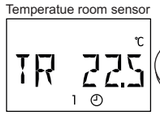
# Basic control level UVR63H Vers. 7.5 Heating controller

navigiate
select acces menu
change
confirm close

Set time


- Hours or minutes flash ready for entry
- Switch between hours/minutes
- Change hours/ minutes
- Accept time

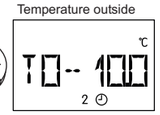
Temperatue room sensor




If the room sensor RAS02 is used, then it is important that the type is set to S1 RAS in the sensor menu. Only then can the switch position of the room sensor (operating mode) be correctly processed.

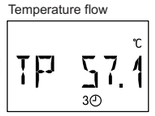
Note in respect of incorrectly set sensor type: The correct temperature is only displayed in automatic operation. Other switch positions show excess temperatures.

Temperature outside



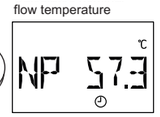

The nominal flow temperature is calculated using the external temperature and on the basis of the heat curve.

Temperature flow



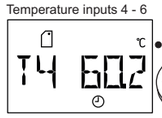

Display of the flow temperature in °C. In the ideal case the measured value matches the nominal value NP. If TP < NP the mixer is opened, if TP > NP the mixer is closed.

Calculated nominal flow temperature



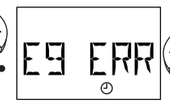

The nominal flow temperature is calculated based on the heating curve and the measured external temperature. The heating circuit controller attempts to reach this temperature at the flow sensor TP through mixer OPEN / CLOSED.

Temperature inputs 4 - 6




The sensor inputs S4-S6 are allocated dependent on the program. T4, T5 and T6 therefore indicate the actual measured temperature as long as the inputs have been allocated. If the sensor is not connected, the display indicates: 999°C


Values of external sensors, which are read-in via the data link. Only active inputs are displayed.




**ERR** means that no valid value has been read. In this case the external value is set to 0.

### Notes on sensor installation

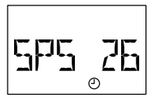
The room sensor should be installed in the reference room not near to a source of heat or near a window.
The external temperature sensor should be mounted on the coldest wall side some two meters above ground. Temperature influences from nearby air ducts, open windows, etc., should be avoided as far as

OPTIONAL DISPLAYS (after T6 or ext. sensors)

**Volume flow**


Volume flow, shows the flow rate of the volume flow encoder in litres per hour

Current **Speed stage**




This display only appears if pump speed control **(PSC)** is activated. The currently output speed stage is indicated (example 26).

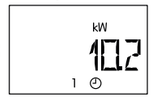
Current **analogue level**


This display only appears when the control output is activated. The currently output analog value is displayed (example: 14 = 1.4V or 14% (PWM)

Current **volume flow**


Volume flow [l/h] which is used to calculate the heat quantity. The value here can be either a fixed value (l/h with activated pump output) or a measurement from a volume flow encoder.

Current **power**




The currently determined power equals 10.2 kW. This value is calculated from the flow temperature, return temperature and volume flow in the heat quantity counter.

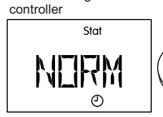
**Counted heat quantity** in MWh


Total heat quantity in MWh

**Counted heat quantity** in kWh


Total heat quantity in kWh

Status heating circuit controller




**Status display**
Heating controller:
NORM = normal mode
LOW = lowering mode
STB = standby
MALF = malfunction
FRO = frost protection mode

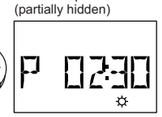

Display of the active switch-off conditions of the heating pump

Mode heating circuit controller


**Operating mode**
Heating controller
AUTO = automatic mode
NORMAL = normal mode
LOWER = lowering mode
PARTY = party mode
LEAVE = vacation mode
HOLID = national holiday
STB = standby

- Display flashes (ready for entry)
- Set operating mode
- Accept setting

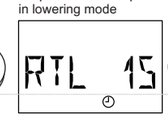
Additional parameter for mode (partially hidden)




These additional settings are partially hidden.
Example: Party mode up to 02.30 h
AUTO =hidden
NORMAL=hidden
LOWER=hidden
PARTY =Party until P XX.XX h
LEAVE=holiday until date M XX XX
HOLID=holiday until date M XX XX
STB =hidden

- Display flashes (ready for entry)
- Change time/date
- Accept setting

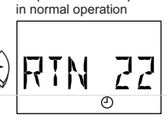
Required room temperature in lowering mode




- Nominal value lowering mode flashes ready for entry
- Change nominal value
- Accept value

Room temperature nominal value outside the time programs.

Required room temperature in normal operation



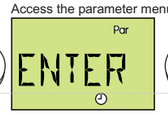

- Nominal value normal mode flashes ready for entry
- Change nominal value
- Accept value

This value is used as the nominal value for the room if the time program does not specify a different one.

Menu for entering the time program


- For selection of the time programs P1-P5, of the shift working program, the rate time and the day-date
- Accept value

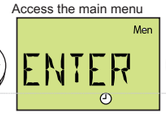
Access the parameter menu




- Access the parameter menu


Further settings see page 2

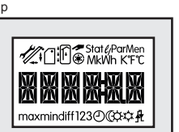
Access the main menu



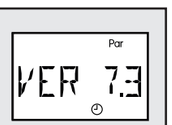

- Access the menu “Men”


Further settings see page 2

All display segments are momentarily displayed when the device is started up.




After startup the type designation and the version number are again shown in the display. This gives information about the device intelligence (important for support queries).

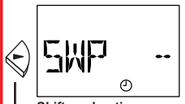



The factory setting is loaded by pressing button during plugging in. The following appears on the display: (Load factory setting)


## TIME PROGRAM

Menu for entering the time program

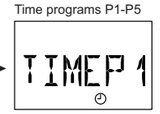

Set time programs




During the switch-on times "NORMAL MODE" with the allocated nominal values "NW" applies for the heating circuit. If no nominal values are allocated to the time program, "RTN" is used. Outside the time program, "LOWERING MODE" governs the control with "RTL" as the nominal value. “RTL” and “RTN” must be set in the basic operating level.

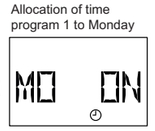
**Shift worker time program**
With this it is possible to create several time programs with differing heating periods and to specifically enable time windows simply by setting the parameters **SWP**. With a combination of programs 1 to 4 with 5 **TIMEP1** to 4 are the programs during shift working and **TIMEP5** is envisaged for the weekend.

Time programs P1-P5



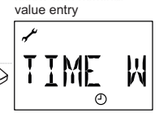

Select time program 1

Allocation of time program 1 to Monday



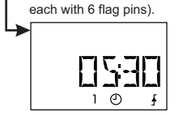

- Select days MO - SU
- Switches ON or OFF
- confirm and select the next day

After the SU week day allocation, time windows 1-3 follow with nominal value entry



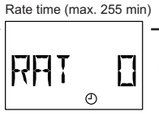

Set switch-on times 1 - 3

For each time program (P1-P5) there are 3 time windows with possible nominal value allocations available.(Comparable with analog time switch with 5 time selection discs, each with 6 flag pins).




- Change hours
- Change minutes
- confirm

Rate time (max. 255 min)



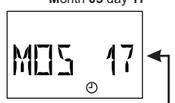

- Change nominal value
- confirm

Switch-off time 1


- Change hours
- Change minutes
- confirm

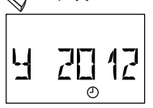
Date


- Display date **M**onth **05** day **17**




- Change day
- Change month

Display year




- Change year
- confirm

Automatic summer/winter (standard) time changeover

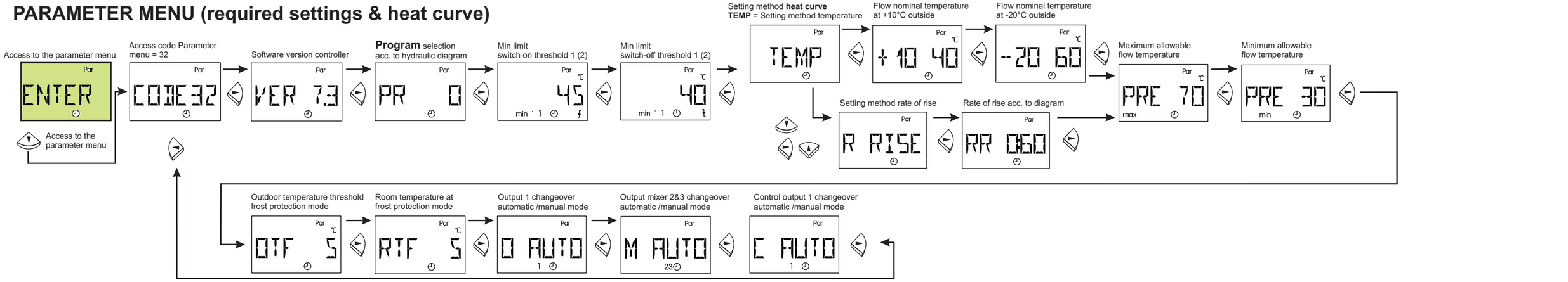



Nominal value time window 1




- Change nominal value
- confirm

# PARAMETER MENU (required settings & heat curve)




# Main menu (Mixer settings, Switch-off conditions,...)