

USER'S MANUAL

**Instructions and  
recommendations** **IE**  
Installer  
Maintenance technician

\*1.041994ENG\*



 **IMMERGAS**

**HSCP**

Control panel



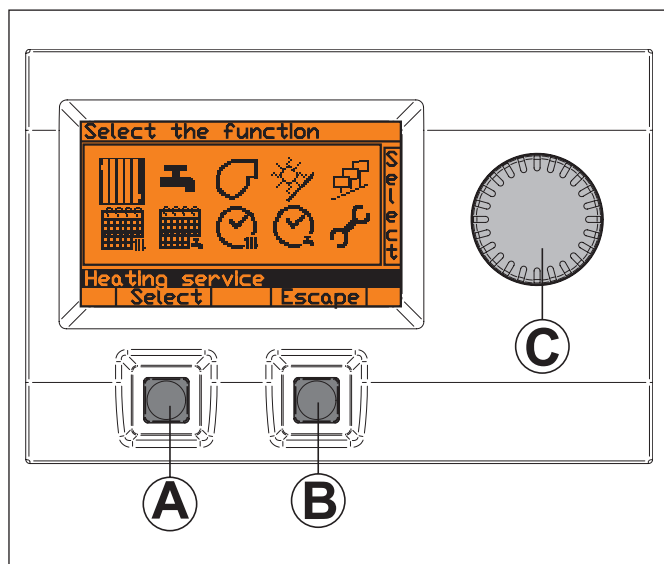
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# 1 INSTRUCTIONS FOR USE

## 1.1 CONTROL PANEL

### 1.1.1 CONTROL UNIT

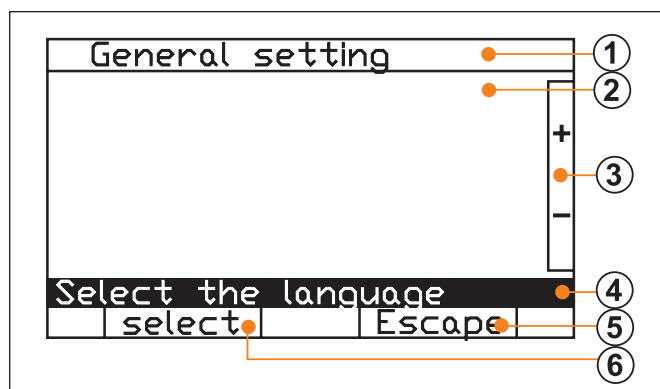


The control unit has a large display, two buttons (A and B) and a knob C.

<b>A</b>	Key
<b>B</b>	Key
<b>C</b>	Knob

In general, the buttons and the knob are accompanied by a label that specifies the functionality in each individual state of use of the appliance.

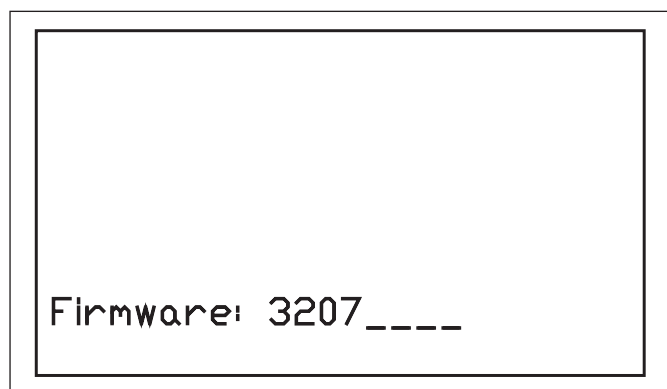
### 1.1.2 DISPLAY



<b>1</b>	Title line of the selected menu
<b>2</b>	Function display area
<b>3</b>	Knob label
<b>4</b>	HELP line (*)
<b>5</b>	Button A label
<b>6</b>	Button B label

(\*) always highlighted, which provides information on the symbols or fields selected with the knob.

## 1.1.3 IGNITION

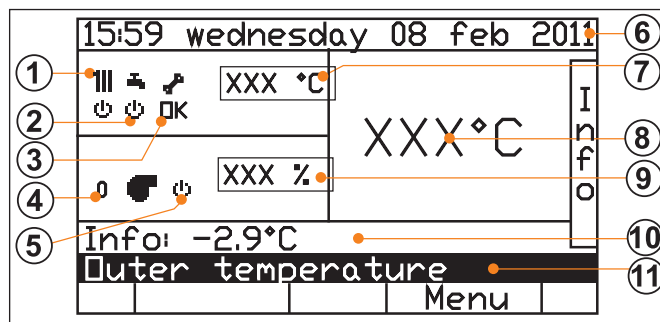


When the device is switched on, a power-on screen appears for a few seconds, showing:

- the software code and any revision.

## 1.1.4 THE HOME SCREEN

It automatically switches to the next screen that contains the active information:



<b>Knob C functions</b>	Scrolls and Displays the “More Information” (Info) in the Help Line.
<b>Key A functions</b>	Allows Reset in case of an Alarm
<b>Key B functions</b>	Accesses the Functions Menu

Key of the symbols:

SYMBOL	DESCRIPTION
	Status: On
	Status: Standby
	Status: Active

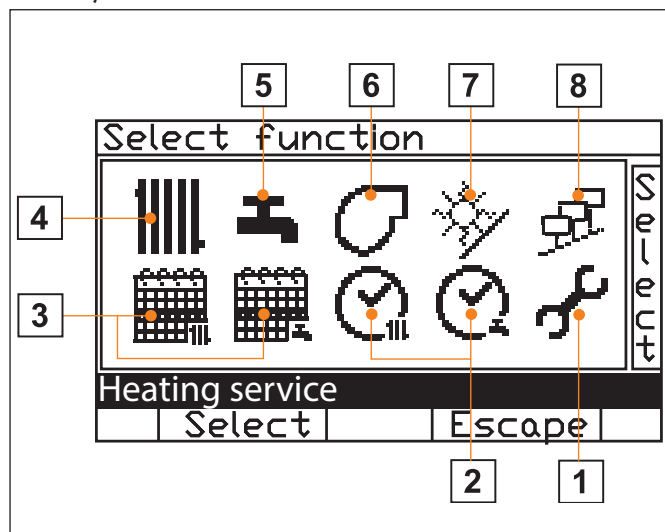
In case of an Alarm:

SYMBOL	DESCRIPTION
	- info: error code. - help line: description of the error and indication of the device in alarm. - left button label: “reset”.

1	Central heating status
2	Domestic hot water status
3	Fault warning
4	Number of active burners
5	Status of the burner of the integration generator
6	Time and Date
7	Primary temperature required (solar/generator integration)
8	Flow temperature of the integration generator
9	Level of modulation of the integration generator
10	Other Information
11	Description of the Information: - Module T. - External T. - Room T. - Pressure - Return T.

### 1.1.5 MAIN MENU

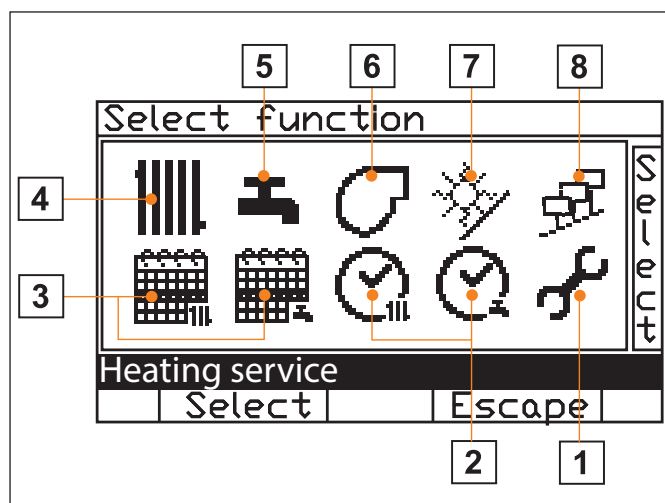
Press **Key B** to access the main menu "Select Function".



1	<b>General settings</b> <ul style="list-style-type: none"> <li>-Setting of today's date</li> <li>-Setting of the current date</li> <li>-Central heating parameters</li> <li>-Setting of the reduced DHW temperature</li> <li>-Entering the password</li> <li>-Setting of the contrast of the display</li> <li>-Indication of the modbus address</li> <li>-National settings</li> </ul>
2	<b>Definition of the daily programs</b> <ul style="list-style-type: none"> <li>- Central heating and domestic hot water</li> <li>- Selection of the daily program to Display and/or change</li> <li>- Display of the selected daily Program</li> <li>- Change of name of the Selected daily program</li> <li>- Setting of the data of the Selected daily program Definition</li> </ul>
3	<b>Definition of the weekly programs</b> <ul style="list-style-type: none"> <li>- Central heating and domestic hot water</li> <li>- Selection of the weekly program to Display and/or change</li> <li>- Display of the selected weekly Program</li> <li>- Change of the name of the Selected weekly program</li> <li>- Assigning of the daily programs To the single days of the week</li> </ul>
4	<b>Central heating services</b> <ul style="list-style-type: none"> <li>-Display of the current status</li> <li>-Assigning of the Weekly program</li> <li>-ECO program</li> <li>-Comfort program</li> <li>-Manual temporary programming (temperature and time)</li> <li>-Selection of the circuit</li> <li>-Setting of the parameters of the selected circuit</li> </ul>

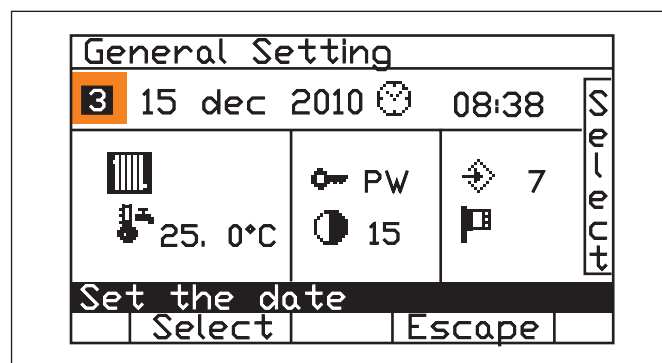
5	<b>DHW</b> <ul style="list-style-type: none"> <li>-Display of the current status</li> <li>- Assigning of the weekly program</li> <li>- Manual temporary programming (temperature and time)</li> </ul> <p>Note: The function is only active if a domestic hot water service is present in the system.</p>
6	<b>Generator control</b> <ul style="list-style-type: none"> <li>- Display of the current status of the Generator</li> <li>- Display of the current status of the Burners</li> <li>- Setting of the parameters of the heat generator</li> <li>- Setting of the parameters of the individual burners</li> <li>- Manual control of the individual burners</li> </ul>
7	<b>Solar storage</b> <ul style="list-style-type: none"> <li>- Display of the temperatures of the solar collector and storage</li> <li>- Display of the status of the solar energy sample</li> <li>- Manual activation of the solar pumps</li> <li>- Solar service activation/stand-by</li> </ul>
8	<b>Device management</b> <ul style="list-style-type: none"> <li>- List of control devices in the system</li> <li>- Display of the data and information concerning each device</li> <li>- Display and manage of the activity counters</li> <li>- Setting of the specific parameters of each device</li> <li>- Log of errors</li> </ul>

## 1.2 GENERAL SETTINGS



SYMBOL	DESCRIPTION	PROCEDURE
	Adjusts the time	After having pressed button A, verify the changed date and time
	Sets the date	After having pressed button A, verify the changed date and time
	Sets the parameters (*1)	After having pressed button A, verify the changed Central heating parameters
	Sets the reduced DHW temperature within the limits allowed	After having pressed button A, verify the changed numerical values
	Enters and manages the password	After having pressed button A, verify the changed texts
	Adjusts the contrast of the Display	After having pressed button a, verify the changed numerical values
	Sets the modbus address	After having pressed button A, verify the changed numerical values
	Sets the language and temperature measuring unit (Celsius or Fahrenheit scale) (*1)	After having pressed button a, verify the changed national settings

### 1.2.1 SETTING THE DATE



ROTATE	POSITION	SELECT

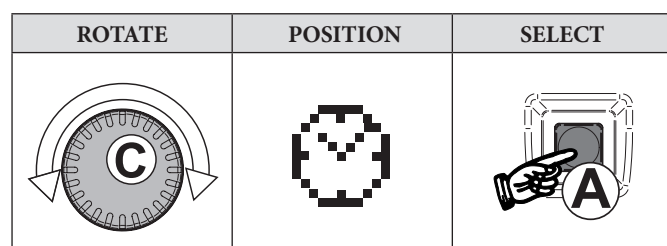
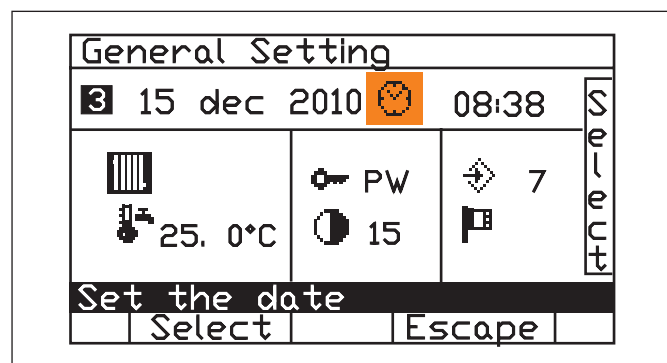
SELECT	CONFIRM	SET	CONFIRM
the current <b>DATE</b> with knob "C"	By pressing Key "A"	the current date with knob "C"	The change by pressing KEY "A"

SELECT	CONFIRM	SET	CONFIRM
the current <b>MONTH</b> with knob "C"	By pressing Key "A"	the current month with knob "C"	The change by pressing KEY "A"

SELECT	CONFIRM	SET	CONFIRM
the current <b>YEAR</b> with knob "C"	By pressing Key "A"	the current year with knob "C"	The change by pressing KEY "A"

SELECT	CONFIRM
with knob "C" <b>DAY + MONTH + YEAR</b> (all selected)	The new values by pressing Key "A"

### 1.2.2 SETTING THE TIME

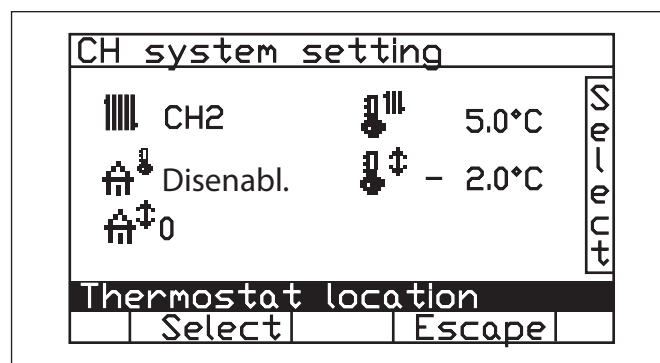


SELECT	CONFIRM	SET	CONFIRM
MINUTES with knob "C"	By pressing Key "A"	the MINUTES with knob "C"	The change by pressing KEY "A"

SELECT	CONFIRM	SET	CONFIRM
TIME of day with knob "C"	By pressing Key "A"	the current time with knob "C"	The change by pressing KEY "A"

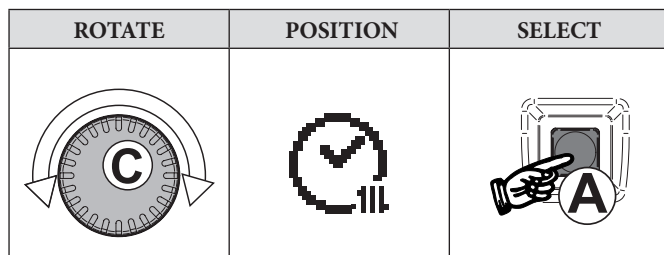
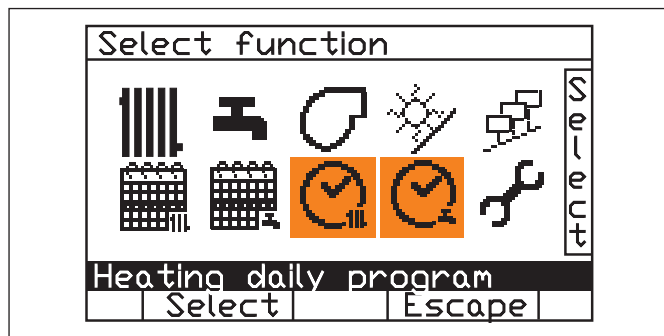
SELECT	CONFIRM
with knob "C" TIME + MINUTES (all selected)	The new values by pressing Key "A"

### 1.2.3 GENERAL SETTINGS

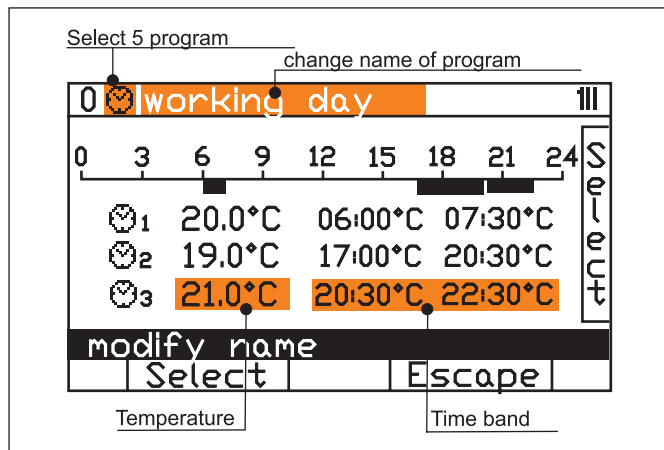


SYMBOL	DESCRIPTION	PROCEDURE
	<b>"Thermostat position"</b> Selection of the CH circuit to which to assign the function as room probe and/or room compensation.	After pressing button <b>a</b> , use knob <b>c</b> to select the central heating circuit to which the function is to be assigned. Then press button <b>a</b> to confirm.
	<b>"Room thermostat"</b> Enables/disables the function as room thermostat integrated in the console, assigning it to the selected circuit, by means of	After having pressed button <b>a</b> , verify the changed numerical values
	<b>"Room compensation"</b> 0÷20 adjustable field; 2°C will be added to the required primary temperature for every °C of error in adjustment measured by the room probe (calculated according to the temperature of the external probe)	After having pressed button <b>a</b> , use knob <b>C</b> to selected the numerical value to set. Then press button <b>a</b> to confirm.
	<b>"ECO room Temp."</b> Sets the reduced central heating temperature within the limits allowed 5÷20 °C	After having pressed button <b>a</b> , verify the changed numerical values
	<b>"Comfort Temp."</b> Sets the comfort central heating temperature at 5÷30 °C	After having pressed button <b>a</b> , verify the changed numerical values
	<b>"Room temp. Correction"</b> sets the correction to apply to the room temperature measured by the probe integrated in the console Range +5°C / - 5°C	After having pressed button <b>a</b> , verify the changed numerical values

## 1.3 DAILY PROGRAMS



SELECT	CONFIRM	SET
Central heating Daily Progr.or DHW Daily Progr.	By pressing Key "A" Enter the submenu	Use knob "C" to move to select the field to be changed

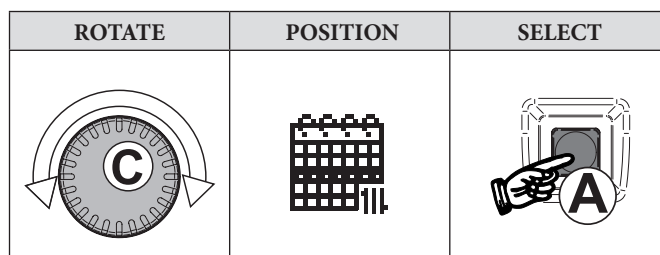
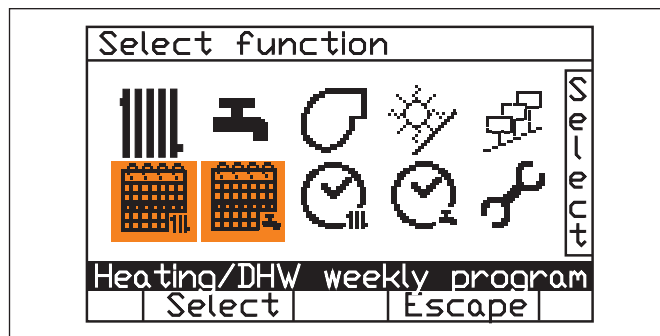


5 various "specific days" can be set and renamed (e.g. weekday, holiday, part time, etc.), and each one can have max of 3 request bands at 3 different temperatures ("room" for the **Central heating** menu or "storage tank" for the **DHW** menu).

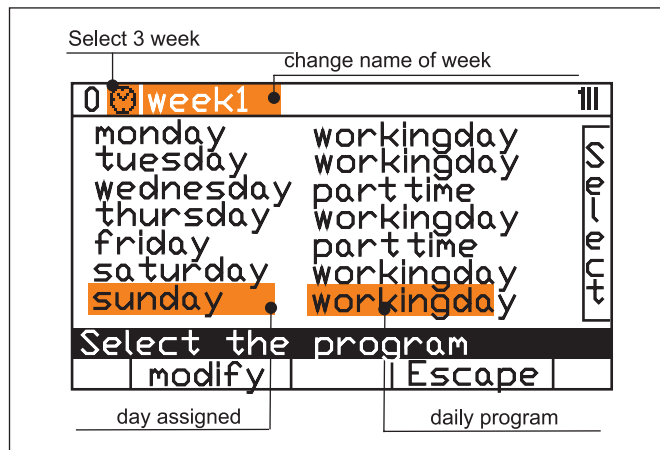
SELECT	CONFIRM	SET	CONFIRM
TEMPER- ATURES/ TIMES with knob "C"	By pressing Key "A"	TEMPER- ATURES/ TIMES with knob "C"	The change by pressing KEY "A"

Outside the bands, the temperature set as "reduction" in the General settings will be used.

## 1.4 WEEKLY PROGRAMS



SELECT	CONFIRM	SET
Central heating Weekly Progr. or DHW Weekly Progr.	By pressing Key "A" Enter the submenu	Use knob "C" to move to select the field to be changed

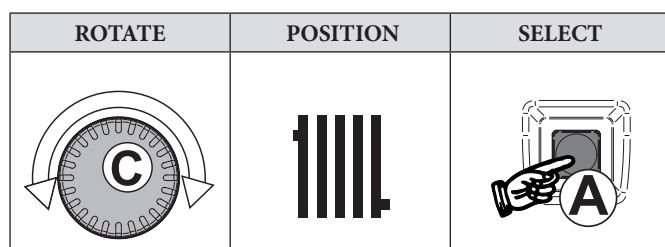
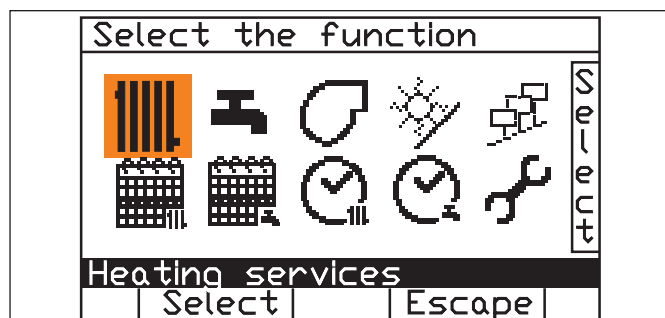


3 different "specific weeks" can be set and renamed, assigning to each day one of the previously created daily programs (see "Daily programs").

SELECT	CONFIRM	SET	CONFIRM
DAY with knob "C"	By pressing Key "A"	DAY with knob "C"	By pressing Key "A"

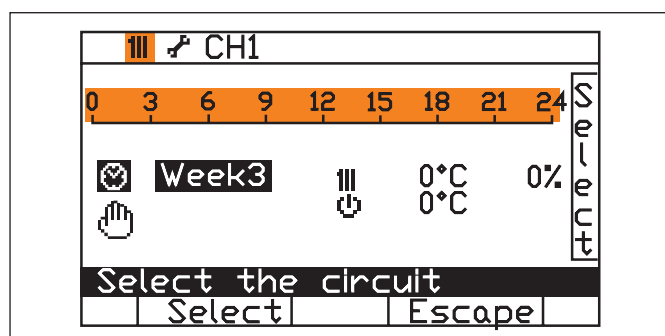


## 1.5 CENTRAL HEATING PARAMETERS



The control unit allows the operation of two renamable central heating zones:

- CH 1: mixer circuit (low temperature).
- CH 2: direct circuit (high temperature).



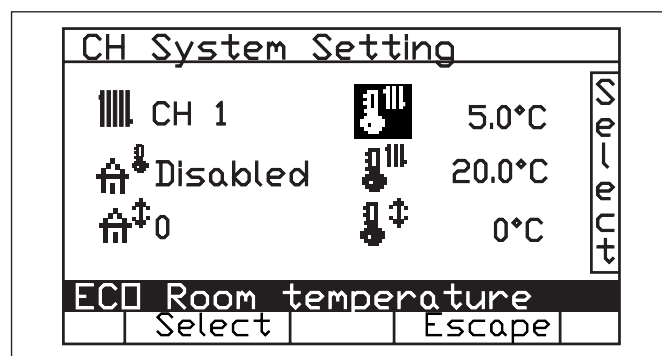
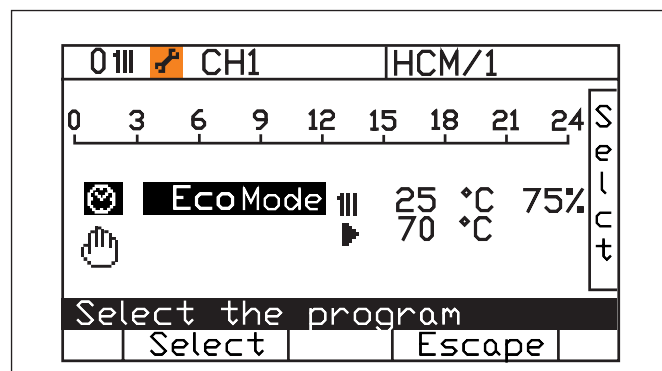
SELECT	CONFIRM	DISPLAY/MODIFY
with knob "C"	By pressing Key "A"	the settings of the corresponding circuit can be displayed and changed with knob "C".

SELECT	CONFIRM	DISPLAY/MODIFY
with knob "C"	By pressing Key "A"	one of the 3 previously set operating weeks can be combined with each circuit (see "Weekly programs").

The time bands of the current day are displayed in the upper scale.

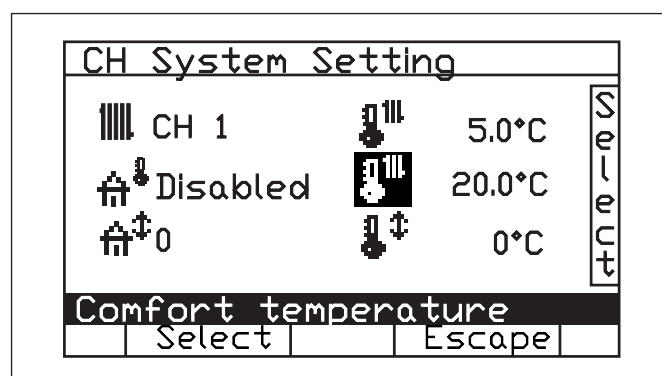
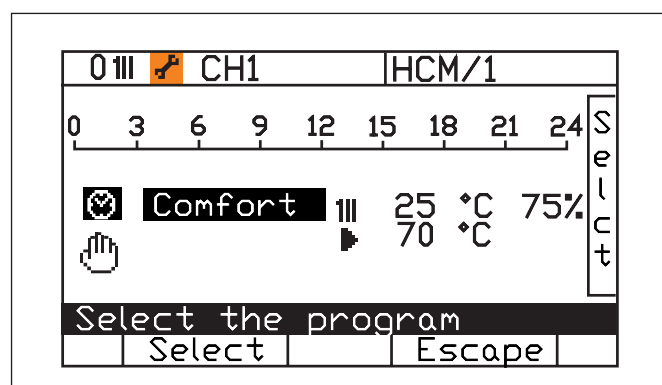
SELECT	CONFIRM	DISPLAY/MODIFY
with knob "C"	By pressing Key "A"	The ECO function is active

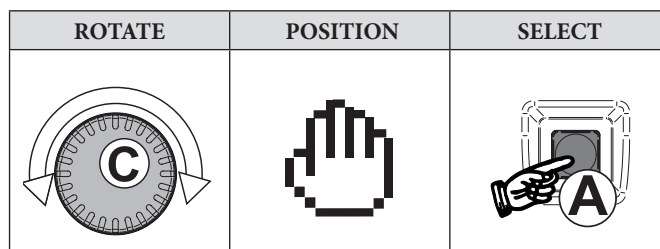
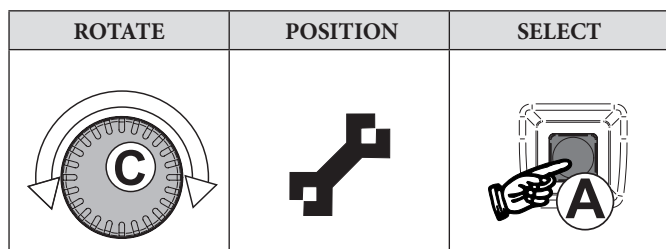
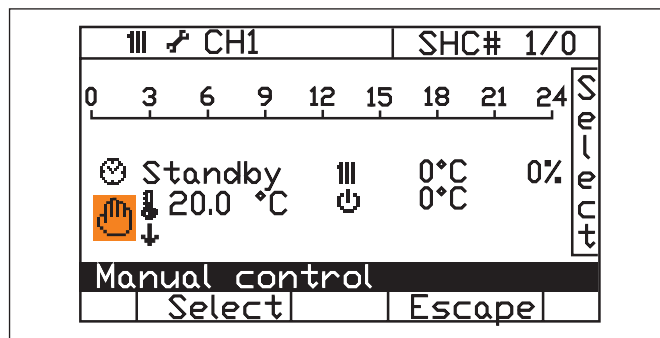
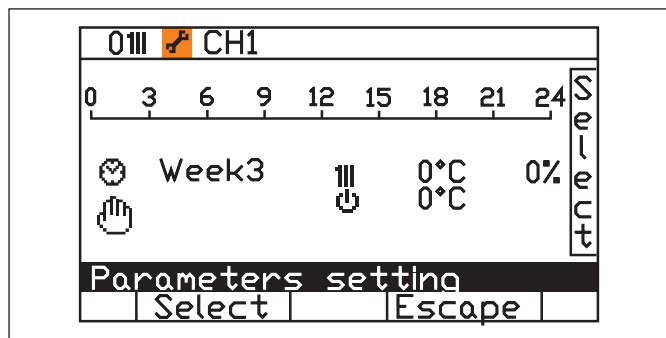
Continuous reduced temperature within the 24h.



SELECT	CONFIRM	DISPLAY/MODIFY
with knob "C"	By pressing Key "A"	The COMFORT function is active

Continuous reduced temperature within the 24h.





The desired values can be set to define the central heating operation curve.





The **manual request** function can be activated.

This feature can be used if you want to make **temporary** changes to the preset daily and weekly programming.

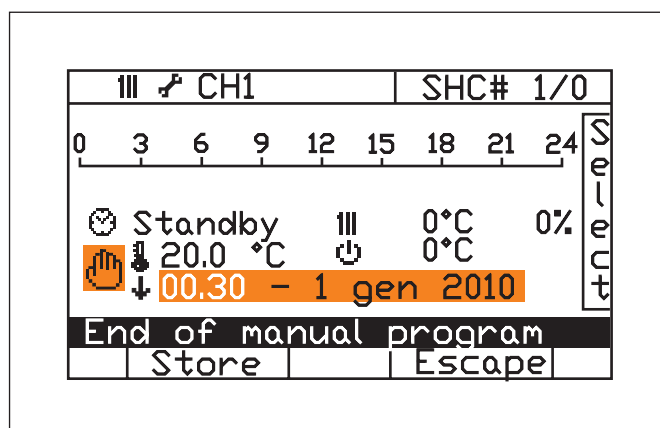
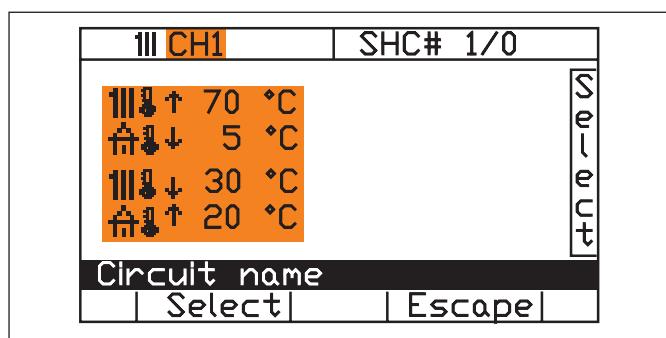
The new settings will be valid up to **the time of the indicated day**.

The manual request has **priority** on the daily/weekly programming.

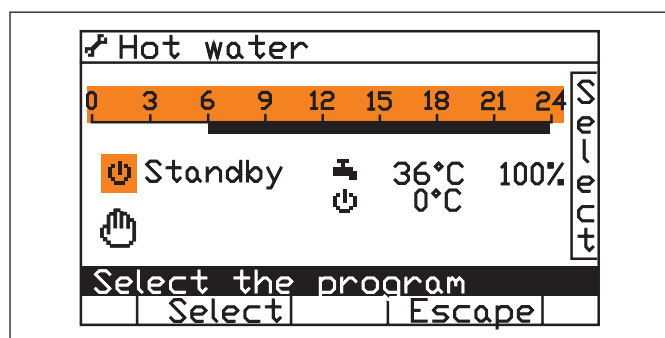
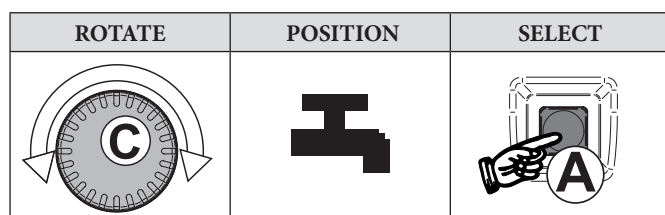
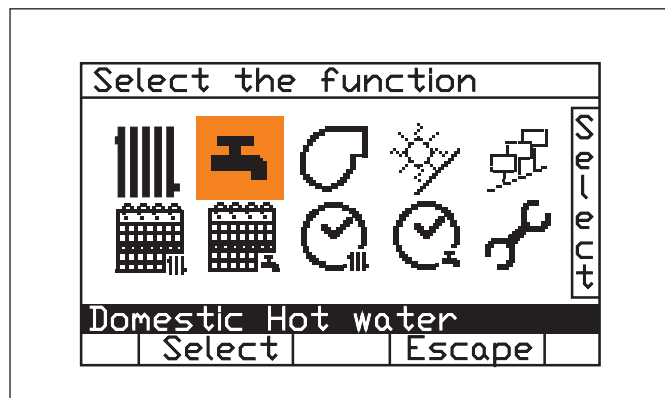
To deactivate the manual function, move to  and confirm with key A: the temperature and time display lines disappear.

	Maximum flow temperature
	Minimum flow temperature
	Minimum external temperature
	Maximum external temperature (not editable)

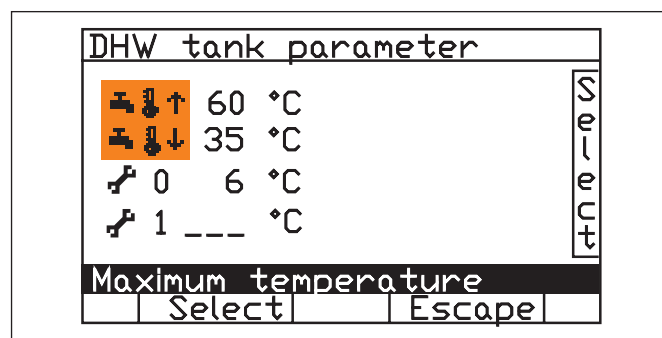
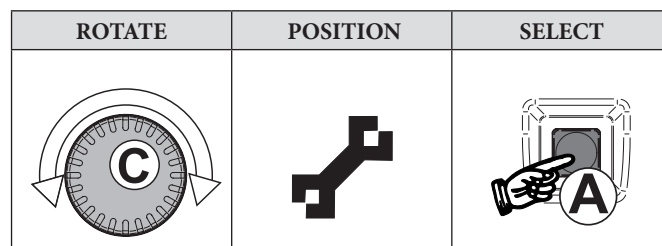
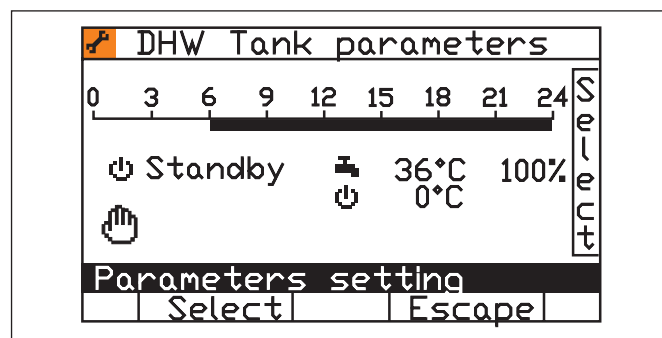
Its name can also be changed by highlighting the name of the circuit with knob C.



## 1.6 DHW PARAMETERS

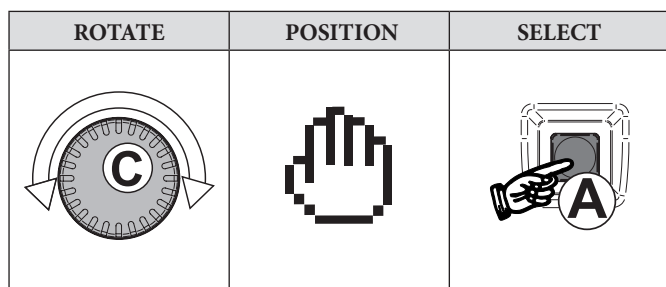
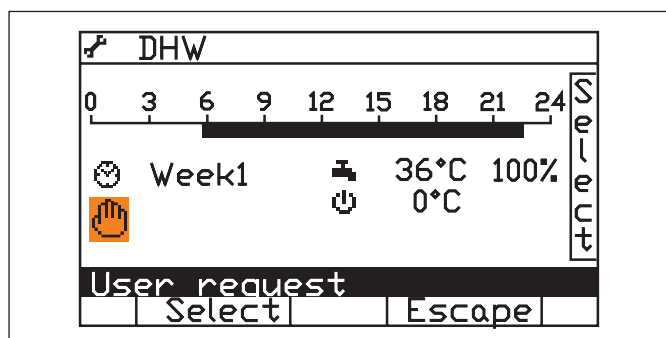


SELECT	CONFIRM	DISPLAY/MODIFY
with  knob "C"	By pressing Key "A"	One of the 3 previously set operating weeks can be combined with each circuit (see "Weekly programs").



	Domestic hot water maximum temperature
	Domestic hot water minimum temperature

The time bands of the current day are displayed in the upper scale.



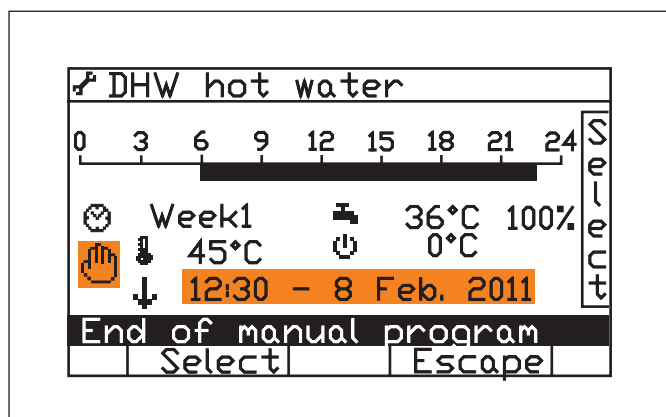
The **manual request** function can be activated.

This feature can be used if you want to make **temporary** changes to the preset daily and weekly programming.

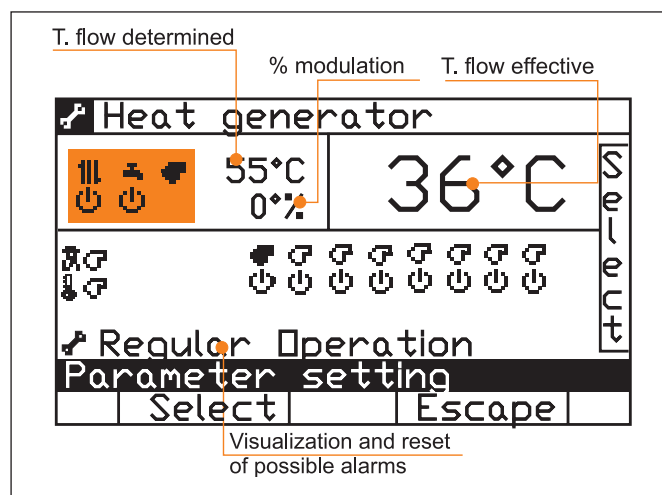
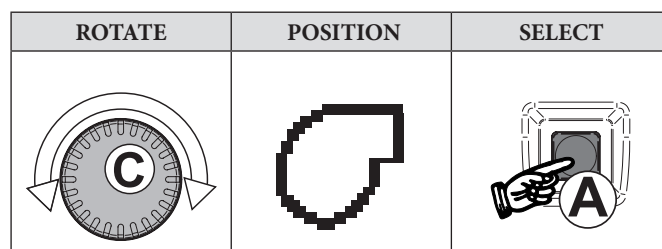
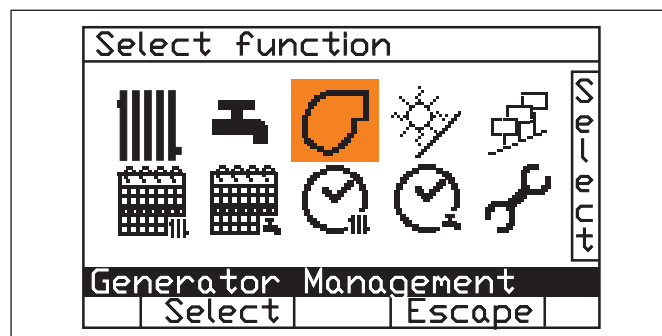
The new settings will be valid up to the **time of the indicated day**.

The manual request has **priority** on the daily/weekly programming.

To deactivate the manual function, move to  and confirm with key A: the temperature and time display lines disappear.

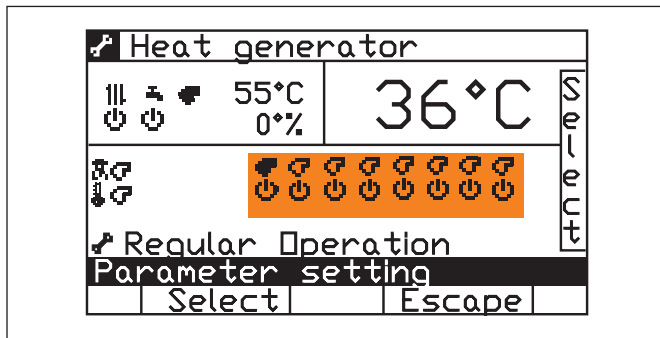


## 1.7 GENERATOR CONTROL



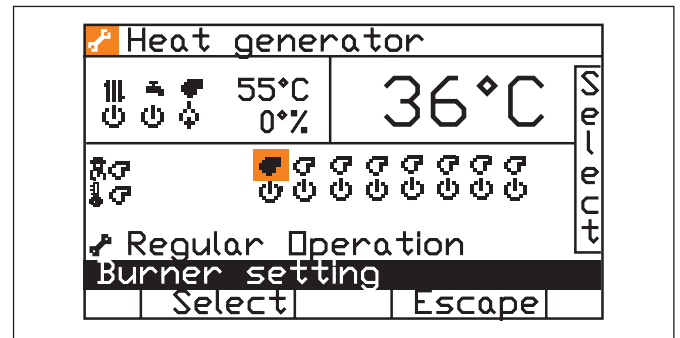
The highlighted part shows the operating status of the services (Central heating/DHW) and the generator:

	Stand-by
	Engaged
	Flame Presence
	Fault/Anomaly



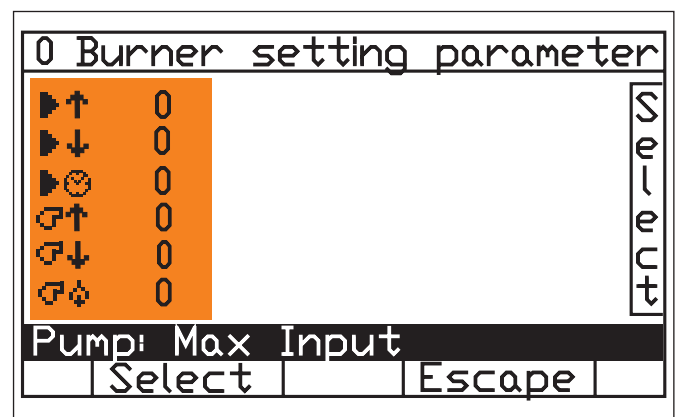
The highlighted sector shows the burners found and their operating status:

	Burner Found
	Burner not Found
	Stand-by
	Engaged
	Flame Presence
	Fault/Anomaly



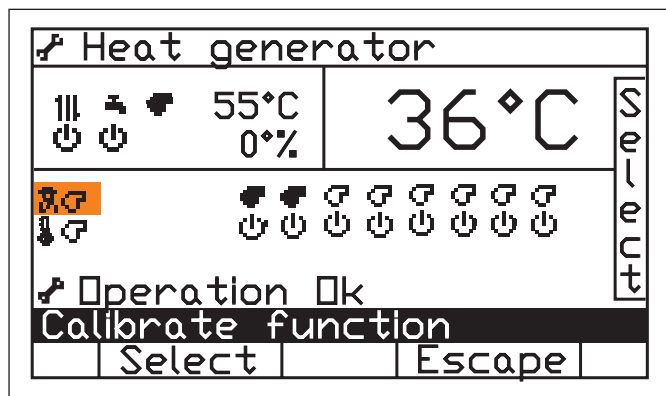
ROTATE	POSITION	SELECT

The **Generator Parameters** can be accessed (password must be entered).



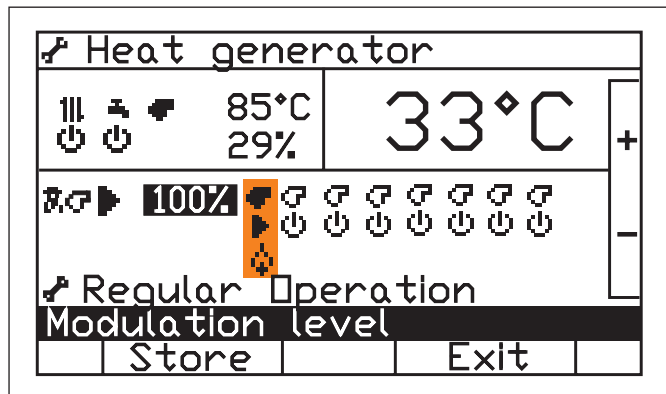
			Control (%) of the pump in line with the maximum level of the burners
			Control (%) of the pump in line with the minimum level of the burners
			Pump post-circulation time (in minutes) after the burner is switched off.
			Maximum modulation that can be reached by the burner.
			Maximum modulation that can be reached by the burner.
			Burner modulation level (percentage) during ignition.

## 1.7.1 CALIBRATION FUNCTION SELECTION



Go to with knob "C" and confirm with key A (enter the access code).

## 1.7.2 MAXIMUM/MINIMUM POWER



Use knob "C" to go to .  
Confirm with key "A" to display .  
Use knob "C" to go to .  
Confirm using key "A".

Use knob "C" to adjust the power that calibration is to be implemented at and confirm with key "A".

• MINIMUM POWER =

• MAXIMUM POWER =

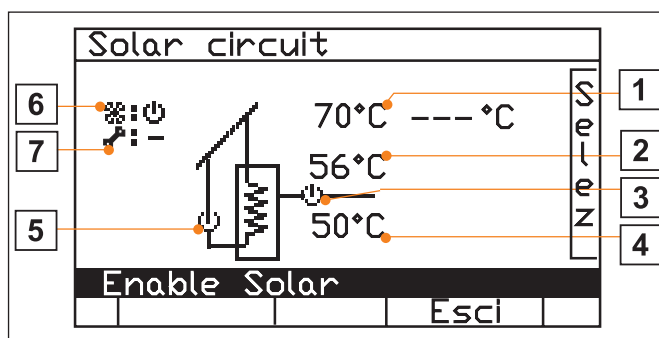
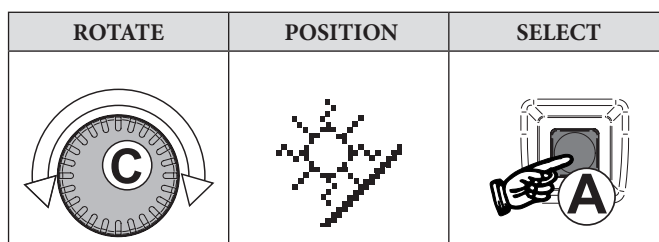
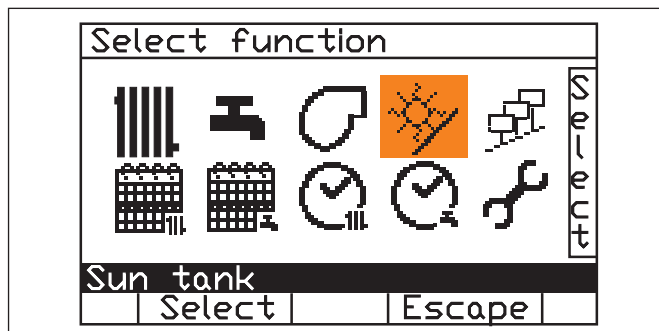
Calibrate each heating element by selecting the burners:



## 1.7.3 DEACTIVATION

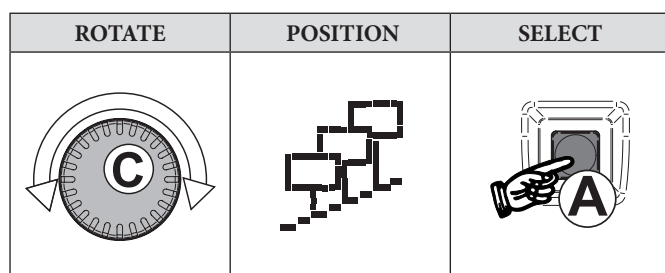
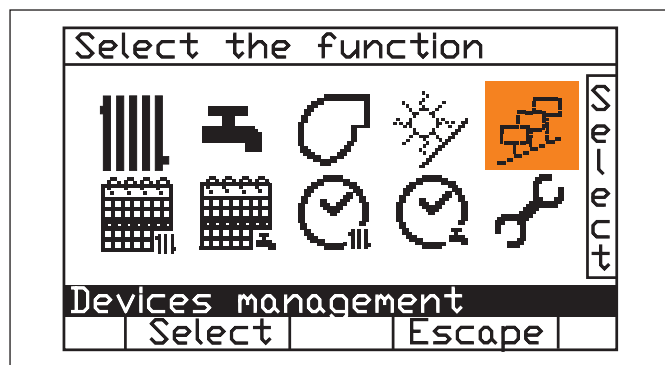
After calibrating, press key "B" to go back to the home page.

## 1.8 SOLAR SYSTEM



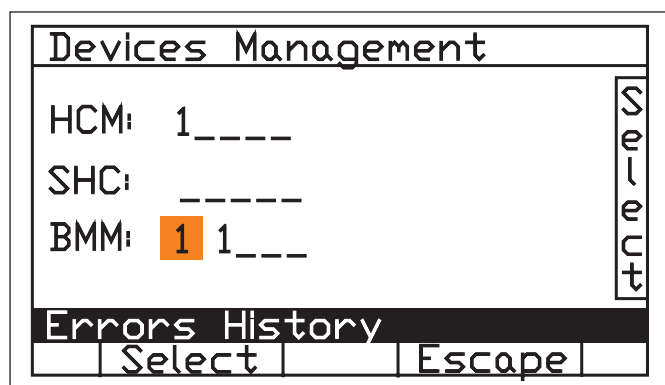
1	Solar collector temperature
2	Storage tank upper temperature
3	Energy sample status stored in the storage
4	Storage tank lower temperature
5	Solar pump status
6	Enables solar system:
	<div>  Stand-by (the solar service is disabled – useful when performing System Maintenance) </div> <div>  Active (normal operating status) </div>
7	Pump Test operation:
	<div>  In case of enabled solar servicer, it sets the pump in stand-by. </div> <div>  Activates the pump even if the solar service is disabled. In both positions, pressing "Exit" will return to normal operation (symbol -) </div>

## 1.9 DEVICE MANAGEMENT



Wait for scanning.

### 1.9.1 DEVICE MANAGEMENT SELECTION + LOG

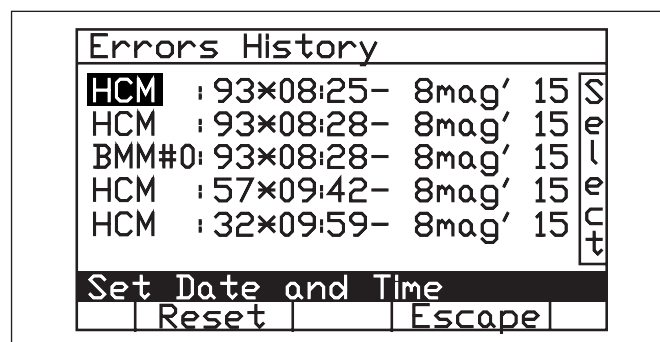



The display shows the devices in the system (- = not present/1-8 = progressive number of the detected device)

- **HCM** (BCM cascade controller)
- **SHC** (multifunction module)
- **BMM** (burner management board)

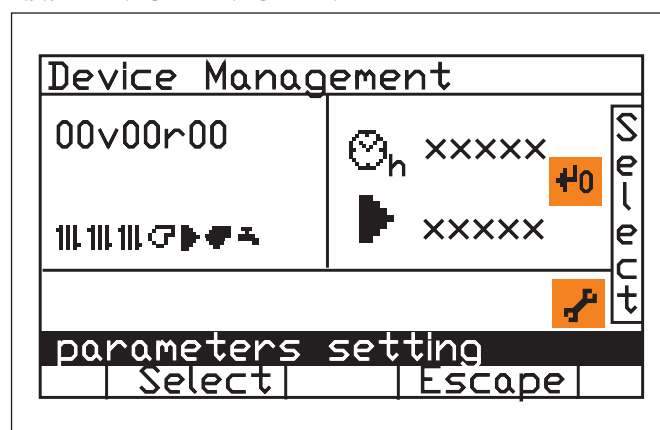
Select the module with knob "C" and confirm with key "A". The services provided by the device, parameters and software version are displayed.

### 1.9.2 LOG OF ERRORS



They are displayed by selecting  from the device management (last 6 errors). Reset to delete the Log. Every row indicates: the device that triggered the error, the error code and the time and date.

### 1.9.3 DEVICE MANAGEMENT



The screen shows:

- The software version;
- The key of the services provided by the device;
- The meter of the operating hours;
- The switch-on meter.

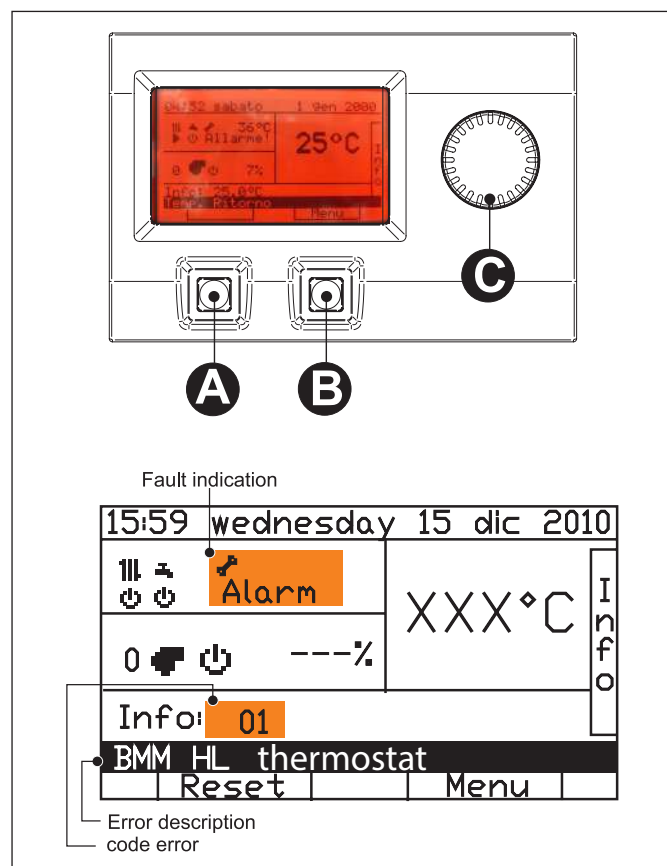
### 1.9.4 METER RESET

Go to 0 with knob "C" and confirm with key A (enter the access code).

### 1.9.5 ACCESS TO THE TECHNICAL PROGRAMMING OF EVERY DEVICE

Go to  with knob "C" and confirm with key A (enter the access code).

## 1.10 ERROR CODES



When the boiler detects a fault, the alarm symbol is displayed on the screen together with the relative error code and description.

It is possible to reset the boiler by pressing key "A".











**immergas.com**

Immergas S.p.A.  
42041 Brescello (RE) - Italy  
Tel. 0522.689011  
Fax 0522.680617

**Certified company ISO 9001**

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