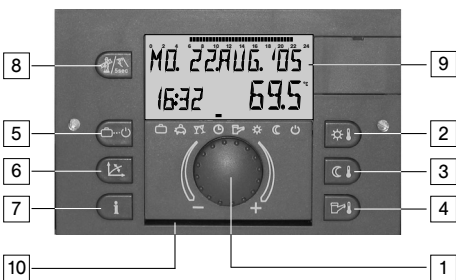


Operating instructions summary

for standard unit and boiler control panel

Operational elements (standard unit)



- 1 - Main knob with two functions (turn, push)
- 2 - Setting daytime temperature
- 3 - Setting set back temperature
- 4 - Setting hot-water temperature
- 5 - Heating and set back operational modes
- 6 - Setting heating characteristics
- 7 - Displaying operation information and temperatures
- 8 - Manual mode and emission measurement
- 9 - Backlit LCD display
- 10 - Operating instructions summary slot

Operational elements (boiler control panel)



see standard unit, additionally under hinged cover:

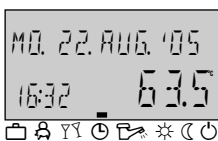
- 11 - Safety temperature limiter (STB)
- 12 - Mains fuse
- 13 - Mains switch

Operation and symbols

With the combination knob values are selected, parameters modified and, by pressing the knob they are memorized.

- Turn to the right (+): increase values
- Turn to the left (-): decrease values
- Press once: Acceptance of the selected and indicated value
- Keep pressed: Entry into the programming level, re-entry into the previous selection

Standard display



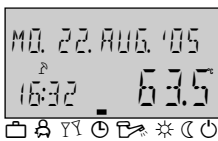
Weekday, date, time, boiler temperature

The current operational mode is indicated by an arrow pointing to the appertaining symbol

Affichages spéciaux



Frost cristal symbol:
Frost protection mode is activated

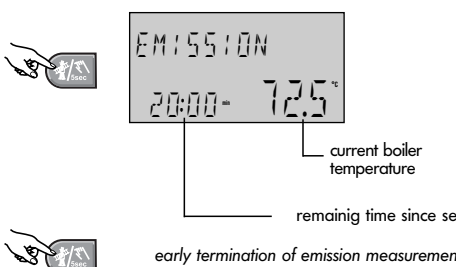


Sun shade symbol:
Summer mode is activated
(heating switched off, hot-water according to timer-program)



Error message (example)
appears alternating with standard display
Call heating specialist!

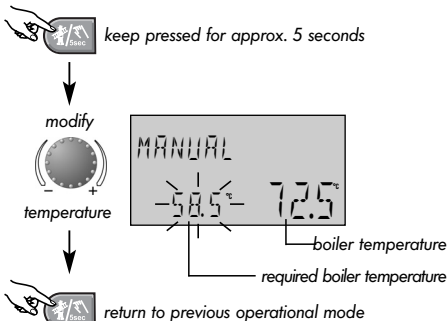
Emission measurement (for flue cleansing)



When pressed the boiler operates at its maximum preset temperature for 20 minutes. After this time the emission measurement can be started again.

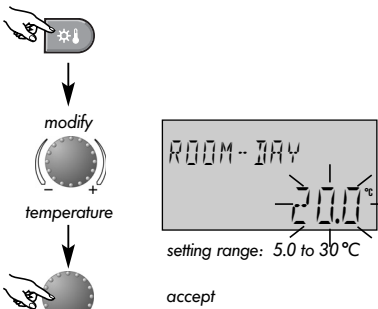
For more information see *Operating Instructions - Special operating modes - Emission measurement*

Manual mode (adjust boiler temperature)



For more information see *Operating Instructions - Special operating modes - Manual mode*

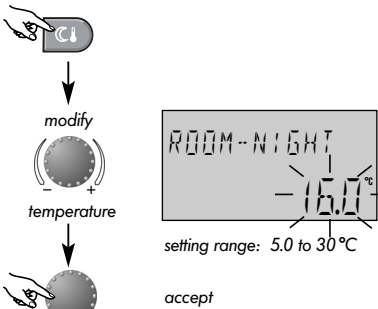
Setting the required daytime temperature



For more information see *Operating Instructions - Temperature settings*

Temperature settings

Setting the required set back temperature

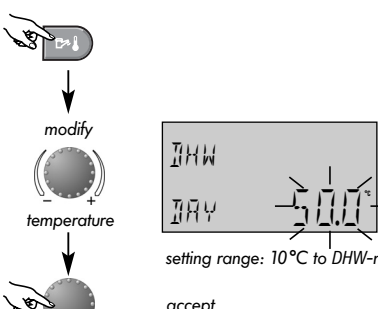


For more information see *Operating Instructions - Temperature settings*

Note:

For separated control mode the relevant heating circuit must be selected first before setting daytime or set-back temperature!

Setting the required hot-water temperature



For more information see *Operating Instructions - Temperature settings*

Heating curves

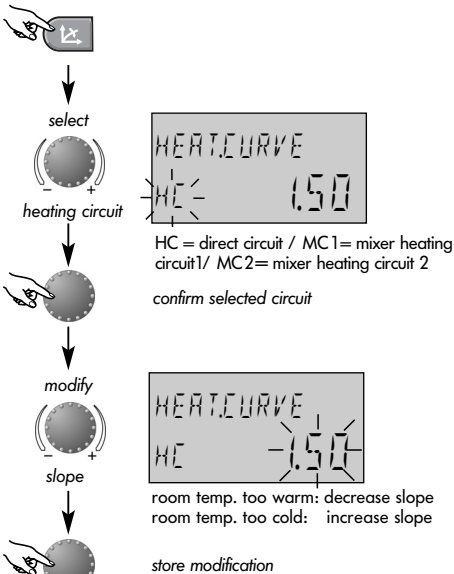
The adjustment of the heating curve is dependent of the plant installation and shows the relation between the outside temperature and the heating water temperature.

Recommended setting values:

| Heating system | coldest outside temperature (regional) | | |
|----------------|--|-------|-------|
| | -12°C | -15°C | -18°C |
| Underfloor | 1.10 | 1.00 | 0.90 |
| Radiator | 1.70 | 1.55 | 1.45 |
| Convactor | 2.20 | 2.00 | 1.85 |

The calculation of the required heating energy is based on the coldest average outdoor temperature and can be requested from the heating specialist.

Setting the heating curve






Modify next heating circuit(s) in the same way, if necessary.
Attention! Alter only in small steps and in intervals of 0.1 every 1 or 2 days. Thermostatic radiator valves should almost be opened fully.

For more information see *Operating Instructions - Setting the heating characteristics.*



Operational modes

The following operational modes can be selected:




1. Short period operational modes:

-  **HOLIDAY** Heating and hot-water operation switched-off frost protected for holiday period.
-  **ABSENT** Heating operation is interrupted until set time of return.
-  **PARTY** Heating operation is continued until end of party.


2. Automatic operational modes:

-  **AUTOMATIC** Heating and hot-water operation automatically according to selected timer program.
-  **SUMMER** Only hot-water operation according to selected timer program and hot-water temperature

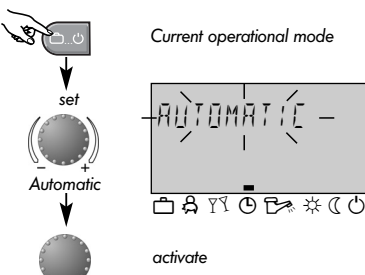
3. Permanent operational modes:

-  **HEATING** Heating and hot-water operation continuously to the set temperatures
-  **RED.HEATING** Heating and hot-water operation continuously to the set reduced temperatures
-  **STANDBY** Complete heating plant frost protected switched-off

Selection of operational modes:

Pressing the button , the previously selected mode appears flashing. The other operational modes can be selected and activated with the knob, simultaneously an arrow at the lower edge of the display points to the appertaining program symbol.

Example: Select and activate AUTOMATIC- operational mode

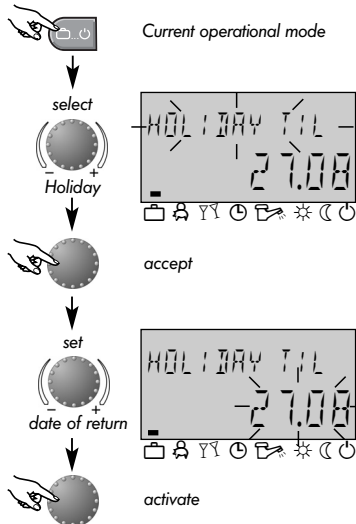


Note: For separate selection of operational mode first select corresponding heating circuit!

Selected short period operational modes the corresponding time settings such as date of return (HOLIDAY) or time of

return (ABSENT) or extended heating operation (PARTY) can be adjusted).

Example: Set and activate holiday mode



Description in detail see Operating Instructions - sections

- **Operational mode selection for heating and hot-water**
- **Functions of operational modes**
- **Quick operational mode selection**

Plant information

The information button displays general information such as temperatures and plant conditions.

Turn knob clockwise:

- Temperatures (real and nominal values)
- variable inputs (function and values)
- meter reading such as consumption datas etc.

Turn knob anti-clockwise:

heating circuit information such as

- Operational mode (Holiday, Absent, Party, Automatic, etc.)
- Operating times program (P1 or P1-P3 after clearance)
- mode of operation (daytime or reduced mode, ECO-mode)
- Heating circuit identification (HC, MC1, MC2, DHW)
- Status of heating circuit pumps (ON-OFF)
- Status of mixer position (OPEN-STOP-CLOSE)
- Status of boiler (ON-OFF)
- Status and function of variable outputs

Note: The plant information appear only if available at the type of instrument.



Description in detail see Operating Instructions - section

Plant information

Programming operating times

Operating times will be programmed as shown below. More information see Operating Instructions -

Programming of operating times.

Each setting flashing on the display can be adjusted with the knob and confirmed by pressing it. Re-entry into the previous selection is done via the info button , re-entry into the standard display via the button  or automatically after approx. 60 seconds.

