Setting daytime room temperature
Press the button. Change the temperature:

Accept the change: or or automatically after the set info time expires.

Setting night-time room temperature
Press the button. Change the temperature:

Accept the change: or or automatically after the set info time expires.

Setting daytime hot-water temperature
Press the button. Change the temperature:

Accept the change: or or automatically after the set info time expires.

Basic display
Flashing elements in the display
In these instructions, flashing elements in the display are indicated as follows: 

NOTE: In operating mode 2, select the respective heating circuit and confirm it by pressing the input button before setting the daytime or night-time room temperature.

Heating programs
The following heating programs can be selected with the button after the button is pressed:

1. Short-term programs:

   • ABSENT TIL: Brief interruption of heating operation in case of absence.
   • PARTY TIL: Extended heating operation past the regular lowering time.

2. Automatic programs:

   • AUTOMATIC: Automatic heating and lowering operation by switching time program.
   • SUMMER: Exclusively hot-water operation by switching time program, heating switched off, but frost protected.

3. Continuous programs:

   • HEATING: Constant heating operation without time limits.
   • RED.: Constant reduced heating operation.
   • STANDBY: Frost-protected switch-off of heating and hot water.

Selecting program
When the button is pressed, the last selected program flashes. All other programs can be selected with the input button, whereby the marking (rectangle) above the operating mode symbols indicates the respective symbol. The selected program is activated by then pressing the input button.

Example: Automatic program
Press the button and select AUTOMATIC.

Accept the change:

Example: Party program
Press the button and select PARTY TIL.

Accept the change:

System information
After pressing the button, all system temperatures and the operating conditions of all system components can be queried one after another via the input button.

Press:
- System temperatures (setpoints)
- System temperatures (actual values)
- Function and values of variable inputs
- Counter and consumption data

Heating circuit information, such as:
- Program type (HOLIDAY, ABSENT TIL, PARTY TIL, AUTOMATIC etc.)
- Current switching time program (P1 or P1–P3 after enable)
- Operating mode (daytime operation, lowering operation, switch-off operation)
- Heating circuit depending on the device version (HC = direct heating circuit, MC1 = mixed heating circuit 1, MC2 = mixed heating circuit 2, DHW = hot-water circuit)
- Status of the respective heating circuit pump (OFF-ON)
- Status of the respective mixing motor (OPEN-STOP-CLOSE)
- Status of the heat generator (OFF-ON)
- Status and function of the variable outputs

NOTE: The system information appears in accordance with the device version used.
Setting range: Direct heating circuit (HC), mixed heating circuits 1 (MC1), mixed heating circuits 2 (MC2), hot-water circuit (DHW), default programs, copying heating circuits.

NOTE: The switch-off time is displayed in the top time block (6–7), entire week (1–7).

NOTE: The switch-on time is displayed in the top time block (1–5), weekday block (Mon., Sun.), weekday block (1–5), weekend block (6–7), entire week (1–7).

NOTE: Every setting value that flashes in the display is corrected immediately.

The digital wall device SDW 30 can be connected to a central controller (central device).

With a digital wall device, remote control of a central heating system. The selection of the address for the heating circuit to which the SDW 30 is to be assigned (bus address) is to act.

Installation

1. Selection of the circuit, reloading of default programs, copying

Setting range: Direct heating circuit (HC), mixed heating circuits 1 (MC1), mixed heating circuits 2 (MC2), hot-water circuit (DHW), default programs, copying heating circuits

Continue:

2. Selection of the switching time program

Prerequisite: Parameter 02 in the “System Parameters” menu is P1–P3.

Setting range: P1, P2, P3

Continue:

3. Selection of weekday and heating cycle, copying (block building)

Setting range: Mon. 1st cycle – Mon. 2nd cycle, sequence: Tue. 1st cycle – Tue. 2nd cycle – Sun. 2nd cycle, copy to individual days (Mon., Sun.), weekday block (1–5), weekend block (6–7), entire week (1–7).

NOTE: If the second cycle is occupied, a third cycle is available.

Continue:

4. Start of heating (switch-on time)

Setting range: 0:00 to 24:00 hours

NOTE: The switch-on time is displayed in the top time block via a flashing segment.

Continue:

5. End of heating (switch-off time)

Setting range: 0:00 to 24:00 hours

NOTE: The switch-off time is displayed in the top time block via a flashing segment.

Continue:

6. Cycle temperature for the selected heating cycle on selected weekday

Setting range: for heating circuits (HC, MC1, MC2): 5 to 30°C for the hot-water circuit (DHW): 10 to 80°C (or the maximum hot-water temperature)

Continue:

7. Selection of weekday and heating cycle, copying (block building)

If necessary, select the next heating cycle or weekday as described in Step 3 and program it accordingly.

Function

Bus address

The selection of the address for the heating circuit to which the SDW 30 is to be assigned (bus address) occurs the first time an SDW 30 is connected to the bus system. Should the address be changed later on, the press and turn button must be pressed and held when the wall device is set into the socket until the bus address appears in the display.

After the input has been confirmed, feedback of the heating circuit (HC, MC1, MC2) and the central device (CU) to which the digital wall device has been assigned is output.

Assignment is carried out on the basis of the following table:

<table>
<thead>
<tr>
<th>Address</th>
<th>CU address</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>10</td>
<td>CU 1 – Direct heating circuit</td>
</tr>
<tr>
<td>12</td>
<td>10</td>
<td>CU 1 – Mixed heating circuit 1</td>
</tr>
<tr>
<td>13</td>
<td>10</td>
<td>CU 1 – Mixed heating circuit 2</td>
</tr>
<tr>
<td>21</td>
<td>20</td>
<td>CU 2 – Direct heating circuit</td>
</tr>
<tr>
<td>22</td>
<td>20</td>
<td>CU 2 – Mixed heating circuit 1</td>
</tr>
<tr>
<td>23</td>
<td>20</td>
<td>CU 2 – Mixed heating circuit 2</td>
</tr>
<tr>
<td>31</td>
<td>30</td>
<td>CU 3 – Direct heating circuit</td>
</tr>
<tr>
<td>32</td>
<td>30</td>
<td>CU 3 – Mixed heating circuit 1</td>
</tr>
<tr>
<td>33</td>
<td>30</td>
<td>CU 3 – Mixed heating circuit 2</td>
</tr>
<tr>
<td>41</td>
<td>40</td>
<td>CU 4 – Direct heating circuit</td>
</tr>
<tr>
<td>42</td>
<td>40</td>
<td>CU 4 – Mixed heating circuit 1</td>
</tr>
<tr>
<td>43</td>
<td>40</td>
<td>CU 4 – Mixed heating circuit 2</td>
</tr>
<tr>
<td>51</td>
<td>50</td>
<td>CU 5 – Direct heating circuit</td>
</tr>
<tr>
<td>52</td>
<td>50</td>
<td>CU 5 – Mixed heating circuit 1</td>
</tr>
<tr>
<td>53</td>
<td>50</td>
<td>CU 5 – Mixed heating circuit 2</td>
</tr>
</tbody>
</table>

CAUTION

Double assignments of bus addresses are not permissible and inevitably lead to errors in data transmission and thus to faulty control behaviour of the heating system.

Installation

Installation location

The wall device is to be attached in a neutral measurement location, i.e. that is representative of all rooms, at a height of approx. 1.2 to 1.5 m. It is advisable to select a partition wall of the coolest room used during the day.

If the desired daytime room temperature or hot-water temperature is changed with the button, all associated cycle temperatures change by the same value accordingly.

Continue:

CAUTION

If all locations in direct sunlight (take seasonal variations into consideration)

near devices that generate heat, such as televisions, refrigerators, wall lamps, radiators etc.

to walls containing heating or hot-water pipes or heated chimneys

to exterior walls

in corners or wall recesses, shelves or behind curtains (insufficient air circulation)

near doors leading to unheated rooms (external cold influence)

in front of unsealed flush-mounted boxes

Installation

Remove the front cover and secure the wall device at the intended installation site using screws and plugs. Feed the data bus cable required for the electrical connection through the central break-out.

Electrical connection

Make the electrical connection to the 2-pole terminal strip. Recommended connection cable: J-Y (ST) Y 2 x 2 x 0.6 mm².

Caution

Do not switch connection terminals A and B!

After connecting the data bus cable and setting the bus address, reattach the front cover.

General wiring diagram

Fig. 1: Connection of SDW 30 to central device

a Data bus
b Data bus cable (shielded)
c SDW 30 connected to heating circuit 1 (direct heating circuit)
d Additional wall devices connected to heating circuit