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Operating Instruction REA23M

Commissioning and quick start



1. Remove controller from its base and open cover of the battery compartment.
2. Remove the black battery transit tab. The controller will switch itself on.
3. Close the battery compartment and replace the controller.
4. Switch on the boiler.

Selecting the operating mode



The operating mode selector enables you to select 5 different operating modes:

- Automatic operation with a maximum of 3 heating periods
- Continuously comfort mode
- Continuously economy mode
- Continuously frost protection mode
- 24-hour mode with current comfort setpoint

Changing temporarily the current setpoint temperature



20.8 °C

The change is maintained until the next switching point is reached!

1. When pressing the **+** or **-** button for the first time, the currently valid setpoint temperature will be displayed. It can be readjusted in increments of 0.2 °C (max. +/-4 °C).
2. After 3 seconds, the initial display will automatically appear again.

Changing temporarily the temperature setpoint (savings tip)



In operating modes **Auto** and **Auto**, this button can be pressed to make a manual change from comfort to economy mode, or vice versa. The change will automatically be canceled when reaching the next switching point or when selecting another operating mode.

Symbols		Burner active		Economy setpoint		1 heating period
 1...7		Error message		Setpoint frost protection		2 heating periods
 "Temperature" menu		Automatic operation		Setpoint re-remote operation		3 heating periods
 "Heating periods" menu		Continuously comfort mode		Absence setpoint	1 2 3 4 5 6 7	Current weekday
 "Absence" menu		Continuously economy mode		Actual room-temperature	1 2 3 4 5 6 7	Workingday group
 Battery change		Frost protection		Actual outside temperature (*)	1 2 3 4 5 6 7	Weekend group
 Remote operation		24-hour mode		Hot water temp. setpoint (*)	1 2 3 4 5 6 7	Entire week
 Absence		Comfort setpoint		Actual boiler water temp. (*)	1 2 3 4 5 6 7	Time schedule
				Relative modulation level in % (*)	1 2 3 4 5 6 7	

(*) Display only possible if these values are provided by the boiler.

Functions of the ESC-button the setting knob and the OK-button

ESC

ESC-button

Press the ESC-button to return to the menu level previously activated or to leave the menu level in a number of steps until you reach the initial display (the settings currently displayed will be accepted).

OK

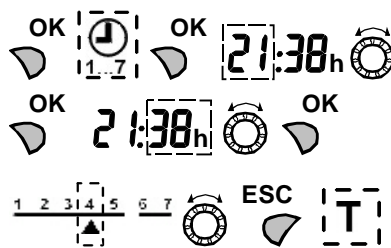
OK-button:

- You access the menu level
- You activate the menu
- You save the inputs
- You switch to the next menu item
- You accept the menu item

Setting knob:

- Setting knob is operative in menu levels only !
- You go from one menu to the next
- You change the setting variables (temperature in increments of 0.2 °C, time in increments of hours and minutes)
- You select predefined functions

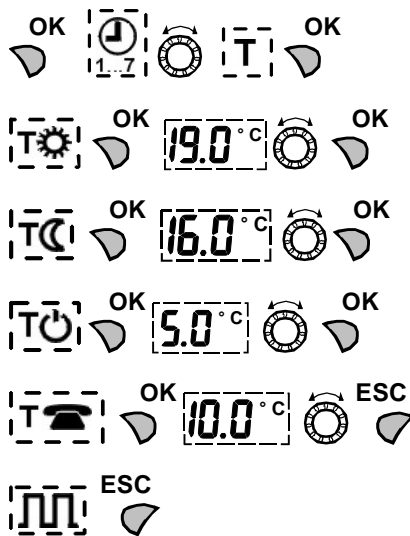
Setting the time of day and the weekday



1. OK-button: You access the menu level; the clock flashes.
2. OK-button: You accept the menu; the hours flash.
3. Setting knob: Set the current hour.
4. OK-button: You save the input; the minutes flash.
5. Setting knob: Set the current minute.
6. OK-button: You save the input; the weekday flashes.
7. Setting knob: Select the current weekday.
8. Press the ESC-button to return to the menu level: the T menu flashes

(Change not necessarily required; press the ESC-button again to return to the initial display.)

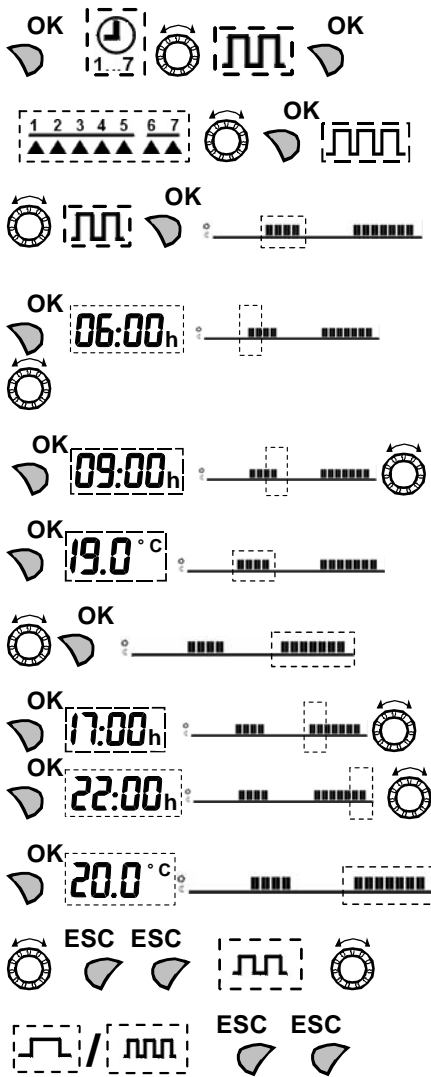
Changing temperatures long-term



1. OK-button: You access the menu level the clock flashes.
2. Setting knob: Clockwise to the T menu.
3. OK-button: You accept the menu; symbol flashes.
4. OK-button: You accept ; the setpoint flashes.
5. Setting knob: Set the comfort temperature
6. OK-button: You save the input; symbol flashes.
7. OK-button: You accept ; the setpoint flashes.
8. Setting knob: Set the economy temperature.
9. OK-button: You save the input; symbol flashes.
10. OK-button: You accept ; the setpoint flashes.
11. Setting knob: Set the frost protection temperature.
12. OK-button: You save the input; symbol flashes.
13. OK-button: You accept ; the setpoint flashes.
14. Setting knob: Set the temperature setpoint while remote operation is active.
15. Press the ESC-button to return to the menu level: The heating periods menu flashes

(Change not necessarily required; press the ESC-button again to return to the initial display.)

Settings for automatic operation with 2 heating periods



If no button is pressed for 20 seconds, the setting displayed will be accepted and the initial display will appear again.

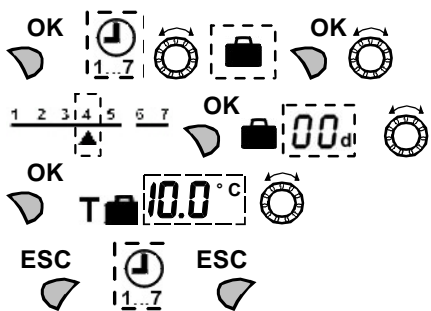
1. OK-button: You access the menu level; the clock flashes.
2. Setting knob: Clockwise to menu, flashes.
3. OK-button: You accept the menu; the day selection symbol flashes.
4. Setting knob: Select the days, the working days, the weekend or the week.
5. OK-button: You save the selection made; heating period flashes.
6. Setting knob: Counterclockwise to .
7. OK-button: Accept ; heating period 1 flashes.
7. OK-button: You accept heating period 1; start time of heating period 1 flashes.
9. Setting knob: Set the start time of comfort period 1.
10. OK-button: You save the input; end time of heating period 1 flashes.
11. Setting knob: Set the end time of comfort period 1.
12. OK-button: You save the input; setpoint of heating period 1 flashes.
13. Setting knob: Set the setpoint of comfort period 1.
14. OK-button: You save the input; heating period 2 flashes.
15. OK-button: You accept heating period 2; start time of heating period 2 flashes.
16. Setting knob: Set the start time of comfort period 2.
17. OK-button: You save the input; end time of heating period 2 flashes.
18. Setting knob: Set the end time of comfort period 2.
19. OK-button: You save the input; setpoint of heating period 2 flashes.
20. Setting knob: Set the setpoint of heating period 2.
21. Press the ESC-button to return to the comfort periods menu: Menu item comfort periods flashes.
22. Setting knob: To menu item or heating periods

(Change not necessarily required; press the ESC-button several times to leave the menu level in several steps, thus returning to the initial display.)

Settings for automatic operation with 1 or 3 heating periods

The procedure to be followed is the same as that for automatic operation with 2 heating periods. The only difference being that, in addition, a setpoint for heating periods 3 can be entered (standard setting 21 °C)

Absence / holidays



If no button is pressed for 20 seconds, the setting displayed will be accepted and the initial display will appear again.

1. OK-button: You access the menu level; the clock flashes.
2. Setting knob: To menu flashes.
3. OK-button: Accept symbol flashes.
4. Setting knob: Set the start (weekday) of your absence.
5. OK-button: You save the input; the number of days flash.
6. Setting knob: Set the duration of your absence; number of days (max. 99 days)
7. OK-button: You save the input; setpoint flashes.
8. Setting knob: Set the temperature.
9. Press the ESC-button to return to the menu level; the clock flashes.

(Change not necessarily required; press the ESC-button again to return to the initial display.)

24-hour operation

24-hour operation with only one heating period (the heating period will automatically be generated from the current 24-hour program).

Start of the first heating period, end of the last heating period, plus the currently adjusted comfort temperature setpoint.

Retrieving the default values

Press the button behind the small opening for at least one second, thus resetting the user-specific and the "Permanent-self-learning operating mode" as well as display of flow temperature, outside temperature and d.h.w. setpoint to their default values (the heating engineer settings will not be changed).

The clock starts at 12:00.

When making a reset, all display fields will light up.

Caution: If the controller is removed from its base for more than 60 seconds, an error message will appear on the display.

When sliding the controller back to its base, the error message must disappear after 2 minutes at the latest.

Without inserted batteries, reset functions correctly for a maximum of 15 seconds only after removing REA23M from its base.

Default values Factory settings for heating

Operating mode			
Start of continuous operation	00:00	00:00	00:00
End of continuous operations	24:00	24:00	24:00
Setpoint of comfort mode	19 °C		
Setpoint of economy mode		16 °C	
Setpoint frost protection			5 °C
Setpoint remote operation	10 °C		
Setpoint absence	12 °C		
Operating mode	Auto		
Selected periods			
Start of period 1	07:00	06:00	06:00
End of period 1	23:00	08:00	08:00
Start of period 2		17:00	11:00
End of period 2		22:00	13:00
Start of period 3			17:00
End of period 3			22:00
Setpoint of period 1	19 °C	19 °C	19 °C
Setpoint of period 2		20 °C	20 °C
Setpoint of period 3			21 °C
Setpoints and	see above		

Changing the batteries 2 Alkaline batteries type AA 1.5 v

When this symbol appears, the batteries must be replaced within 3 months.

1. Remove controller from its base.
2. Open battery compartment at the rear and replace the batteries.
3. Close battery compartment and replace the controller.

Note:

When changing the batteries, the current data are maintained for a **maximum of one minute**.