



**BOSCH**

Operating instructions for the end customer

# Remote controller RT 800



0010037738-003



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**1 Explanation of symbols and safety instructions**
**1.1 Explanation of symbols**
**Warnings**

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following signal words are defined and can be used in this document:


**DANGER**

**DANGER** indicates that severe or life-threatening personal injury will occur.


**WARNING**

**WARNING** indicates that severe to life-threatening personal injury may occur.


**CAUTION**

**CAUTION** indicates that minor to medium personal injury may occur.

**NOTICE**

**NOTICE** indicates that material damage may occur.

**Important information**


The info symbol indicates important information where there is no risk to people or property.

## 1.2 General safety instructions

### ⚠ Notices for the target group

These operating instructions are intended for the operator of the product.

All instructions must be observed. Non-observance can result in serious personal injury with potentially fatal consequences as well as damage to property and the environment.

- ▶ Read and retain the operating instructions (heating controller, etc.) prior to operation.
- ▶ Observe the safety instructions and warnings.
- ▶ Carry out cleaning and maintenance at least once a year at the specified intervals. Also check when you do so that the entire system is in proper working order.
- ▶ Immediately remedy any defects identified.

### ⚠ Intended use

- ▶ Use the product only to control the heating and ventilation units.

Any other use is considered inappropriate. We take no responsibility for damage caused through incorrect use.

### ⚠ Risk of scalding at the DHW draw-off points

- ▶ If DHW temperatures above 60 °C are set or if thermal disinfection is activated, a mixer must be installed. If in doubt, ask your installer.

### ⚠ Damage caused by frost

The system can freeze if it is switched off:

- ▶ Observe the notices regarding frost protection.
- ▶ Due to the additional functions, e.g. DHW heating or pump anti-seizure protection, the system should always be left on.
- ▶ Have faults rectified immediately.

## 2 Product information

### 2.1 Product description

The RT 800 is a remote control for the control of heating systems using control panel UI 800.



The complete usage of all options of the heating system is only possible via the complete combustion UI 800.

### 2.2 Overview, control elements and displays

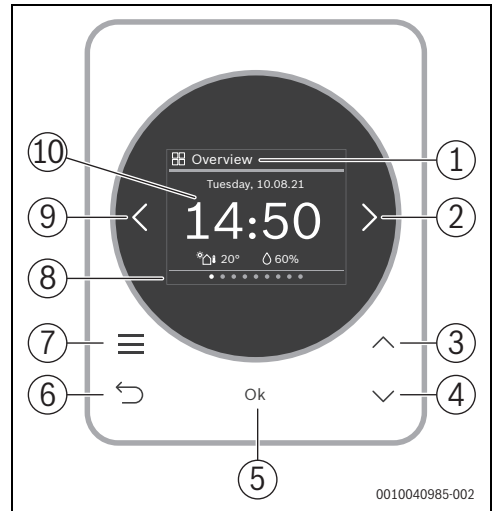


Fig. 1 RT 800

#### Key to Fig. 1:

- [1] Menu name
- [2] Next menu
- [3] Increase value / navigate in settings
- [4] Reduce value / navigate in settings
- [5] Confirm value / select settings
- [6] Exit menu-specific settings / back
- [7] Display menu-specific settings
- [8] Menu item display
- [9] Previous menu
- [10] Main display

The functions of the RT 800 are summarised by topic in the menu. For example, the settings for DHW heating can be called up with the key in the **Hot Water** menu.



Depending on the system configuration, all menus are not displayed.

There is no conventional service menu. All parameters are defined in the menu-specific settings. Depending on the configuration of the UI 800 single-family house or multi-family house, the entire system or only the respective heating circuit can be controlled.

- With the < and > keys, change between the menus: < **Overview** >< **Heating** >< **2nd heating circuit** >< **Hot Water** >< ... >< **Holiday** >< **Away** >
- With the ≡ key, call up the menu-specific settings of the current menu selected.
- Using the ∨ and ∧ Keys, change and select settings.
- With **OK** values, confirm selection and settings.
- Exit settings with the ↵ key.

Flashing values can be changed using the ∨ and ∧ keys.

#### Idle state

After 5 minutes without being operated, the RT 800 switches the display to idle state. The brightness is reduced and a screensaver is activated. This screensaver shows the symbol of the last menu active and its main display.

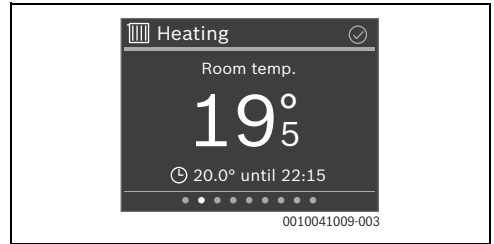
- ▶ To deactivate idle state: press any key.

## 3 Operation and setting of the most important functions

An overview of the structure of the menus and the position of the individual menu items can be found at the end of this document. You can find a detailed description of operation in chapter 3.1.3.

- ▶ If necessary, navigate to the desired menu using the < and > keys.

### 3.1 Menu “Heating”



#### 3.1.1 Changing the room temperature

- ▶ Using the ∨ and ∧ keys, set the desired room temperature and confirm with **OK**.

#### 3.1.2 Change heating mode

Heating mode can be changed between automatic mode and manual operation, or switched off completely.

- ▶ Press the **OK** key.

-or-

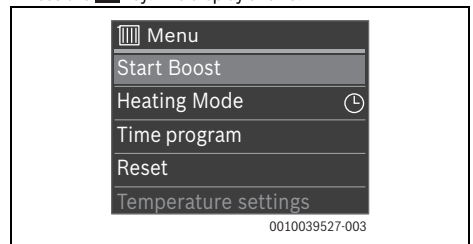
- ▶ Press the ≡ key, navigate with the ∨ key **Operation Mode** and select with the **OK** key.
- ▶ Mark the desired heating mode with the ∨ and ∧ keys and select with **OK**.

#### 3.1.3 Set the time program

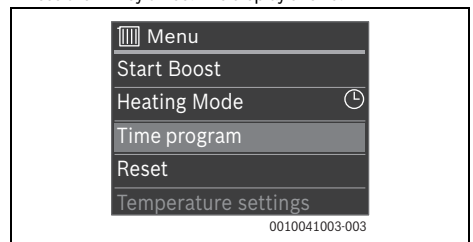


This description applies analogously also for the time program in other menus.

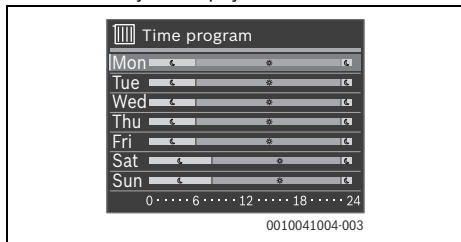
- ▶ Press the ≡ key. The display shows:



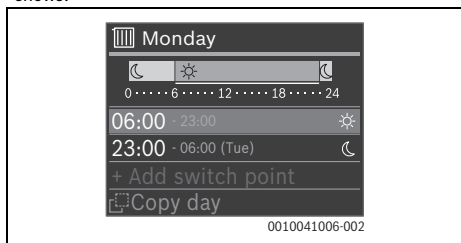
- ▶ Press the ∨ key twice. The display shows:



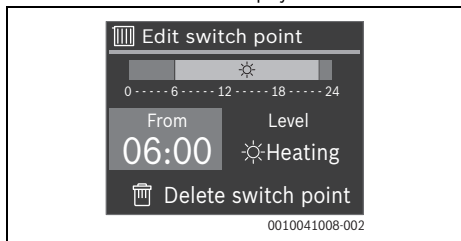
- ▶ Press the **OK** key. The display shows:



- ▶ Using the **∇** and **∧** keys, navigate to the desired day of the week and select this with **OK** (here, **Monday**). The display shows:



- ▶ Mark the desired switching time with the **∇** and **∧** keys and select this with **OK**. The display shows:



Depending on the system configuration, **Temperature** is displayed instead of **Level**.

To change the switching time:

- ▶ Press the **OK** key.  
The switching time flashes.
- ▶ Using the **∇** and **∧** keys, set the desired switching time and confirm with **OK**.

To change **Level/Temperature**:

- ▶ If necessary, use the **<** and **>** keys to navigate to **Level / Temperature** and press the **OK** key.  
**Level / Temperature** flashes.
- ▶ Using the **∇** and **∧** keys, set the desired **Level / Temperature** and confirm with **OK**.

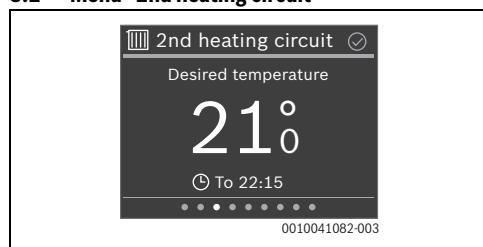
To delete the switching time.

- ▶ Use **∇** key to navigate to **Delete switch point**.
- ▶ Delete the switching point with **OK** and confirm the safety query with **OK**.

### 3.1.4 Change the temperatures for Heating and Setback

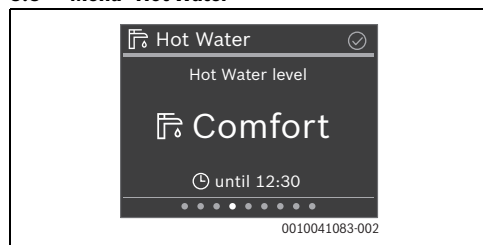
- ▶ Press the **≡** key.
- ▶ Use the **∇** key to navigate to **Temperature settings** and select with **OK**.
- ▶ Mark the desired temperature level with the **∇** and **∧** keys and select with **OK**.
- ▶ Using the **∇** and **∧** keys, set the desired temperature and confirm with **OK**.

## 3.2 Menu “2nd heating circuit”



If a second heating circuit is allocated, in the **2nd heating circuit** menu, you can make the necessary settings analogously to the **Heating** menu (→ Chapter 3.1).

## 3.3 Menu “Hot Water”



### 3.3.1 Temporarily increase the DHW temperature





- ▶ Press the **≡** key.
- ▶ Select **Start Extra Hot Water** with **OK**.
- ▶ Using the **∇** and **∧** keys, set the elapsed time and confirm with **OK**.
- ▶ Using the **∇** and **∧** keys, set the level and confirm with **OK**.

### 3.3.2 Set operation mode for DHW heating

The operating mode can be changed between economical mode and comfort mode, or switched off completely.



- ▶ Press the **OK** key.

-or-



- ▶ Press the  key, navigate with the  key **Operation Mode** and select with the **OK** key.
- ▶ Mark the desired operating mode for DHW heating with the  and  keys and select with **OK**.

### 3.3.3 Set the time program

The setting of a time program for heating is described in detail in chapter 3.1.3. The setting for **Hot Water** functions in the same manner.

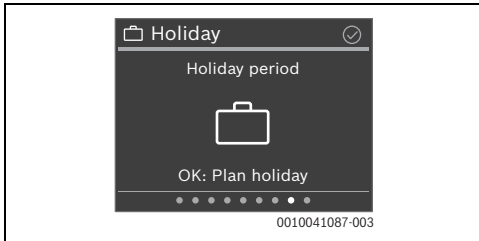
- ▶ Press the  key.
- ▶ Use the  key to navigate to **Time program** and select with **OK**.
- ▶ Set the time program.

### 3.3.4 Display current DHW temperature

- ▶ Press the  key.
- ▶ Use the  key to navigate to **Information** and select with **OK**.  
The current DHW temperature is shown.

## 3.4 Menu “Holiday”


In the **Holiday** menu, before a planned longer absence, the operation of the heating system can be set in detail.



### 3.4.1 Enter Holiday period



Maximum 8 holiday periods can be defined.







- ▶ Press the **OK** key or  key.
- ▶ If one holiday period has been created: select **New period** and confirm with **OK**.
- ▶ Enter the date and time the holiday starts and confirm each with **OK**.

- ▶ Enter the date and time the holiday ends and confirm each with **OK**.

The holiday function starts automatically at the time specified.

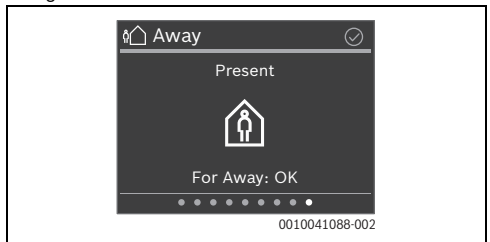
At the end of the set holiday period, the **Holiday** function ends automatically and the heating system returns to normal mode.

### 3.4.2 Set details for the holiday function

- ▶ Press the  key.
- ▶ Use the  key to navigate to **Advanced settings** and select with **OK**.
- ▶ Navigate to the desired setting with the  and  keys and select with **OK**.
- ▶ Select the setting with the  and  keys, select or deselect with **OK** and confirm with **OK**.

## 3.5 Menu “Away”

In the **Away** menu, for a spontaneous longer absence, you can easily and quickly switch the heating system to an energy-saving mode.



- ▶ Before leaving the flat/house: press the **Ok** key and if necessary, confirm with **OK**.  
The display shows **Away**.
- ▶ After returning to the flat/house: press the **OK** key.  
The display shows **Present** and the heating system returns to normal mode.



### 3.6 Menu “Overview”



#### 3.6.1 Adjust time

- ▶ Using the **∨** and **∧** keys, set the hour and confirm with **OK** -or-
- ▶ Use the **>** key to change to set the minutes.
- ▶ Using the **∨** and **∧** keys, set the minutes and confirm with **OK**.

#### 3.6.2 Keylock

- ▶ Press the **≡** key.
- ▶ Use the **∨** key to navigate to **Keylock** and select with **OK**.
- ▶ Set using the **∨** and **∧** **Activate** Keys and confirm with **OK**.  
The keylock is active after 30 seconds if no actions are taken and is indicated with the  symbol in the display.
- ▶ To deactivate the keylock: press the **∨** and **∧** keys simultaneously for 3 seconds.  
The keylock is activated again automatically if no actions are taken after approx. 30 seconds.
- ▶ To disable the keylock permanently: during the 30 seconds, set using the **∨** and **∧** **Deactivate** Keys and confirm with **OK**.  
The  symbol is not longer displayed.

## 4 Menus

- ▶ If necessary, navigate to the desired menu using the **<** and **>** keys.  
Depending on the system configuration, all menus are not shown.



Chapter 3.1.3 shows a detailed example for operation.

### 4.1 Menu “Overview”

Menu item	Description
<b>Information</b>	If necessary, indicates faults. Different values for operating the heat pump can be called up under HP Info.
<b>Display settings</b>	If the indication in the display is difficult to see due to the lighting conditions, adapt the brightness of the display (10 % ... 100 % for operation, 5 % ... 25 % for idle state).
<b>Language</b>	You can change the language of the menus and menu items.
<b>Date &amp; time</b>	Various settings for the date and time.
<b>Temp. sensor calibration</b>	If the room temperature displayed is incorrect, correct deviations by up to $\pm 3$ K (°C).
<b>Keylock</b>	Permanently activate or deactivate the keylock (→ Chapter 3.6.2).
<b>Product information</b>	Indicates the product name and software version.
<b>Factory reset</b>	<b>Only for an expert!</b> All remote control settings are reset. Then the remote control must be connected with the heating system and configured again.

Table 1

### 4.2 Menu “Heating”

Menu item	Description
<b>Start Boost (Stop Boost)</b>	Starts (or ends) the time-limited increase of the room temperature. The duration can be set to 1 ... 8 hours.
<b>Operation Mode</b>	There are 3 different operating modes for the heating mode: <ul style="list-style-type: none"> <li>• <b>Off</b></li> <li>• <b>Auto</b> (Heating controlled by time program)</li> <li>• <b>Manual</b> (Heating with constant temperature)</li> </ul>
<b>Cooling mode</b>	There are 2 different operating modes for the cooling mode: <ul style="list-style-type: none"> <li>• <b>Off</b></li> <li>• <b>Manual</b> (Cooling with constant temperature)</li> </ul>

Menu item	Description
<b>Time program</b>	Depending on the heating system, 2 – 6 switching times can be set for each day. The minimum duration of a heating phase is 15 minutes.  The following are set in the factory settings: <ul style="list-style-type: none"> <li>• Mon-Fri: <ul style="list-style-type: none"> <li>– from 06:00: heating</li> <li>– from 23:00: lower</li> </ul> </li> <li>• Saturday and Sunday: <ul style="list-style-type: none"> <li>– from 08:00: heating</li> <li>– from 23:00: lower</li> </ul> </li> </ul>
<b>Reset</b>	Restores all switching times to the factory settings.
<b>Hot water settings</b>	Defines the temperatures for heating and lowering.
<b>Season switch</b>	There are 3 different settings for the summer/winter changeover: <ul style="list-style-type: none"> <li>• <b>Auto</b>: the heating or if necessary, the cooling mode is activated depending on the outdoor temperature.</li> <li>• <b>Heating</b>: heating mode is always active. However, heating only takes place if the flat is too cold.</li> <li>• <b>Cooling</b>: cooling mode is always active. However, cooling only takes place if the flat is too hot.</li> </ul>
<b>Heating off from</b>	Defines the outdoor temperature where heating no longer takes place.
<b>Cooling on from</b>	Defines the outdoor temperature where cooling takes place.
<b>Heating circuit</b>	Indicates the heating circuit that is allocated to this menu.

Table 2

### 4.3 Menu “2nd heating circuit”

If a second heating circuit is allocated, in the **2nd heating circuit** menu, you can make the necessary settings analogously to the **Heating** menu (→ Chapter 4.2).

### 4.4 Menu “Hot Water”

Menu item	Description
<b>Start Extra Hot Water (Stop Extra Hot Water)</b>	Starts (or ends) the time-limited increase of the DHW temperature. The duration can be set to 1 ... 8 hours. The desired DHW temperature can be entered on gas heat sources, with heat pumps the temperature increase is set to 1 K.

Menu item	Description
<b>Operation Mode</b>	Depending on the system configuration, various operating modes can be set. <ul style="list-style-type: none"> <li>• <b>Off</b></li> <li>• <b>Manual - Eco+, Manual - Eco, Manual - Comfort</b></li> <li>• <b>Auto</b> (DHW heating as per time program)</li> </ul>
<b>Time program</b>	Up to 6 switching times can be set for each day. The minimum duration of a phase is 15 minutes.  The following are set in the factory settings: <ul style="list-style-type: none"> <li>• Mon-Fri: <ul style="list-style-type: none"> <li>– from 05:00: Comfort</li> <li>– from 23:00: Off/Eco</li> </ul> </li> <li>• Saturday and Sunday: <ul style="list-style-type: none"> <li>– from 07:00: Comfort</li> <li>– from 23:00: Off/Eco</li> </ul> </li> </ul>
<b>Red.DHW temp.w. alarm</b>	For heat pumps: <b>Yes</b> : in event of a fault (alarm) on the heat pump, the DHW cylinder cools down and is not heated with the booster heater. This allows the fault to be noticed in summer mode. <b>No</b> : in event of a fault (alarm) on the heat pump, the DHW cylinder heats with the booster heater. This leads to a significantly higher power consumption.  We always recommend setting <b>Yes</b> . In event of a fault, <b>No</b> can be set temporarily until the fault is rectified.
<b>Status therm. disinfect.</b>	Indicates the current status of the thermal disinfection.
<b>Information</b>	Indicates the current DHW temperature.

Table 3

### 4.5 Menu “Pool”

Menu item	Description
<b>Operation Mode</b>	2 different operating modes can be set: <ul style="list-style-type: none"> <li>• <b>Off</b></li> <li>• <b>On</b></li> </ul>
<b>Allow aux. heat. pool</b>	Determination if the electric booster heater can be used for heating the swimming pool.

Table 4



## 4.6 Menu “Solar”

Menu item	Description
<b>Solar status</b>	Indicates the solar flow temperature and the status of the solar pumps.
<b>Solar yield overview</b>	Indicates the solar yield (this week/last week/total).
<b>Solar sensor overview</b>	Indicates the measurement values of the solar sensor installed.

Table 5

## 4.7 Menu “Holiday”

In this menu, before a planned longer absence, the operation of the heating system can be set in detail.

Menu item	Description
<b>From</b>	Start of holiday
<b>To</b>	End of holiday
<b>Advanced settings</b>	<ul style="list-style-type: none"> <li>• <b>Apply to:</b> the various elements of the heating system can be included separately.</li> <li>• <b>Heating Mode:</b> heating mode applicable during the holiday</li> <li>• <b>Desired room temp.</b></li> <li>• <b>Hot Water:</b> DHW mode applicable during the holiday</li> <li>• <b>Ventilation:</b> ventilation mode applicable during the holiday</li> </ul>
<b>Save</b>	A holiday period can be saved. This allows several holiday periods to be defined in advance.
<b>Delete</b>	Deletes the holiday period selected.

Table 6

## 4.8 Menu “Away”

Menu item	Description
Away	For a spontaneous longer absence, the heating system operates in a continuous operation with reduced energy consumption.
Present	The heating system operates in standard mode.

Table 7

## 5 Environmental protection and disposal

Environmental protection is a fundamental corporate strategy of the Bosch Group.

The quality of our products, their economy and environmental safety are all of equal importance to us and all environmental protection legislation and regulations are strictly observed.

We use the best possible technology and materials for protecting the environment taking account of economic considerations.

### Packaging

Where packaging is concerned, we participate in country-specific recycling processes that ensure optimum recycling. All of our packaging materials are environmentally compatible and can be recycled.

### Used appliances

Used appliances contain valuable materials that can be recycled.

The various assemblies can be easily dismantled. Synthetic materials are marked accordingly. Assemblies can therefore be sorted by composition and passed on for recycling or disposal.

### Old electrical and electronic appliances



This symbol means that the product must not be disposed of with other waste, and instead must be taken to the waste collection points for treatment, collection, recycling and disposal.

The symbol is valid in countries where waste electrical and electronic equipment regulations apply, e.g. "(UK) Waste Electrical and Electronic Equipment Regulations 2013 (as amended)". These regulations define the framework for the return and recycling of old electronic appliances that apply in each country.

As electronic devices may contain hazardous substances, it needs to be recycled responsibly in order to minimize any potential harm to the environment and human health.

Furthermore, recycling of electronic scrap helps preserve natural resources.

For additional information on the environmentally compatible disposal of old electrical and electronic appliances, please contact the relevant local authorities, your household waste disposal service or the retailer where you purchased the product.

You can find more information here:

[www.weee.bosch-thermotechnologie.com/](http://www.weee.bosch-thermotechnologie.com/)

## 6 Menu overview

The menu items are displayed in the sequence listed below. Depending on the system configuration, all menus are not shown.

### Overview

- Information
  - No active errors
  - HP Info
    - Elapsed time / Compressor starts / Consumed energy / Produced energy / Relative energy suppl. / Auxiliary heater status
- Display settings
  - Brightness active
    - Adjust brightness
  - Brightness stand by
    - Adjust brightness
- Language
  - Čeština / Dansk / Deutsch / Eesti / English / ...
- Date & time
  - Time
    - Adjust time
  - Date format
    - DD.MM.YYYY / MM/DD/YYYY / YYYY-MM-DD
  - Date
    - Adjust date
  - Auto. time switchover
    - No / Yes
  - Time correction factor
    - Adjust time correction factor
- Temp. sensor calibration
  - *Set temperature difference*
- Keylock
  - Activate / Deactivate
- Product information
  - Product name / Software version
- Factory reset

### Heating

- Start Boost/Stop Boost
  - Boost runtime
  - Boost temperature
- Heating Mode
  - Off / Manual / Auto
- Cooling mode
  - Off / Manual
- Time program
  - *Select weekday / Select switching point / Change switching point / Create switching point / Delete switching point / Copy switching point of a day*
- Reset
  - Are you sure you want to reset time program to factory settings?
- Temperature settings
  - Heating / Setback / *Set temperature*
- Season switch
  - Auto / Heating / Cooling
- Heating off from
  - *Set temperature*
- Cooling on from
  - *Set temperature*
- Heating circuit
  - *Indicates the allocated heating circuit*

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**2nd heating circuit**

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- Start Boost/Stop Boost
- Heating Mode
  - Off / Manual (Heating with constant temperature) / Auto (Heating controlled by time program)
- Cooling mode
  - Off / Manual
- Time program
  - *Select weekday / Select switching point / Change switching point / Create switching point / Delete switching point / Copy switching point of a day*
- Reset
  - Are you sure you want to reset time program to factory settings?
- Hot water settings
  - Heating / Setback / *Set temperature*
- Season switch
  - Auto / Heating / Cooling
- Heating off from
  - *Set temperature*
- Cooling on from
  - *Set temperature*
- Heating circuit
  - *Indicates the allocated heating circuit*

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**Hot Water**

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- Start Extra Hot Water/Stop Extra Hot Water
  - *Set duration*
- Operation Mode
  - Off / Manual - Eco+ / Manual - Eco / Manual - Comfort / Auto
- Time program
  - *Select weekday / Select switching point / Change switching point / Create switching point / Delete switching point / Copy switching point of a day*
- Reset
  - Are you sure you want to reset time program to factory settings?
- Red.DHW temp.w. alarm
  - Yes / No
- Status therm. disinfect.
  - On/Off
- Information
  - Current temperature

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**Pool**

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- Operation Mode
  - Off / On
- Allow aux. heat. pool
  - Never / With heating / Always

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**Solar**

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- Solar status
  - *Solar pump (PS1) / Collector temperature*
- Solar yield overview
  - This week / Last week / Total
- Solar sensor overview
  - Collector temperature / Cylinder temp. top / Cylinder temp. bottom / Cylinder temp. centre / Heating return temp. / Collector temp. 2 / Cylinder 2 temp. bottom / Heat exchanger temp. / Mixed heat return temp. / Cylinder 3 temp. top / Cylinder 3 temp. bottom / Cylinder 3 temp. bottom / Temp. flow heat quan. / Temp. return heat quan. / Temp. diff. flow contr. / Temp. diff. return contr.

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**Holiday**

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- From
- To
- Advanced settings
  - Apply to
    - Heating circuit 1...4 / DHW / DHW 2 / Ventilation
  - Heating Mode
    - Same as Sat. time pr. / On - Set temperature / Off / Eco
  - Desired room temp.
  - Hot Water
    - Same as Sat. time pr. / Off / Eco+ / Eco / Comfort
- Save
- Delete

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**Away**

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- Present
  - Away
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