



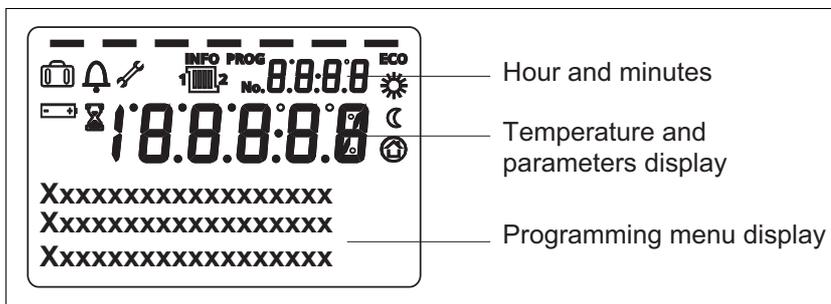
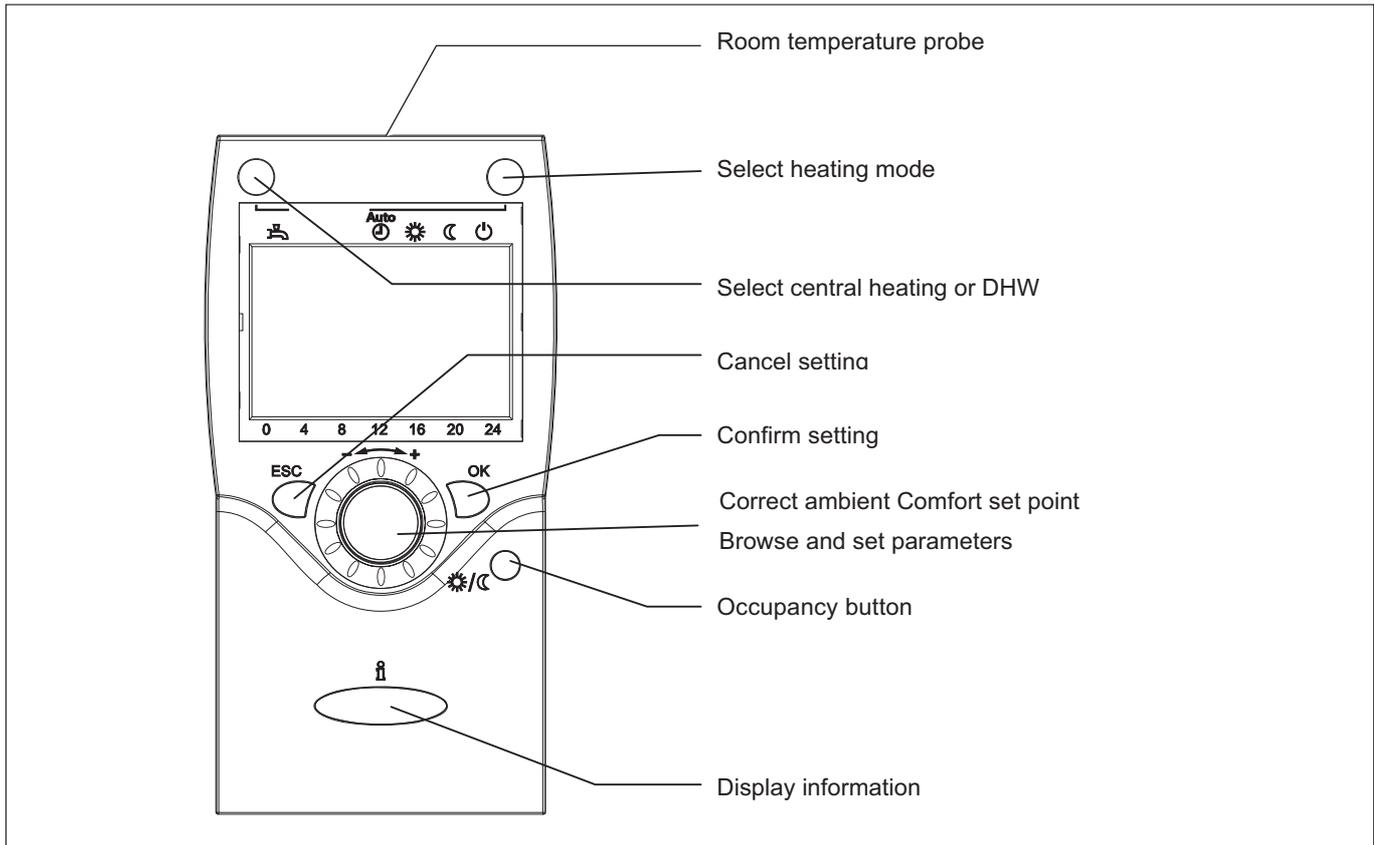
GB

High temperature air/water heat pump for heating water up to 65°C and operation with outside temperatures down to -20°C.
Domestic hot water production and built-in water circuit assembly.

r HFC
R-407c

AW HT
0031÷0061

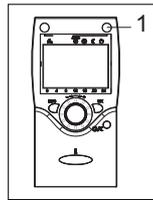
BUTTONS



Display	
☀	Heating to Comfort set point
☾	Heating to reduced set point
⊖	Heating to frost protection set point
⌚	Process in progress - please wait
🔋	Replace battery
🏠	Vacation function active
🔧	Reference to heating circuit
🔧	Maintenance / Special functions
🔔	Error messages
INFO	Info level active
PROG	Programming level activated
ECO	Heating temporarily OFF - ECO function active

Select heating operating modes

Repeatedly pressing button 1 selects the different heating operating modes:

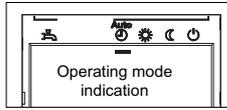


Automatic heating mode 

Automatic operation controls the room temperature based on the set time program.

Characteristics of automatic operation:

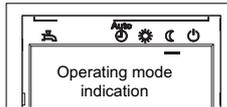
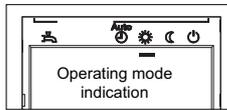
- Characteristics of automatic operation:
- Heating mode based on the time program.
- Temperature set point according to the “Comfort set point” or “Reduced set point” program
- Protection functions active.
- Summer / winter switching (ECO functions) and 24 hour heating limit not active.



Continuous operation  or 

Continuous operation keeps the room temperature constant at the selected level.

	Heating to daytime room temperature setting
	Heating to reduced room temperature setting



Characteristics of continuous operation:

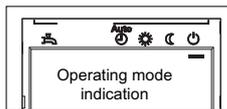
- Heating without considering the time program.
- Protection functions active.
- Summer / winter switching (ECO functions) and 24 hour heating limit not active, for continuous operation with Comfort set point.

Protection mode 

In Protection mode, the heating system is not active.

However the frost protection function is guaranteed (frost protection temperature), as long as the power supply is connected.

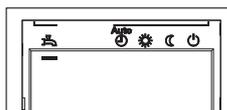
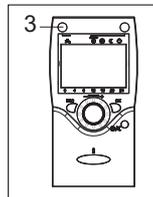
On the display the operating mode is indicated by a line under the corresponding symbol.



Select domestic hot water mode (DHW) 

Operating mode only available only if the three way selector valve is installed as an accessory outside of the unit.

Pressing button 3  starts and stops domestic hot water production.



DHW mode

- Active (indicator shown under the  symbol) Domestic water is heated based on the selected operating program.
- Not active (no indicator shown under the  symbol). No domestic water is heated; the frost protection function is active.

Push DHW

This is activated by pressing the DHW mode button  for at least three seconds.

This manually activates the production of domestic hot water only. Activating this function starts the heat pump in DHW mode until reaching the DHW set point, and cannot be deactivated.

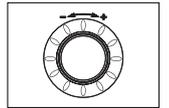
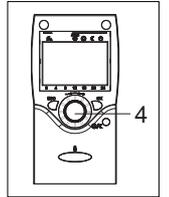
Room temperature control

Knob 4 is used to control the desired room temperature.

Temperature correction in Heating mode:
For the **Comfort set point**  select the temperature value by turning the knob and confirming by pressing OK.

For the **Reduced set point** 

- Press OK.
- Select the “Heating circuit” page
- Set the “Reduced set point” parameter 712.



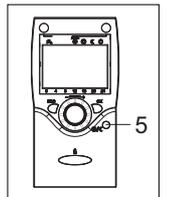
After having made the settings, wait at least 2 hours to allow the desired room temperature to be reached.

Occupancy button (extended absence) /

If the rooms are not used for long periods, the room temperature can be reduced by pressing the occupancy button 5, thus saving energy.

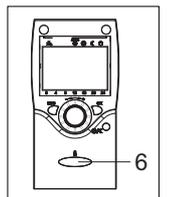
When the rooms are used again, pressing the pressing the occupancy button 5 returns the room temperature to the set value.

- The occupancy button is only enabled in automatic operation.
- The setting remains active until the heating program is next changed.



Information button 

The information button 6 displays different types of information, as described in this manual, such as temperature, heat pump operating status and errors.



In exceptional situations, the display shows the following symbols:

 Error warning

This symbol indicates an error in the system.

Press the information button and read the additional information shown on the display. Follow the instructions described in the paragraph “Maintenance and Service”.

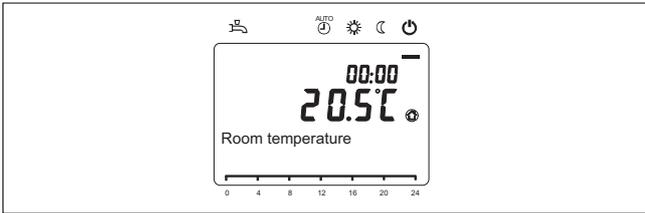
 Maintenance warning

This symbol indicates the need for maintenance or a special operating mode.

Press the information button and read the additional information shown on the display.

Follow the instructions described in the paragraph “Maintenance and Service”.

The settings that are not available directly using the buttons are managed in programming mode. The individual settings are arranged into operating pages and rows and are divided into levels, "Enduser and Engineer", so as to allow access only to specific groups of parameters. The "OEM" level is protected against accidental modifications by a password.



The main screen shown in the figure is the starting point for all the settings.

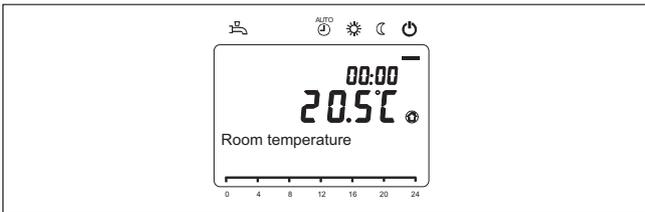
ENDUSER level.

The procedure described below is used to access the operating pages in the "Enduser Level" and set the corresponding group of parameters.

Below is an example of the procedure used to set the language. The same procedure is valid for displaying and setting all the Enduser level parameters.

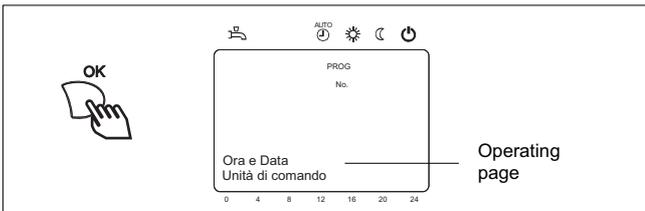
1. Main display

If the main display is not shown, press ESC.



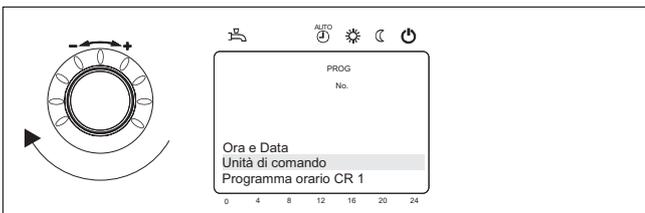
2. Press OK

The operating pages are shown at the bottom of the display.



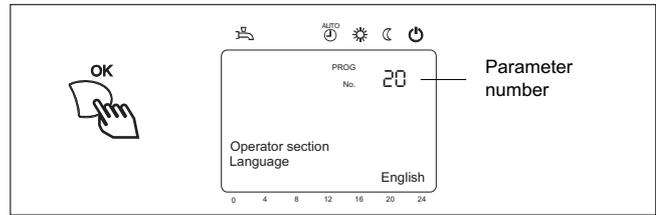
3. Turn the knob and select the desired operating page.

For example Operator section.



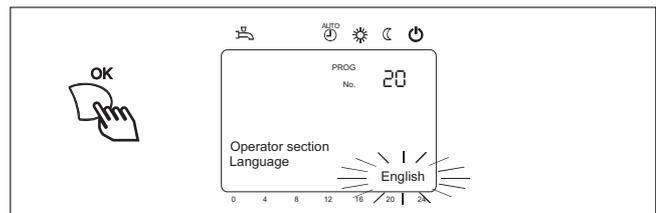
4. Press OK to confirm.

In this example the bottom of the display shows the first row "language" and at the top right the parameter number, "20".



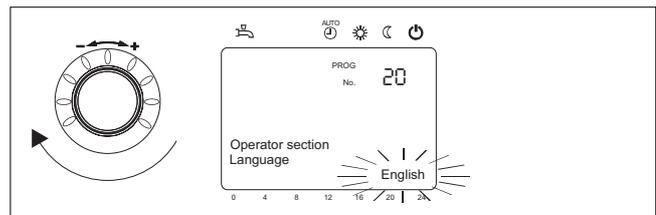
5. Press OK to set the parameter.

The display shows the value flashing, in the example "Italian".



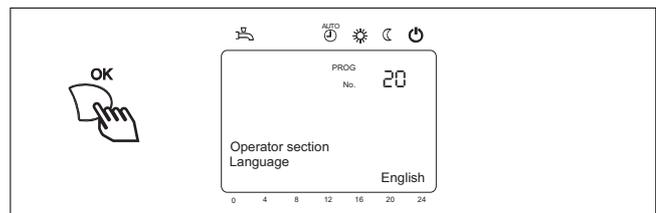
6. Turn the knob and select the desired value of the parameter.

For example, "English".



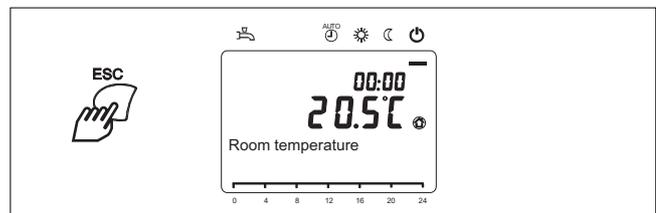
7. Press OK to confirm.

The settings have been saved. The display stops flashing.

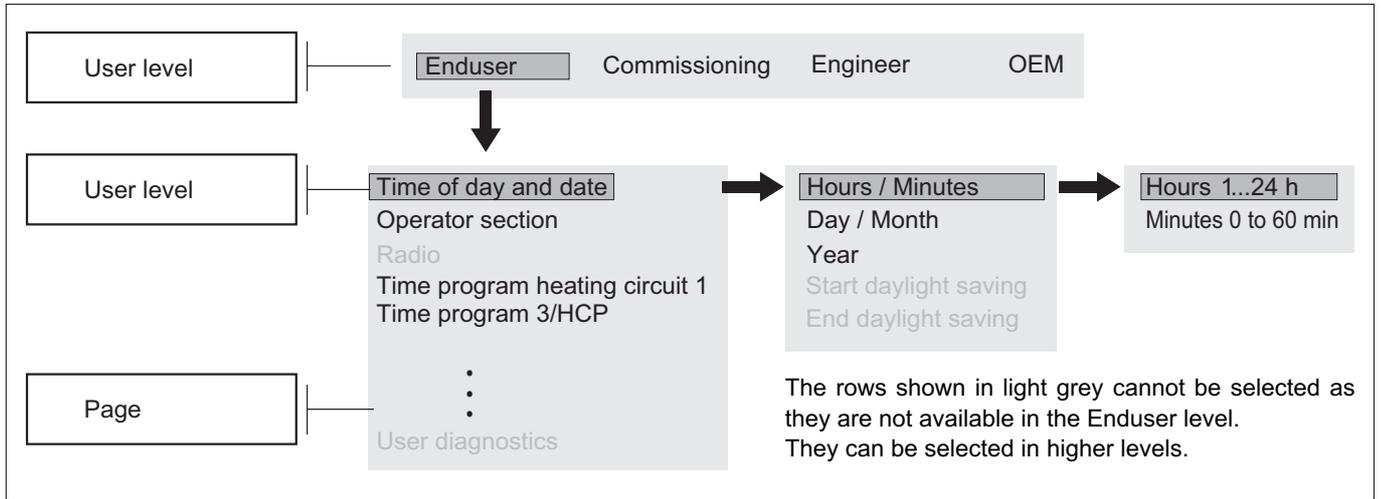


8. Either continue setting other parameters or press ESC

once to access other operating pages twice to return to the main display.



Example of subdivision into Enduser levels, operating pages and rows:



SETTING THE TIME AND DATE

The controller is fitted with a clock that manages the hour, minutes, month, day of the week and year. To ensure correct operation of the controller, the time and date must be set correctly.

Parameters contained on the TIME OF DAY AND DATE operating page		(Enduser level)
Parameter number	Screen displayed	Description
1		Hour and minutes setting
3		Year setting

AUTOMATIC DAYLIGHT SAVING CHANGEOVER

Parameters contained on the TIME OF DAY AND DATE operating page		(Engineer level)
Parameter number	Screen displayed	Description
5		<p>Setting the start of the summer period ensures automatic changeover of the time.</p> <p>On the first Saturday following to the date set, the time changes from 02:00 (winter) to 03:00 (summer).</p> <p>Default setting: Day 25 Month 03</p>
6		<p>Setting the end of the summer period ensures automatic changeover of the time.</p> <p>On the first Saturday following to the date set, the time changes from 03:00 (summer) to 02:00 (winter).</p> <p>Default setting Day 25 Month 10</p>

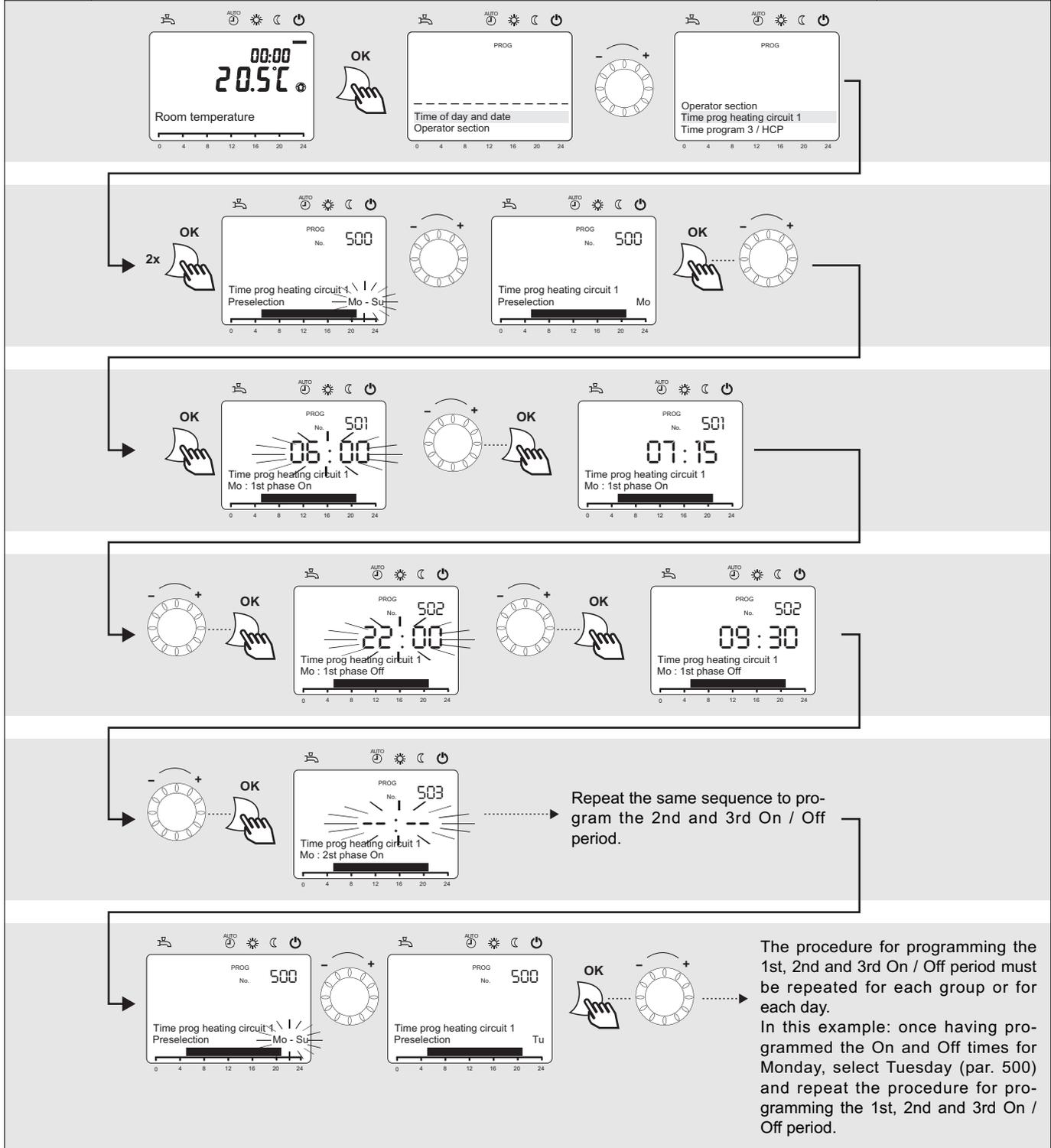
LANGUAGE SETTING

Parameters contained on the OPERATOR SECTION operating page		(Enduser level)
Parameter number	Screen displayed	Description
20		<p>The following languages can be selected:</p> <ul style="list-style-type: none"> German English French Italian <p>Default setting: Italian</p>

TIME BAND PROGRAMMING

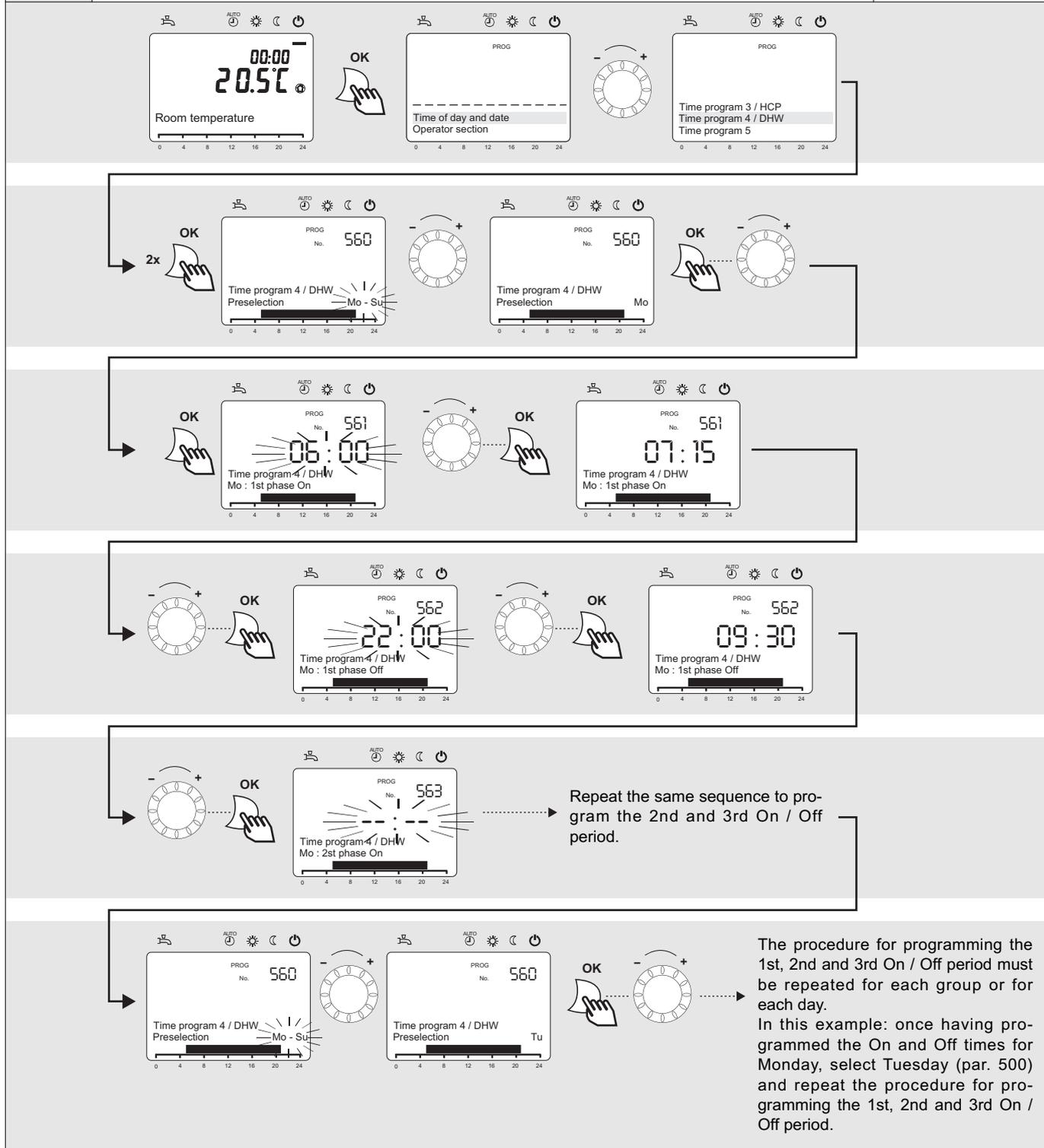
Time prog heating circuit 1

Parameters contained on the TIME PROG HEATING CIRCUIT 1 operating page		(Enduser level)
Parameter number	Description	Default setting
500	The controller manages the heating circuit based on the time and the day of the week. The on and off times can be selected in groups, that is, common for a group of days, or individually, different for each day. The presetting of the days into groups, for example Mon to Fri and Sat-Sun simplifies the time band settings. Groups: Mon-Sun; Mon-Fri; Sat-Sun; Individual: Mon, Tue, Wed, Thu, Fri, Sat, Sun	Mon – Sun
501	1st On Time	6:00 (h:min)
502	1st Off Time	22:00 (h:min)
503	2nd On Time	--:-- (h:min)
504	2nd Off Time	--:-- (h:min)
505	3rd On Time	--:-- (h:min)
506	3rd Off Time	--:-- (h:min)
516	The time programs can be reset to the original values (default setting).	Yes or no



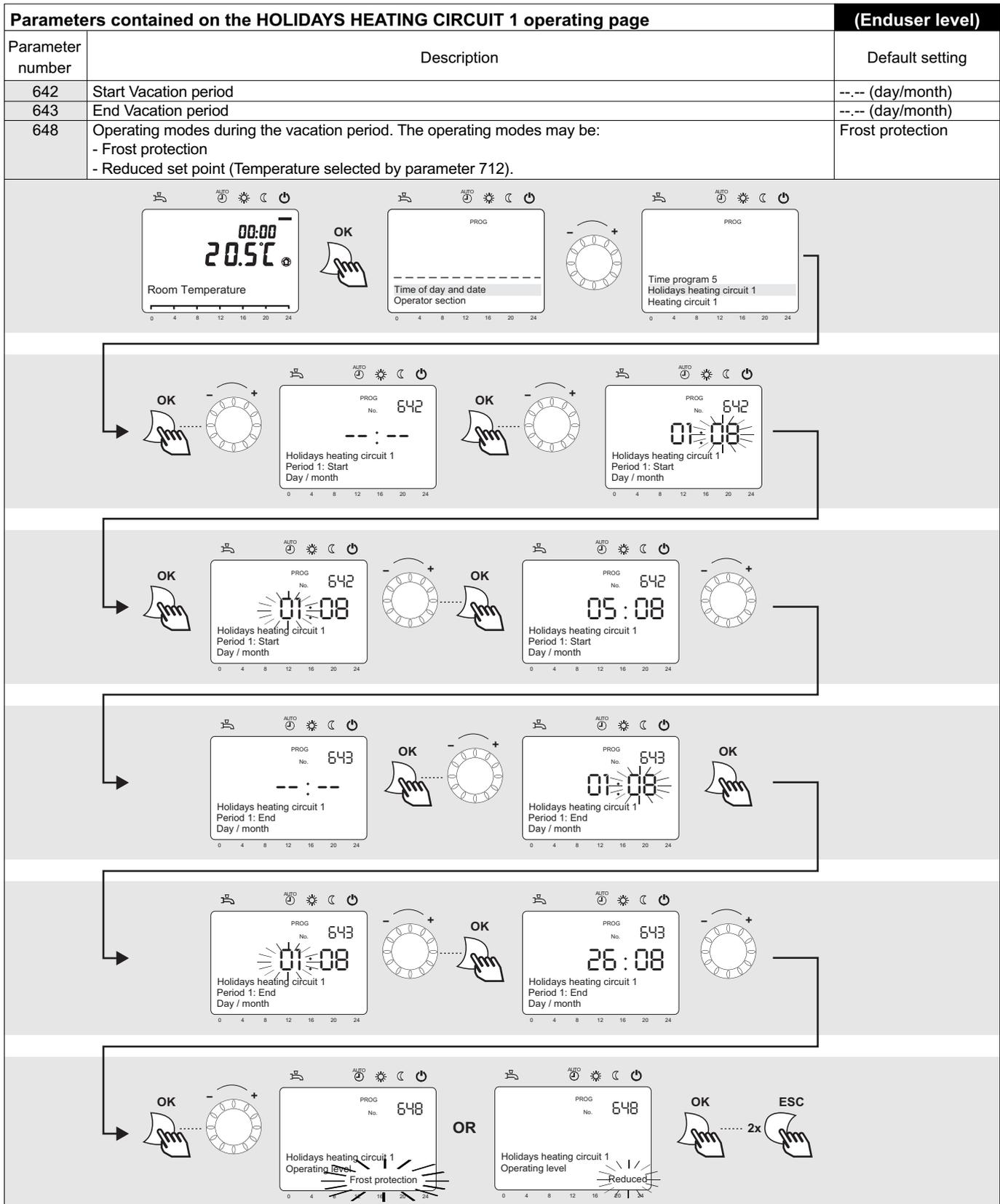
Time program 4/DHW (domestic hot water production)

Parameters contained on the TIME PROGRAM 4/DHW operating page		(Enduser level)
Parameter number	Description	Default setting
560	The controller manages domestic hot water production based on the time and the day of the week. The on and off times can be selected in groups, that is, common for a group of days, or individually, different for each day. The presetting of the days into groups, for example Mon to Fri and Sat-Sun simplifies the time band settings. Groups: Mon-Sun; Mon-Fri; Sat-Sun; Individual: Mon, Tue, Wed, Thu, Fri, Sat, Sun	Mon – Sun
561	1st On Time	6:00 (h:min)
562	1st Off Time	22:00 (h:min)
563	2nd On Time	--:-- (h:min)
564	2nd Off Time	--:-- (h:min)
565	3rd On Time	--:-- (h:min)
566	3rd Off Time	--:-- (h:min)
576	The time programs can be reset to the original values (default setting).	Yes or no



Holidays program

The holidays program can only be used in "Automatic" mode



DHW set point control and time program

The vacation program can only be used in "Automatic" mode

Parameters contained on the DHW operating page		(Enduser level)
Parameter number	Description	Default setting
1610	Select DHW set point To set the desired temperature of the domestic hot water inside the storage cylinder, change the value of parameter 1610, as described below.	1610 = 55

USEFUL INFORMATION

For information on technical assistance and obtaining spare parts, contact:

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