

- ❒ Always have work carried out by a qualified electrician
- ❒ Observe the applicable standards and regulations
  - ↳ Work must not be carried out on electrical components by unauthorised persons

2 Installing the RBG 3200



❒ Fit the holding frame as shown at the desired position in the room using the anchors and screws provided

↳ The large grommet must be on the left!

↳ It is recommended to install the device above a flush-mounted socket so that there is plenty of space to stow away the bus cable.

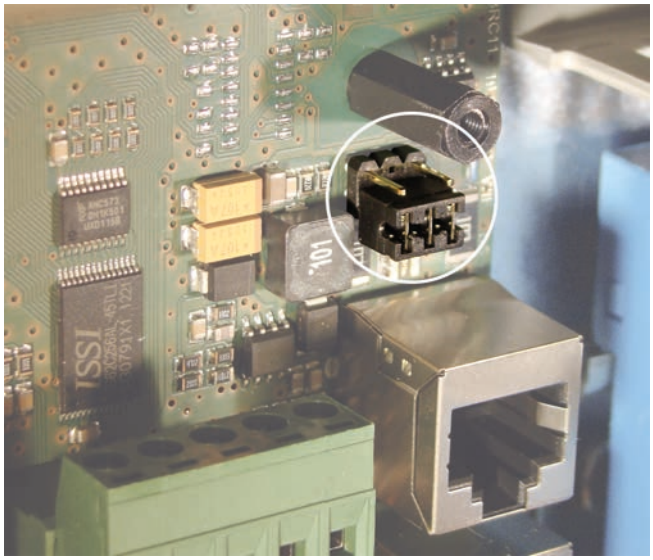
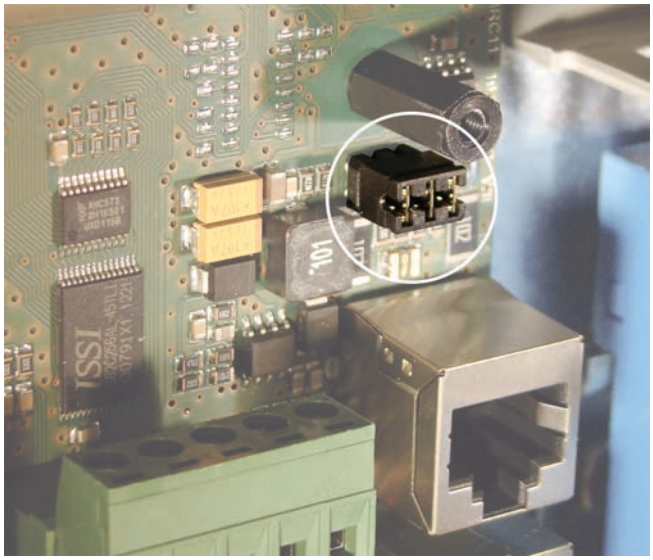
2.1 Connecting the bus cable

For the bus connections between the individual modules, cable type **LIYCY paired 2x2x0.5** should be used. The connection to the 5-pin plugs should be carried out according to the following diagram:

2.2 Setting end jumpers

NOTICE! To ensure smooth running of the bus system, the jumper must be set on the first and last module.

When using a bus repeater, the two galvanically separated sub-networks must be considered separately. The jumpers for each network must be set on the first and last module.

End jumper not set	End jumper set
	

If the contacts at the base of the end jumper are not bridged (image left), it is referred to as “not set". In this case there is no bus termination. If the contacts are closed (image right), the end jumper is set and the bus connection is terminated.

2.3 Setting the module address

You must set the required order with the module addresses for the RBG 3200 (display module). The standard boiler comes with a display module (boiler display) with the address 0 (except S3 Turbo with S-Tronic controller). If you, therefore, install an additional display module, set it to address 1 so that the standard hydraulic system settings do not need to be reconfigured. Set all further RBG 3200s module addresses in ascending order (2 to 7).

Important! Only set the module address when the device is disconnected from the power supply!

2.4 Initial startup

NOTICE

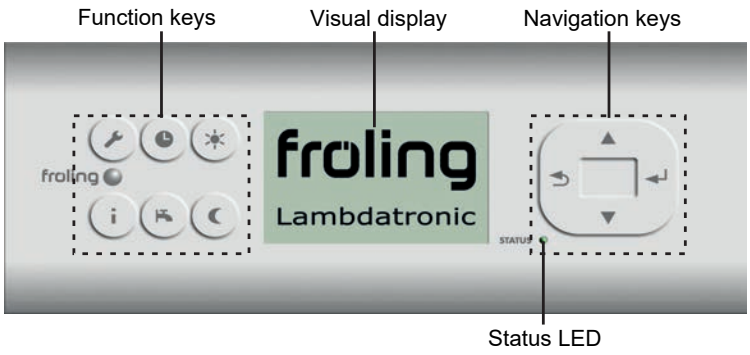
You should have the initial startup carried out by the authorised heating engineer from Froling customer services.

Once you have connected the device to the power supply and switched on the main switch, the start logo will appear and the control will perform a system check.
After the system check the basic display will appear.
The default basic display provides information about the two main parameters, however it can be customised to the user's individual requirements.

➲ "System - Basic display parameters" [▶ 26]

3 Overview of the basic functions

3.1 Control keys and display



3.1.1 Navigation keys

The navigation keys are used to move within the menu and to change parameter values.

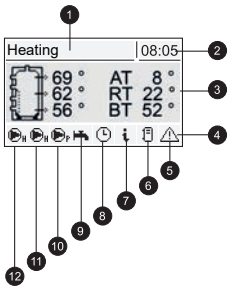
Key	Function for	
▲ UP arrow	navigation: move up a menu level	
	parameter change:	depending on how long the key is pressed: - short: increase value - long: increase value in increments of 10 - long (>10 secs): increase value in increments of 100
▼ DOWN arrow	navigation: move down a menu level	
	parameter change:	depending on how long the key is pressed: - short: reduce value - long: reduce value in increments of 10 - long (>10 secs): reduce value in increments of 100
↵ Enter key	navigation: go to selected menu	
	parameter change:	release the parameter for editing, or save parameter value after changing
↩ Back key	navigation: go back up a menu level	
	parameter change:	depending on how long the key is pressed: - short: do not save parameter - long: back to basic display without saving

3.1.2 Status LED

The status LED shows the operating status of the system:

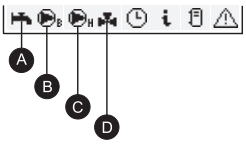
- GREEN flashing (interval: 5 sec OFF, 1 sec ON):
- GREEN constant: **BOILER SWITCHED ON**
- ORANGE flashing: **WARNING**
- RED flashing: **FAULT**

3.1.3 Graphic display



Ref.	Description	
1	Shows operating status or menu name	
2	Shows the current time	
3	Displays the main values in the basic display (adjustable) menu contents, parameters and info texts	
4	Status toolbar	
5	Displayed when a fault is pending. Press the info key to display texts describing the fault and the solution	
6	Shows the storage tank loading status (storage tank is optional)	
7	Indicates that an info text is displayed. Info texts are also identified by a frame	
8	Shows which function is active ➲ "Function keys" [▶ 10]	
9	Shows that the DHW tank loading pump is active	Only shown in the basic display !
10	Shows that the storage tank loading pump is active	
11	Shows that the heating circuit pump of the 2nd heating circuit is active	
12	Shows that the heating circuit pump of the 1st heating circuit is active	

In the service technician user level, the function of the relevant components is also shown in the individual status menus by the corresponding status display:



Ref.	Description	
A	Shows whether the storage tank (or oil boiler) is hot enough for hot water preparation	Only for service technicians in the status menus
B	Shown when the DHW tank or return temperature control pump is active	
C	Shown when the heating circuit or storage tank loading pump is active	
D	Shows the status of the heating circuit mixer	

3.2 Function keys

The function keys of the key control partially have dual functions. Short or long pressing of the keys can access different functions (see below):

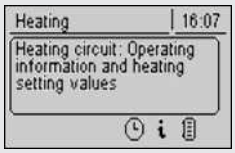
short keystroke …….. < 1 sec
long keystroke …….. > 4 sec

3.2.1 Info key

Keystroke		Function
	short	Shows plain text information about the menu items or fault messages
	long	Choose language: Deutsch, English, Francais, Italiano, Slovenski, Cesky, Polski, Svenska, Espanol, Magyar, Suomi, Dansk, Nederlands, Russian, Serbian

The info key can be pressed at any time and always shows information about the current menu item or the current fault message. Fault messages take highest priority.

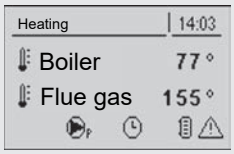
Info key in normal mode:

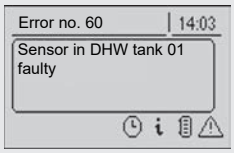


In normal operation (without pending fault messages) the info key can be pressed to display information or an explanation for every menu item or parameter.

The info text is also identified by the frame and the info symbol in the status line.

Info key when there is a pending fault:





If a fault has been acknowledged after arising, but not resolved, this is shown by a warning symbol at the bottom right on the status line.

Pressing the info key calls up the information on the currently pending fault message again.

Procedure for troubleshooting:

➲ "Troubleshooting" [▸ 29]

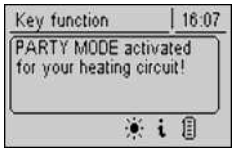
3.2.2 Service program key

Keystroke		Function	
	Short	Chimney sweep	**Only with boiler display!** **NOTICE! See operating instructions for boiler controller!**
	Long	Service mode	**Only with boiler display!** **NOTICE! See operating instructions for boiler controller!**

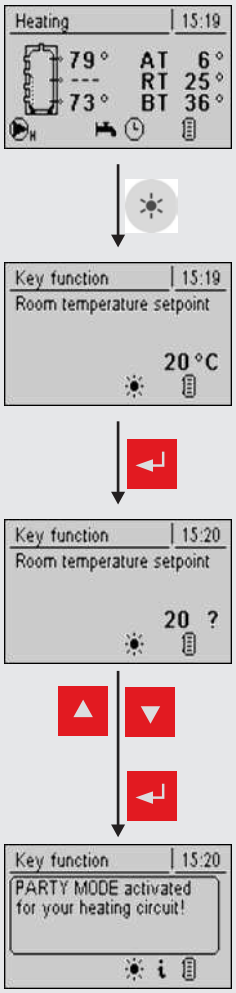
3.2.3 DHW tank program key

Keystroke		Function
	short	Single manual loading of domestic hot water. The function is indicated during DHW tank loading by the tap symbol in the status line. After loading, the mode that was previously set becomes active again.
	long	**Only with boiler display!** **IMPORTANT! See operating instructions for boiler controller!**

3.2.4 Party program key

Keystroke		Function	
	Short		The allocated heating circuit is switched to daytime mode after an optional change of the room temperature setpoint until the end of the next heating phase or until automatic mode is activated.
	Long		The allocated heating circuit and the domestic water heating for the allocated DHW are activated for 6 hours.

Activate party mode

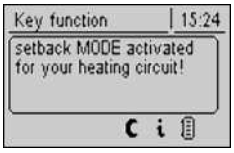
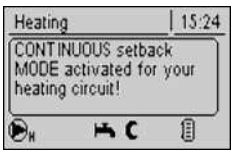


After the Party Mode key is pressed, an entry field to optionally change the “Room temperature setpoint” appears on the display. If no other key is pressed, daytime mode starts until the end of the next heating phase or until the automatic mode is activated for the allocated heating circuit with the preset room temperature.

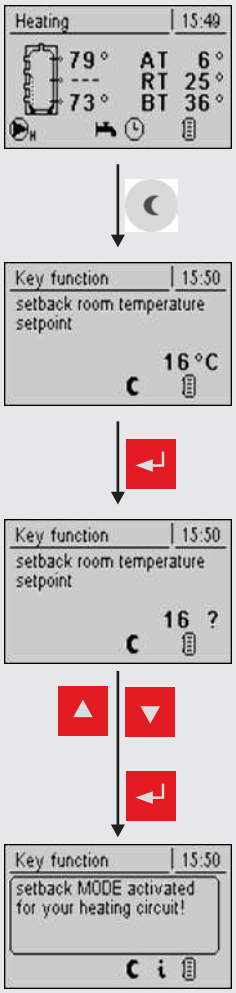
After the Enter key has been pressed, the “Room temperature setpoint” can be adjusted with the UP arrow key and DOWN arrow key.

After confirmation by pressing the Enter key, the illustrated info text is displayed and daytime mode is activated for the allocated heating circuit until the end of the set time or until automatic mode is activated.

3.2.5 Setback program key

Keystroke		Function	
	Short		After an optional change to the setback temperature the heating circuit controller remains in setback mode until the start of the next heating time or until activation of another mode.
	Long		The room temperature is reduced to the preset setback temperature until another mode is activated.

Activate setback mode



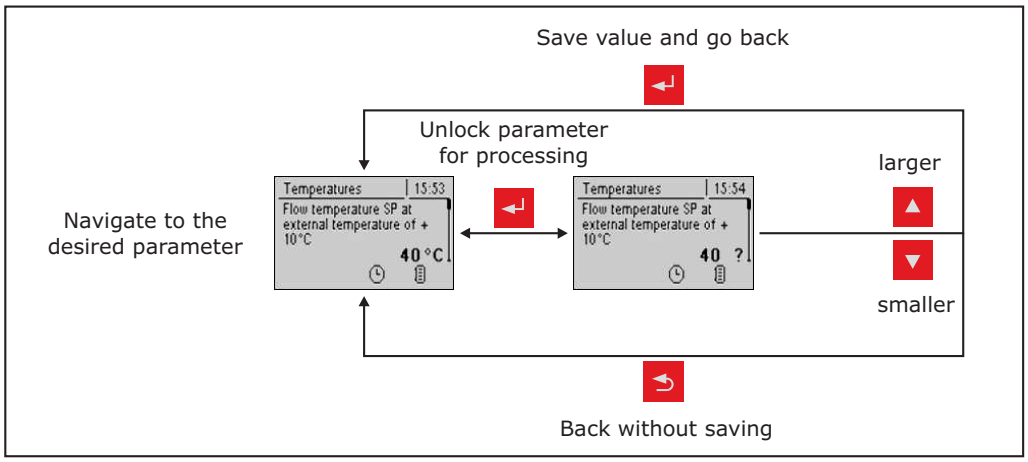
After the Setback Mode key is pressed, an entry field to optionally change the “Setback room temperature setpoint” appears on the display. If no other key is pressed, setback mode starts until the end of the next heating phase or until the automatic mode is activated for the allocated heating circuit with the preset “setback room temperature setpoint”.

After the Enter key has been pressed, the “Setback room temperature setpoint” can be adjusted with the UP arrow key and DOWN arrow key.

After confirmation by pressing the Enter key, the illustrated info text is displayed and setback mode is activated for the allocated heating circuit until the end of the set time or until automatic mode is activated.

4 Operation

4.1 Setting parameters

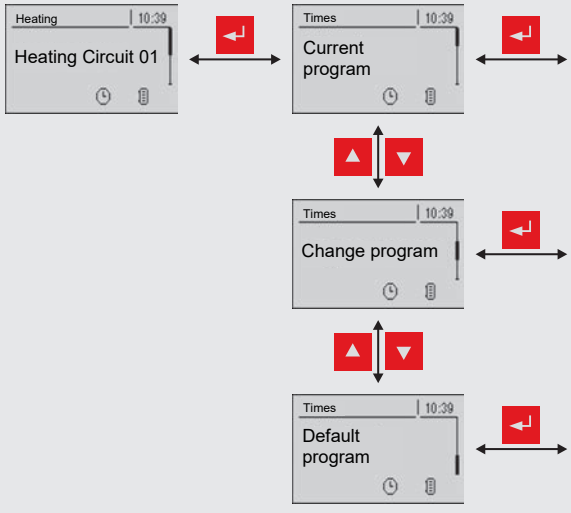


4.2 Setting times

The desired time window for the component can be set in the "Times" submenu in the individual menus of the heating components (heating circuits, DHW tanks ...). The structure of the time menu and the procedure for changing the times are always the same.

Example - Setting times for heating circuit 01:

In the "Heating" menu -> "Times":



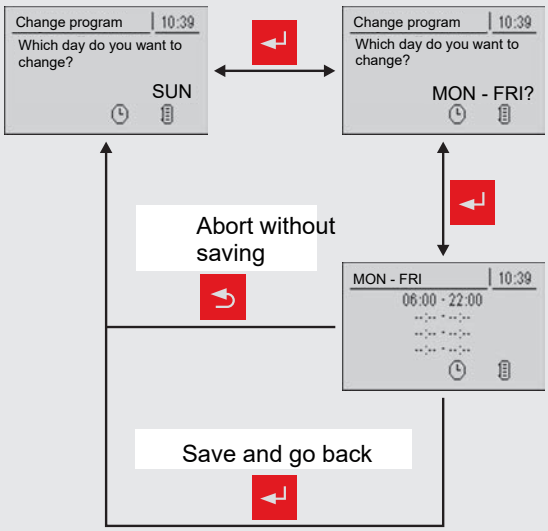
Current settings for the individual weekdays are displayed. Pressing the arrow keys changes to the next/previous weekday.

See example below…

The factory-set times are loaded by confirming again (06:00 – 22:00).

Caution - the customer specific time settings are lost in the process!

… In the "Change program" menu:



After pressing the enter key you can select the day or the time period, for which the heating times are to be set:

- MO, TU, .., SU
- MO - FR
- SA - SU
- SAME ALL DAYS

After pressing the enter key again the time window for the desired day/time period is displayed.

Up to 4 different heating times can be entered sequentially here.

When the enter key is pressed, the cursor jumps to the next position, even if no time has been entered. If the cursor is in the last position, pressing the enter key saves the time window and switches to the previous menu.

4.2.1 Deleting a time window

To delete a time window, the end time of the desired time window must be put to 24:00. If you press the up arrow key repeatedly, the time disappears and is replaced by dashes. Then carry out the same process with the start time. After the enter key has been pressed repeatedly, the changes are adopted and it returns to the previous menu.

5 Parameters overview

5.1 Heating

5.1.1 Heating - Status

Basic display → Heating → Heating circuit 1 → Status

Heating circuit mode	
Display and setting the heating circuit mode:	
	Auto: Automatic: heating phases according to the set heating times
	Extra heating: The heating circuit is regulated to the set room temperature with no time limitation. To cancel this function, activate another mode/function
	Setback: Setback mode; the current or next heating phase is ignored
	Continuous setback mode: Heating circuit remains in setback mode until another mode is activated
	Party: Party mode; the current or next setback phase is ignored
	OFF: Switched off; heating circuit deactivated, only frost protection!

Actual flow temperature
Display of the current flow temperature.

Flow temperature setpoint
Display of the calculated flow temperature setpoint.

Room temperature
Prerequisite: Heating circuit used in conjunction with remote control Display of the current room temperature.

Outside air temperature
Display of the current outside air temperature.

5.1.2 Heating - Temperatures

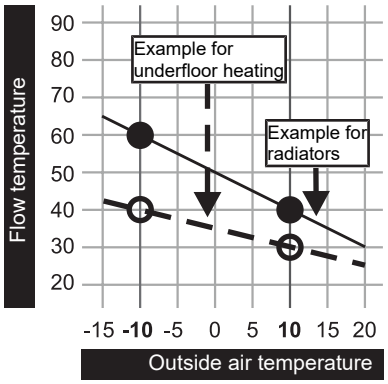
Basic display → Heating → Heating circuit 1 → Temperatures

Desired room temperature during heating mode
Prerequisite: Heating circuit used in conjunction with remote control Room temperature which is regulated during the set heating times.

Desired room temperature during setback mode
Prerequisite: Heating circuit used in conjunction with remote control Room temperature which is regulated outside of the set heating times.

Flow temperature SP at outside air temperature of +10°C
First setting point for definition of heating curve.

Flow temperature SP at outside air temperature of -10°C
Second setting point for definition of heating curve.



Reduction of flow temperature in setback mode
The flow temperature is reduced by this value during setback mode.

External temperature, at which heating circuit pump switches off in heating mode
If the outside air temperature exceeds this value during heating, the heating circuit pumps and mixing valve are deactivated.

External temperature, at which heating circuit pump switches off in setback mode
If the outside air temperature falls below this value in setback mode, the heating circuit pumps and mixing valve are activated.

Frost protection temperature
If the room temperature or the flow temperature is lower than the set value, the heating circuit pump will be switched on and the heating circuit mixer keeps to the maximum heating circuit flow temperature that is set.

From which temperature at storage tank top should the overheating protection be activated?
If the temperature at top storage tank exceeds the set value, the heating circuit is activated regardless of mode (boiler, remote control) and set heating times. The flow temperature is controlled to the value set in the parameter “`Flow temperature SP at outside air temperature of -10°C`”. The function will remain active until the value falls below 2°C. **Recommendation:** The overheating protection should be assigned to a high temperature heating circuit (e.g. radiators).

Deviation of room temperature sensor
If a deviation of the room temperature is determined from the evaluated value to the displayed value, the evaluation of the room temperature sensor can be adjusted with this parameter. The temperature measured by the sensor is increased (positive value) or reduced (negative value) by the pre-set value.

5.1.3 Heating - Times

Basic display ➡ Heating ➡ Heating circuit 1 ➡ Times

➲ "Setting times" [▶ 14]

5.2 Water

5.2.1 Water - Status

Basic display ➡ Water ➡ State

DHW tank top temperature
Current temperature of the DHW tank. If the time window for DHW tank loading is reached and the temperature falls below the value set under parameter “`Reload if DHW tank temperature is below`“, the DHW tank will be loaded. The DHW tank is loaded either until the time window has elapsed or the temperature set under “`Desired DHW tank temperature`“ has been reached.

DHW tank bottom temperature
Prerequisite: Solar panel system is regulated by Froling! Current temperature in the area of the reference sensor of the solar panel system.

DHW tank pump control
Specifies the speed of the DHW tank pump as a percentage of maximum speed.

5.2.2 Water - Temperatures

Basic display → Water → Temperatures

Set DHW temperature
When this DHW temperature is reached, DHW tank loading is stopped.

Reload if DHW tank temperature is below
If the DHW tank temperature falls below the value set here, the time window is active and the loading source (boiler or buffer tank) indicates the set loading increase, and the DHW tank loading is started.

5.2.3 Water - Times

Basic display → Water → Times

➲ "Setting times" [▶ 14]

5.3 Solar

5.3.1 Solar - Status

Basic display → Solar → State

Collector temperature
Display of the current temperature at the solar collector.

Top storage tank solar sensor
Display of the current temperature at the solar reference sensor in the top part of the buffer tank.

Solar temperature buffer tank bottom
Display of the current temperature at the solar reference sensor in the lower part of the buffer tank.

Actual power from solar heat meter [kW]
Display of the current output which is generated by the solar collector. The calculation of the output is only performed either when a per litre output of the collector pump has been set or an external volume pulse transmitter is used. In order to perform the calculation more precisely, the use of a collector return sensor is recommended.

Flow through [l/h]

Prerequisite: External volume pulse transmitter installed

Display of the water quantity currently being pumped through the solar collector.

Todays yield [kWh]

Display of the heat quantity that has been supplied by the solar panel system today.

Daily yield 1 ... 6 days ago [kWh]

Shows the historical progression of the solar panel system. The yields of the last 6 days are available.

Total yield [kWh]

Display of the heat quantity which has been supplied by the solar panel system since activation of the heat meter.

DHW tank bottom temperature

Current temperature in the area of the reference sensor of the solar panel system.

Heat exchanger sec. return temperature (line to buffer tank)

Prerequisite: Hydraulic system 12 or 13

Current temperature at heat exchanger flow on the secondary side.

Collector pump runtime

Display of the total runtime of the collector pump.

Collector pump control

Display of the current speed of the collector pump as a percentage of maximum speed.

Pump between heat exchanger and buffer tank

Prerequisite: Hydraulic system 12 or 13

Display of the current speed of the pump between heat exchanger and buffer tank.

Pump between heat exchanger and DHW tank

Prerequisite: Hydraulic system 12

Display of the current speed of the pump between heat exchanger and DHW tank.

Diverter valve for top/bottom coils

Prerequisite: Hydraulic system 12 or 13

Current control of the isolating valve on the solar side.

- **0%** … bottom buffer tank
- **100%** … top buffer tank

Outfeed: 80°C / RL: 50°C
P: 0.0 kW / DFL: 0
Today: 0 kWh
Total: 0 kWh

- **OUTFEED**: Current collector flow temperature
- **Return**:Current collector return feed temperature
- **P**:Current output which is generated by the solar collector
- **DFL**:Current flow rate of solar collector
- **Today:** Heat quantity that has been produced by the solar panel system today
- **Total:** Heat quantity that has been produced since activation of the solar panel system

5.3.2 Solar - Temperatures

Basic display → Solar → Temperatures

Boiler target temperature during solar charging
Up to this temperature the DHW tank is heated by the solar system. If the solar panel system is equipped with an isolating valve for switching between DHW tank and buffer solar coil, then this parameter is responsible for switching between both of these solar coils.

Temp differential to start collector pump
The collector pump activates when the collector temperature exceeds the reference temperature in the DHW tank or buffer tank by this value.

Temp difference to stop collector pump
The collector pump switches off when the difference between the collector temperature and reference temperature in the DHW tank or buffer tank is lower than this value.

Maximum buffer tank bottom temperature during solar charging
Prerequisite: Hydraulic system 12 or 13 If the sensor for the solar reference temperature in the buffer tank exceeds the specified value, the collector pump is switched off.

Collector/pump protection from a collector temp.
If the measured value of the solar collector sensor exceeds the set value, the solar collector must cool down by 20°C within 15 minutes, otherwise the solar collector pump stops in order to protect the pump.

5.4 Buffer tank

5.4.1 Buffer tank - Status

Basic display → Buffer tank → Buffer tank 01 → Status

Buffer tank top temperature
Display of the current temperature in the top part of the buffer tank.

Storage tank temperature sensor 2 … 7
Prerequisite: Multi-sensor management with 3 – 8 sensors Displays the current temperature at the respective sensor position at the storage tank. All of the configured sensors are used to calculate the storage tank charge status.

Buffer tank bottom temperature
Display of the current temperature in the lower part of the buffer tank.

Buffer tank pump control
Display of the current speed of the buffer loading pump.

Storage tank charge
Display of the current storage tank charge.

5.4.2 Buffer tank - Temperatures

Basic display → Buffer tank → Buffer tank 01 → Temperatures

Heating circuit release from following buffer tank temperature
Temperature value which must be reached to release the heating circuit pumps in the top part of the buffer tank. **NOTICE! This parameter applies for all available heating circuits!**

5.5 Boiler 2

5.5.1 Boiler 2 - Status

Basic display → Boiler 2 → State

Temperature of secondary boiler
Display of the current boiler temperature of the secondary boiler.

Burner relay status
Shows the current status of the burner relay: ▪ **0:** Secondary boiler not active ▪ **1:** Secondary boiler active

Standby boiler pump
Prerequisite: "`Switch valve installed`" parameter set to "NO" Display of the current pump control for the standby boiler.

Standby boiler switch valve
Prerequisite: "`Switch valve installed`" parameter set to "YES" Display of the current switch valve control of the standby boiler.

Manual start of secondary boiler (only when ID fan is switched off)
▪ **OFF:** Secondary boiler is controlled according to the program that is set ▪ **ON:** Secondary boiler is activated immediately **NOTICE! Burner blockage noted.**

5.5.2 Boiler 2 - Temperatures

Basic display → Boiler 2 → Temperatures

Secondary boiler start delay
If there is a requirement from the heating circuit or DHW tank and the buffer tank or boiler has insufficient temperature, the secondary boiler starts after the specified delay time set here.

Disable startup delay in case of fault?
Indicates whether the startup delay is ignored in the event of a boiler fault and whether the standby boiler is activated immediately on request.

Deactivate startup delay when boiler is switched off?
Indicates whether the startup delay is ignored when the boiler is switched off and whether the standby boiler is activated immediately on request.

Start standby boiler only after storage tank top
Standby boiler enabled after temperature decreases below minimum temperature on top storage tank. No consumers are taken into consideration.

Secondary boiler minimum runtime
If the secondary boiler is started, it will run for at least the length of time set here.

No heat pump operation when outside air temperature less than
Prerequisite: Heat pump as standby boiler The heat pump stops working below the set temperature. This avoids operation with high energy consumption when the temperature outside is cold.

Maximum outfeed temperature for heat pump operation
Prerequisite: Heat pump as standby boiler If a flow temperature higher than the set value is required, the main boiler takes over.

Main boiler minimum runtime
Prerequisite: Heat pump as standby boiler If the main boiler is in operation, it only shuts down after the minimum runtime of the main boiler if the criteria for heat pump operation are fulfilled. This should prevent excessively short runtimes of the main boiler.

Temperature difference between secondary boiler and buffer tank
Temperature difference between secondary boiler and upper temperature in layered tank to activate the loading pump of the secondary boiler.

5.6 Difference regulator

5.6.1 Difference regulator - Status

Heat source temperature
Display of the current heat source temperature of the differential controller (e.g. tiled stove with water pocket, …).

Heat sink sensor
Display of the current temperature of the heat sink for the differential controller (e.g. layered tank, etc.).

Pump speed
Specifies the current speed of the differential controller pump.

5.7 Circulation pump

5.7.1 Circulation pump - Status

Basic display → Circ. pump → State

Return temperature in circulation line
Display of the current temperature at the return feed sensor of the circulation line. **NOTICE! If the parameter “Return sensor present” is set to “NO”, 0°C is permanently displayed.**

Flow switch on the domestic hot water line
▪ **0:** Flow switch detects no flow rate. ▪ **1:** Flow switch detects flow rate.

Speed of the circulation pump
Specifies the current speed of the circulation pump.

5.7.2 Circulation pump - Temperatures

Basic display → Circ. pump → Temperatures

Switch off the pump at what return temperature in the circulation line
If the set temperature at the return circulation line is reached, the circulation pump will be deactivated. **NOTICE! Parameter only relevant when using a return feed sensor in the circulation line!**

5.7.3 Circulation pump - Times

Basic display → Circ. pump → Times

➲ "Setting times" [▶ 14]

5.8 System

5.8.1 System - Current values

Basic display → System → Current values

Display of the current value for the relevant parameter. The parameters displayed depend on the boiler configuration!

5.8.2 System - Error

Error - Error display

Basic display → System → Error → Error display

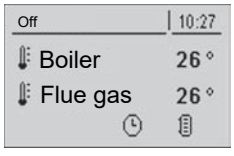
Display of the current fault messages. In addition, you can also invoke time information here, such as when the fault occurred, when the fault was acknowledged and when the fault was cleared.

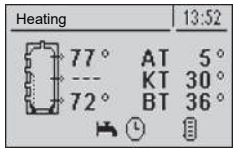
5.8.3 System - Basic display parameters

Basic display → System → Basic display parameters

You can individually adjust how the two items are shown in the basic display, and for each item you can choose from several parameters: e.g. boiler, flue gas, external, room, DHW tank, storage tank top, storage tank bottom, storage tank graph, etc.

Position 1	**Boiler**	**Selected**
Position 2	**Flue gas**	**Selected**





If the “storage tank graph” is selected, the temperatures of the top, middle (if available) and bottom storage tanks will be displayed next to the graph. In addition, further, fixed predefined values will be displayed:

OT ... Outside temperature
BT ... Boiler temperature
RT ... Room temperature (on room console BT is replaced by RT)
DT ... DHW tank temperature (if available)

5.8.4 System - Language

Basic display → System → Language

Language - Sprache - Langue - Lingua - Jezik
▪ Deutsch, English, Francais, Italiano, Slovenski, Cesky, Polski, Svenska, Espanol, Magyar, Suomi, Dansk, Nederlands, Русский, Serbian

5.8.5 System - Current Date

Basic display → System → Current Date

Current Date
Display and setting of current date.

5.8.6 System - Current Time

Basic display → System → Current Time

Current Time
Display and setting the current time.

5.8.7 System - Current User Level

Basic display → System → Current user level

Child lock (Code “0”)
At “Child lock” level, only the “Status” menu appears. It is not possible to change parameters at this level.

Customer (Code “1”)
Standard user level for normal operation of the display. All customer-specific parameters are displayed and can be changed.

Installer / Service
Releases parameters to adjust the controller to the system components (if configured).

6 Troubleshooting

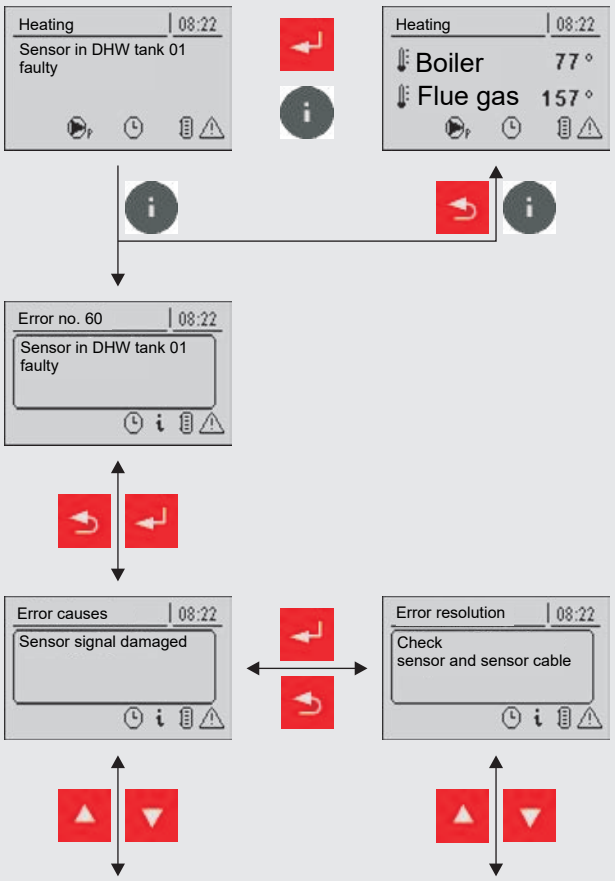
The term "fault" is a collective term for warnings, errors and alarms. The boiler reacts differently to the three types of message:

WARNING	In case of warnings the status LED flashes orange and the boiler initially continues controlled operation.
ERROR	In case of errors, the status LED flashes red, the boiler follows shutdown procedure and remains in operating status " ", until the error is resolved. After troubleshooting, the boiler switches back to the operating status "".
ALARM	An alarm triggers a system emergency stop. The status LED flashes red, the boiler switches off immediately and the heating circuit controller and pumps remain active.

6.1 Procedure for fault messages

When a fault occurs:

- The status LED flashes with a red or orange light
- The display shows the current fault message and the warning symbol in the status line



After pressing the enter key the fault is acknowledged.
The warning symbol in the status line shows that the fault is still pending.

Pressing the info key displays the fault as info text with the related fault number.
The warning symbol only switches off when the fault has been resolved!

After pressing the enter key, an info text on the cause of the fault is displayed. Pressing the enter key again displays instructions for resolving the fault.

If a fault has various causes or the cause can be resolved in various ways, you can scroll through with the navigation keys.

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