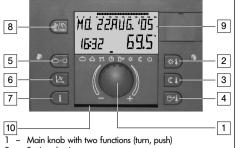
## **Operating instructions summary**

for standard unit and boiler control panel

## Operational elements (standard unit)



- Setting daytime temperature
- Setting set back temperature
- Setting hot-water temperature Heating and set back operational modes
- Setting heating characteristics
- Displaying operation information and temperatures
- Manual mode and emission measurement
- Backlit LCD display
- 10 -Operating instructions summary slot

## Operational elements (boiler control panel)



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

#### Operation and and symbols Geral functions

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

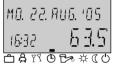


Press once: Acceptance of the selected and indi-cated value



<u>Keep pressed</u>: 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 poin-ting to the appertaining symbol

## Affichages spéciaux



Frost cristal symbol: Frost protection mode is activated

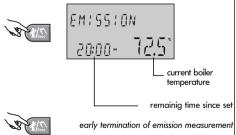


Sun shade symbol: Summer mode is activated (heating switched off, hot-water according to timer-program)



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

## **Emission measurement (for flue cleansing)**

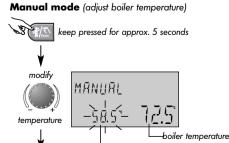


When pressed the boiler operates at its maximum preset temperature for 20 minutes. After this time the emission

measurement can be started again.

For more inform

## Special operating modes - Emission measure-

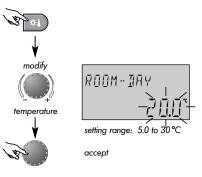


return to previous operational mode

guired boiler temperature

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

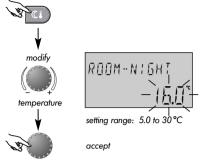
## Setting the required daytime temperature



For more information see Operating Instructions -

Temperature settings

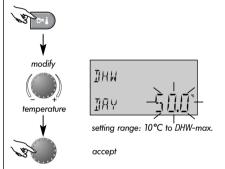
### Setting the required set back temperature



For more information see Operating Instructions -Temperature settings

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**

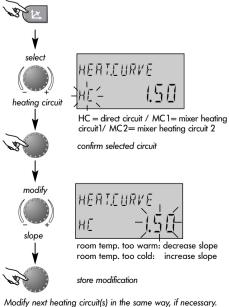
The adjustment of the heating curve is dependent of the plant installation and shows the relation between the outside temperature and the heating water temperature.

Recommended setting values:

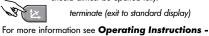
Heating system	coldest outs -12℃	ide temperatur   -15°C	e (regional) -18℃
Underfloor	1.10	1.00	0.90
Radiator	1.70	1.55	1.45
Convector	2.20	2.00	1.85

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

## Setting the heating curve



Attention! Alter only in small steps and in intervalls of 0.1 every 1 or 2 days. Thermostatic radiator valves should almost be opened fully.



Setting the heating characteristics.

return (ABSENT) or extended heating operation (PARTY) can be Operational modes ( S T O S \* C O) adjusted). The following operational modes can be selected: **Example:** Set and activate holiday mode 1. Short period operational modes: HOLIDAY Heating and hot-water operation swit-\$ C. C. Current operational mode ched-off frost protected for holiday peri-

**ABSENT** Heating operation is interrupted until set select 1 1184 time of return. TY PARTY Heating operation is continued until end of party. Holiday **©** 2. Automatic operational modes: AUTOMATIC Heating and hot-water operation automatiaccept cally according to selected timer program. **SUMMER** Only hot-water operation according to selecset ted 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

Complete heating plant frost protected

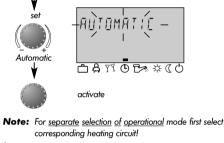
Selection of operational modes:

switched-off

STANDRY

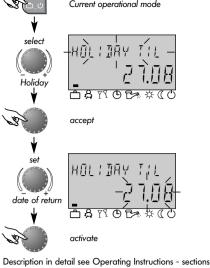
Pressing the button ( co), the previously selected mode appears flashing. The other operational modes can be selected and activated with the knob, simultanously an arrow at the lower edge of the display points to the appertaining program **Example:** Select and activate AUTOMATIC- operational mode

Current operational mode



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

**Programming operating times** 



•Operational mode selection for heating and hot-wate •Functions of operational modes •Quick operational mode selection

**Plant information** 

#### peratures and plant conditions.

Turn knob clockwise: - Temperatures (real and nominal values)

The information button displays general information such as tem-

### variable inputs (function and values)

meter reading such as consumption datas etc.

Turn knob anti-clockwise:

heating circuit information such as

## - Operating times program (P1 or P1-P3 after clearance)

- Operational mode (Holiday, Absent, Party, Automatic, etc.)

- 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 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 1, re-entry into the standard display via the button or automatically after approx. 60 seconds.

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

sec Entry into level selection: Press knob for approx. 3 seconds



Entry into the operating times



Setting range: Direct circuit (HC), mixer heating circuit 1 (MC1)\*, mixer heating circuit 2 (MC2)\*, domestic hot-water circuit (DHW)

1. Select heating or hot-water circuit

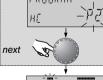
\* not in all units available

next



#### Appears only after clearance (see level selection SYSTEM/Parameter PROGRAM = P1-P3) Setting range: P1, P2, P3

2. Select operating times program



.<del>......</del> 06.00-08.00

## 3. Select weekday and heating cycle

Setting order: Mon 1. cycle - Mon 2. cycle, Tue 1. cycle - Tue 2. cycle.. etc. ..Sun 2. cycle Note: A third cycle is available if the second cycle is programmed.

next



-08.00

20.0\*

**4. Heating start** ( = 1. switching-on time)

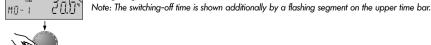
Setting range: 0.00 to 24.00 h

next



**5. Heating end** ( = 1. switching-off time) Setting range: 0.00 to 24.00 h

next



Attention:

**6. Cycle temperature** ( = temperature during heating resp. hot-water operati-

5.0 °C to 30 °C 10.0 °C to maximum DHW-delimitation Setting range for heating circuits (HC, MC1, MC2): for hot-water circuit (DHW): When changing daytime temperature (button \*\*) or hot-water temperature

(button [50]) all related cycle temperatures will be changed by the same amount.

next



if necessary, select and program next heating cycle or weekday as described under 3.

06.00-08.00 20.01

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