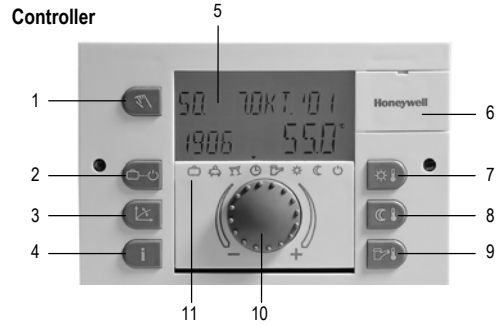


Heating controller SDC

District heating controller DHC 43

QUICK OPERATION REFERENCE GUIDE



- 1 "Manual mode" / "Emission measurement" key (n.a. to district heating controllers)
- 2 "Operating mode" key (basic display)
- 3 "Heating characteristics" key
- 4 "Information" key
- 5 Display
- 6 Cover clip for service socket
- 7 "Daytime room temperature" key
- 8 "Night-time room temperature" key
- 9 "DHW temperature" key (domestic hot water)
- 10 Rotary pushbutton (press/turn)
- 11 Operating mode symbols

Rotary pushbutton with key function – General

With this pushbutton you can change and store selected setpoints and parameters.

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

Basic display

Weekday, date, time
Heat generator temperature
Cursor shows the actual operating mode

Special displays

Ice crystal symbol:
Frost protection active

Sunshade symbol:
Summer switch off active
(Heating off, DHW as programmed)

Error indication (e.g. warm water)
changes with basic display –
Please notify service company!

Emission measurement (only for service and also only for heating controllers)

Actual boiler temperature
Rest of measuring interval

After pushing the emission key, the heat generator controls the temperature with regard to the specified maximum temperature. The duration of the emission measurement is limited to 20 minutes and may need to be reactivated.

Stop:
Press key or wait for end of timer.

Manual mode

Push key for 5 seconds.

Heat generator temperature:
Actual heat generator temperature
Desired setpoint (flashing)

Adjust heat generator setpoint to the desired value

Return to automatic mode: Push key.

Setting desired daytime room temperature

Push key.

Change temperature:
Adjustment range 5.0 to 30 °C

Accept changes:

Push or , or automatically after the set info time.

Setting desired night-time room temperature

Push key.

Change temperature:
Adjustment range 5.0 to 30 °C

Accept changes:

Push or , or automatically after the set info time.

Note: If control mode 2 is active, select the concerned heating circuit and confirm by pushing the rotary pushbutton before setting daytime or night-time room temperature.

Setting desired daytime DHW temperature

Push key.

Change temperature:
Adjustment range: 10 °C to WW-Max

Accept changes:

Push or , or automatically after the set info time.

Heating characteristics

With heating characteristics you can adjust the heating power according to the outdoor temperature and the type of building.

Please choose the following initial values:

Heating system	Climate zone I	Climate zone II	Climate zone III
Floor heating	1.10	1.00	0.90
Radiator	1.70	1.55	1.45
Convactor	2.20	2.00	1.85

For heat-requirement calculation, the climate zone is assumed as the coldest outside temperature expected and can be obtained from the service company.

For detailed heating curve diagram description, please refer to the "SDC/DHC Operating Instructions", form no. EN2H-0220.

Correcting heating characteristic

Push key.

Select heating circuit:
HC = unmixed heating circuit
MC1 = mixing circuit 1
MC2 = mixing circuit 2

Accept:

Correct characteristic:
Room temperature too warm:
Reduce value
Room temperature too cold:
Increase value

Accept changes: or .

If necessary repeat this process with the next circuit.

ATTENTION

Correct only in small steps after a reasonable period of time!

Finish (Return to basic display):

Operating modes

The following operating modes can be selected with .

1. Short-term modes:

- HOLIDAY** Heating and domestic hot water (DHW) will be switched off with frost protection for the whole duration of the holiday.
- ABSENCE** Heating will be temporarily switched off in case of a brief period of absence.
- PARTY** For the specified date, heating will be extended beyond the regular reducing time.

2. Automatic modes:

- AUTOMATIC** Automatic heat- and setback operation according to time program.
- SUMMER** Only DHW operation with time program, heating system switched off with frost protection.

3. Constant modes:

- HEATING** Continuous heating mode with no time limit.
- REDUCED** Continuous reduced mode with no time limit.
- STANDBY** Frost protected mode for heating and DHW

Selecting operating mode

After pressing the key the last chosen operating mode is flashing. All other modes can be selected with the rotary pushbutton. The cursor is pointing at the selected mode.

The mode will then be activated by pushing the rotary pushbutton.

Example: Select the automatic mode and confirm.

Push key and select Automatic.

Confirm: or

If a short-term program is selected, the respective accompanying periods such as the return date (HOLIDAY), return time (ABSENCE) or extended heating mode (PARTY) can be specified.

Example: Holiday

Push key and select Holiday.

Confirm: or

Change:

Confirm adjusted value: or

System Information

After pressing the key, all system temperatures and the operating conditions of all system components can be queried one after another via the rotary pushbutton.

Press:

– System temperatures (setpoints)

Turning clockwise:

- System temperatures (actual values)
- Function and value of variable inputs
- Counter and consumption data

Turning anti-clockwise:

- Heating circuit informations like
 - operating mode (Holiday, Absence, Party, Automatic, etc.)
 - actual time program (P1 or P1-P3 after enable)
 - control mode (day, reduced, ECO)
 - heating circuit (HC, MC1, MC2, DHW depending on controller type)
 - status of pumps (ON-OFF)
 - status of valves (OPEN-STOP-CLOSE)
 - status of heat generator (ON-OFF)
 - status of variable outputs

NOTE: This information will appear if the corresponding functions and outputs are available in this type of controller.

Switching time programming

The programming of switching times is explained with the following scheme. For further information, please look also in the "SDC/DHC Operating Instructions", form no. EN2H-0220.

Every flashing value can be adjusted by turning and will be confirmed by pushing the rotary pushbutton.

The key will lead you one step back, the operating mode key will lead you back the basic display automatically after the set info time.

Parameter menu selection: approx. 3 seconds long

Start for switching program:

1. Select circuit, reload default programs, copy programs

Adjustment range: unmixed circuit (HC), mixing circuit 1 (MC1), mixing circuit 2 (MC2), domestic hot water (DHWs), default programs, copy of heating circuits

More:

2. Select time program

Appears only when enabled in system parameter menu
Adjustment range: P1, P2, P3

More:

3. Select weekday and heating cycle, copy (block building)

Sequence: Mo 1st cycle – Mo 2nd cycle, Tu 1st cycle, Tu 2nd cycle ... Su 2nd cycle; Copy single days (Mo...Su) working day group (1...5) or weekend group (6...7).

NOTE: If second heating cycle is used there is a third cycle available.

More:

4. Heating start (switch-on time)

Adjustment range: 0.00 to 24.00 o'clock

NOTE: The switch-on time is displayed as a flashing segment in the above timeline.

More:

5. Heating end (switch-off time)

Adjustment range: 0.00 to 24.00 o'clock

NOTE: The switch-off time is displayed as a flashing segment in the above timeline.

More:

6. Cycle temperature of the selected circuit and the selected day

Adjustment range: For heating circuits (HC, MC1, MC2): 5.0 to 30 °C
For DHW: 10.00 to 80 °C (or high limit)

CAUTION

If day and DHW temperatures are changed by means of the and keys, then only the relative change is added to or subtracted from the corresponding cycle temperatures!

More:

7. Select weekday and heating cycle, copy (block programming)

Select next heating cycle or weekday if necessary as described under 3. and adjust accordingly.

Honeywell

Control Products

Honeywell AG
Böblinger Straße 17
D-71101 Schönaich
Phone: (49) 7031 63701
Fax: (49) 7031 637493
<http://europe.hbc.honeywell.com>

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