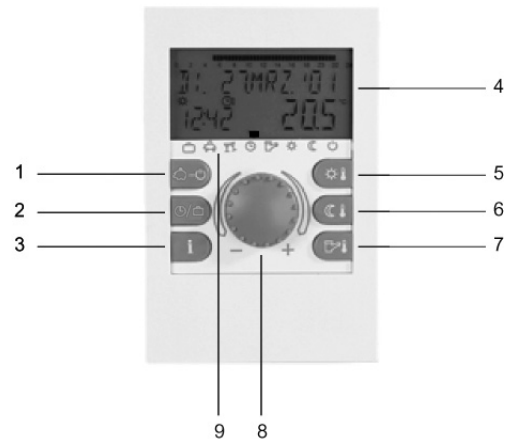


Wall device SDW 30

GETTING STARTED



- 1 "Operating modes" button (basic display)
- 2 "Switching time programs"/"Holiday programs" button
- 3 "System information" button
- 4 Display
- 5 "Daytime room temperature" button
- 6 "Night-time room temperature" button
- 7 "Daytime hot-water temperature" button
- 8 Input button (press/turn)
- 9 Operating mode symbols (heating programs)

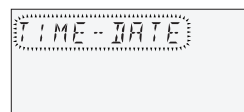
Input button (press/turn) – General functions

Selected setpoints and parameters can be changed with the input button and then saved by pressing the button. The various programs can be selected by turning the input button.

- Turning to the right (+): increases adjustment
- Turning to the left (-): decreases adjustment
- Press: accepts the selected and displayed value
- Press and hold: jumps to the programming level (level selection), jumps back to the previous selection

Flashing elements in the display

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



Basic display

MO. 17MAR. 108 Day of the week, date, time, heat generator temperature
16:32 63.5°

The mark (rectangle) over the operating mode symbols indicates the current operating mode.

Special indicators

MO. 17MAR. 108 Snowflake symbol: System anti-freeze active

16:32 63.5°

MO. 17MAR. 108 Beach umbrella symbol: Summer de-activation active (heating switched off; hot water by program)

16:32 63.5°

IHW Error message (e.g. hot water) alternates with the basic display: Contact a heating specialist!
ERROR 50-4

Setting daytime room temperature

Press the button.

ROOM DAY **20.0°** **Change the temperature:**

Setting range: 5 to 30°C

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

Setting night-time room temperature

Press the button.

ROOM NIGHT **20.0°** **Change the temperature:**

Setting range: 5 to 30°C

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

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

Setting daytime hot-water temperature

Press the button.

IHW **DAY** **50.0°** **Change the temperature:**

Setting range: 5°C to the maximum hot-water temperature

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

Heating curves

With the heating curves, the heating power is adapted to the building condition based on the respective outside temperature.

Correcting slope of heating curve

Entering the menu: for approx. 3 seconds

TIME-DATE **Select the heating circuit:**

HC = Direct heating circuit
 MC1 = Mixed heating circuit 1
 MC2 = Mixed heating circuit 2

HEATCURVE **Accept the change:**

HC 68.0

HEATCURVE **Correct the characteristic curve:**

Room temperature too hot: Reduce setting value
 Room temperature too cold: Increase setting value

Accept the change: or automatically after the set info time expires. If necessary, call up additional heating circuits and correct the slopes of the heating curves.

CAUTION

Corrections may only be carried out after a sufficiently long period of steady conditions and in small increments.

Finish (return to basic display): Press the button.

Heating programs

The following heating programs can be selected with the input 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. HEATING** Constant reduced heating operation without time limits.
- 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.

AUTOMATIC **Accept the change:** or

When a time program is selected, the respective accompanying periods such as the return date (HOLIDAY), return time (ABSENT TIL) or extended heating mode (PARTY TIL) can be specified.

Example: Party program

Press the button and select PARTY TIL.

PARTY TIL **Accept the change:** or

18:10

Change the time:

PARTY TIL **Change the time:**

18:10

Accept the change: or

4. Holiday programs

The holiday programs can be selected with the button.

- HOLIDAY** Frost-protected switch-off or reduced operation of heating during holidays. Hot water is switched off, but frost protected.

Example: Holiday programs

Press the button, select HOLIDAY and confirm with .

Select holiday block (e.g. HOLIDAY 01) and confirm with .

HOLIDAY 01 **Change the year and date:**

2008 07.03

Accept the change:

HOLIDAY **Enter the date:**

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)

Turn:

- 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-CLOS)

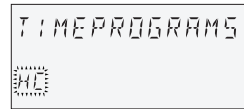
- Status of the heat generator (OFF-ON)

- Status and function of the variable outputs



NOTE: The system information appears in accordance with the device version used.

Switching time programming

Entering the "Switching times" level: Press the  button.




(For detailed information see the SDC/DHC operating instructions, GE2H-0220)

Every setting value that flashes in the display is corrected with the input button and accepted by pressing the button. Pressing the  button jumps back to the previous selection. Pressing the  button or waiting the set info time jumps back to the basic display.

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

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

Continue: 




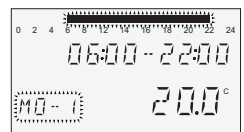
2. Selection of the switching time program

Prerequisite:

Parameter 02 in the "System Parameters" menu is P1-P3.

Setting range: P1, P2, P3


Continue: 

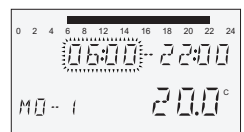


3. Selection of weekday and heating cycle, copying (block building)

Setting sequence: Mon. 1st cycle – Mon. 2nd cycle, 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: 

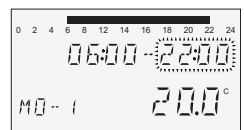


4. Start of heating (switch-on time)

Setting range: 0:00 to 24:00 hours

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

Continue: 

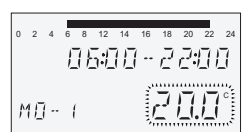


5. End of heating (switch-off time)

Setting range: 0:00 to 24:00 hours

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



Continue: 



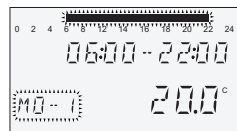
6. Cycle temperature for the selected heating cycle on selected weekday

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)

CAUTION

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

Continue: 

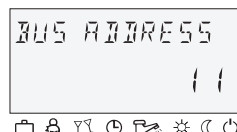


7. Selection of weekday and heating cycle, copying (block building)

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

Operation of digital wall device SDW 30

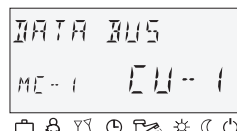
Function



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 device (e.g. from a living room), in addition to room temperature detection, is possible. Settings can be carried out for all the existing heating circuits.

The bus address of the wall device is used to specify the heating circuit on which the **room sensor** (room influence) is to act.



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:

Address	CU address	Assignment
11	10	CU 1 – Direct heating circuit
12	10	CU 1 – Mixed heating circuit 1
13	10	CU 1 – Mixed heating circuit 2
21	20	CU 2 – Direct heating circuit
22	20	CU 2 – Mixed heating circuit 1
23	20	CU 2 – Mixed heating circuit 2
31	30	CU 3 – Direct heating circuit
32	30	CU 3 – Mixed heating circuit 1
33	30	CU 3 – Mixed heating circuit 2
41	40	CU 4 – Direct heating circuit
42	40	CU 4 – Mixed heating circuit 1
43	40	CU 4 – Mixed heating circuit 2
51	50	CU 5 – Direct heating circuit
52	50	CU 5 – Mixed heating circuit 1
53	50	CU 5 – Mixed heating circuit 2

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.

The wall device may **not** be attached:

- at 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

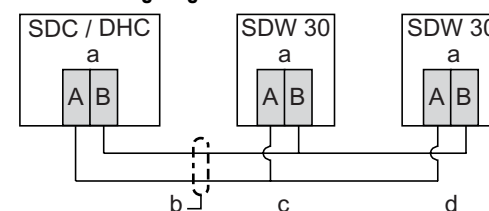


Fig. 1: Connection of SDW 30 to central device

- 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

Honeywell

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