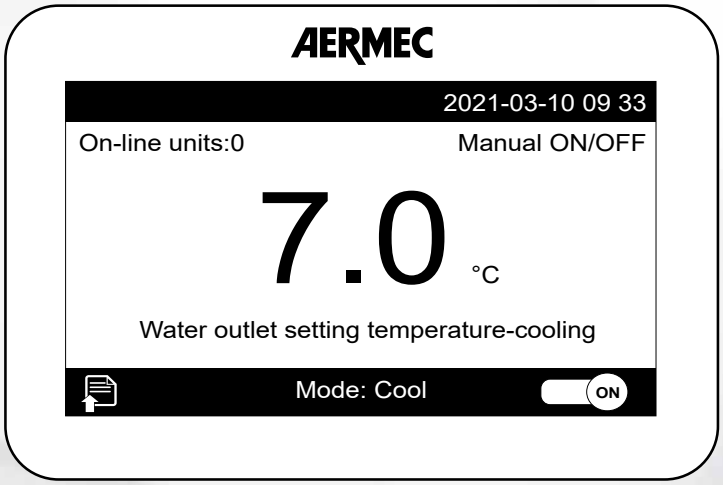
EN

24/01 - 5389992_06
Translation of Original instructions

TCP

User manual



CONTROL PANEL

AERMEC

www.aermec.com

Dear Customer,
Thank you for wanting to learn about a product Aermec. This product is the result of many years of experience and in-depth engineering research, and it is built using top quality materials and advanced technologies.
The manual you are about to read is meant to present the product and help you select the unit that best meets the needs of your system.
However, please note that for a more accurate selection, you can also use the Magellano selection program, available on our website.
Aermec, always attentive to the continuous changes in the market and its regulations, reserves the right to make all the changes deemed necessary for improving the product, including technical data.
Thank you again.

Aermec S.p.A.

SAFETY CERTIFICATIONS

CE

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled disposal of Waste Electrical and Electronic Equipment (WEEE), please return the device using appropriate collection systems, or contact the retailer where the product was purchased. Please contact your local authority for further details. Illegal dumping of the product by the user entails the application of administrative sanctions provided by law.

TABLE OF CONTENTS

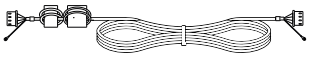
1 GENERAL INTRODUCTION

The TCP accessory (mandatory for the units of the HMG range) is a capacitive touch-screen panel for controlling the status of the unit and managing all its functions.

■ *Note:*

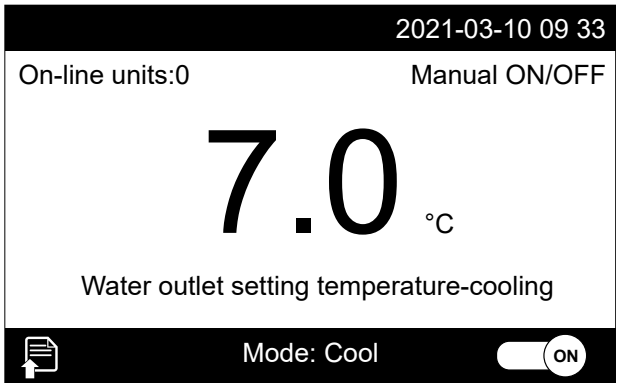
— you are advised to keep the screen clean to avoid any functioning anomalies
— the button on the upper right-hand corner of the frame is disabled, so pressing it will not activate any function
— the panel must be installed indoors, in environments where the temperature does not drop below -20°C and does not rise above 70°C.

MATERIAL STANDARD SUPPLIED



Description	Quantity (no.)	TCP
Communication cable between units and TCP L= 8m	1	•

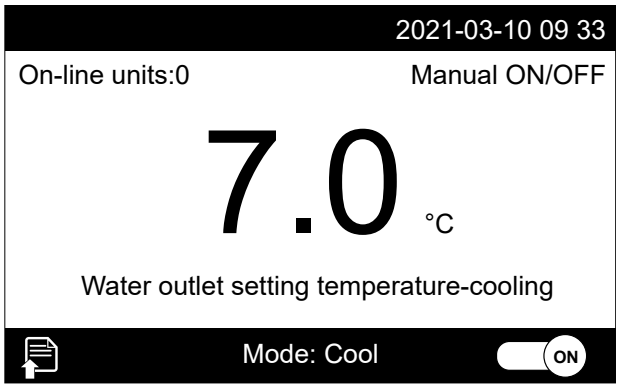
1.1 MAIN PAGE



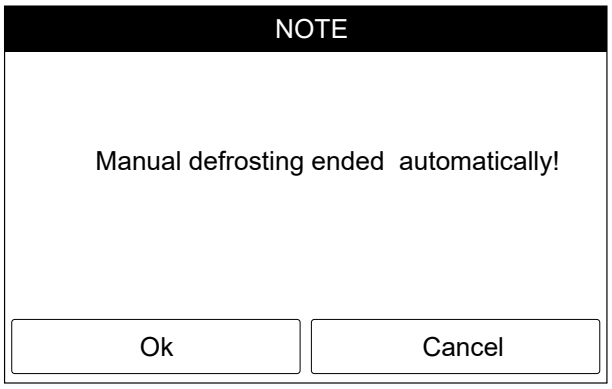
This window shows the following information:
— any error or connection signals received via BMS;
— date and time
— number of units currently online
— mode selected for ON/OFF
— current value of the setpoint defined
— button for accessing the menu page
— operating mode currently set
— button for ON/OFF (ON); the status of this button can change automatically according to the settings for the ON/OFF timers, or the status of the relevant ON/OFF contact.

■ *Note:*

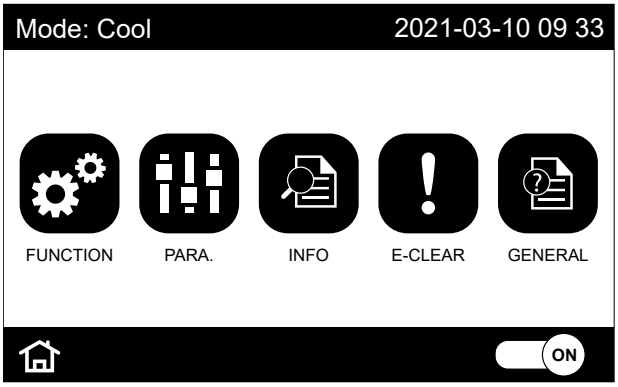
— this is the control software homepage
— by pressing on the icon in the bottom left-hand corner ( ) will take you to the menu selection page;
— the name of the unit will normally be displayed at the top left, but if the unit is connected to a BMS then the name will be alternated with the message "Remote Control: exist";
— in the event that an alarm is active for the unit (in the top left part of the display), a string will appear for the alarm in progress;



■ *NB: if the user does not carry out any operations on the display for 10 minutes the screen will automatically return to the homepage, except where the system sends notifications that require the user to push the "Ok" or "Cancel" buttons, for example, notification that the defrosting cycle has been completed, shown in the following image;*



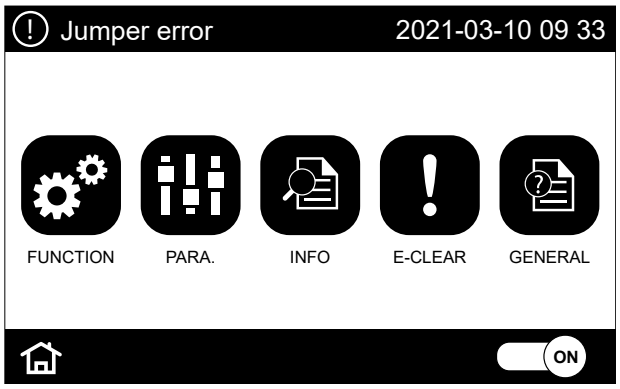
1.2 MENU SELECTION PAGE



From this page, you can select one of the operating menus that are available:
— FUNCTION: used to access the setting of the functions available on the unit
— PARA: used to access the setting of the parameters available on the unit;
— INFO: used to visualise information about the unit;
— E-CLEAR: used to clear the error memory and reset the unit;
— GENERAL: used to access the general unit settings;
— Homepage icon: used to return to the main page;
— ON ON/OFF button (the status of this button can change automatically according to the settings of the ON/OFF timers or the status of the relative ON/OFF contact);

■ *Note:*

— the current unit status is shown in the upper left part
— the name of the unit will normally be displayed at the top left, but if the unit is connected to a BMS then the name will be alternated with the message "Remote Control: exist";
— the unit name will normally be shown at the top left but, if the unit is in alarm mode, the name will be alternated with the name of the active alarm (see next picture)

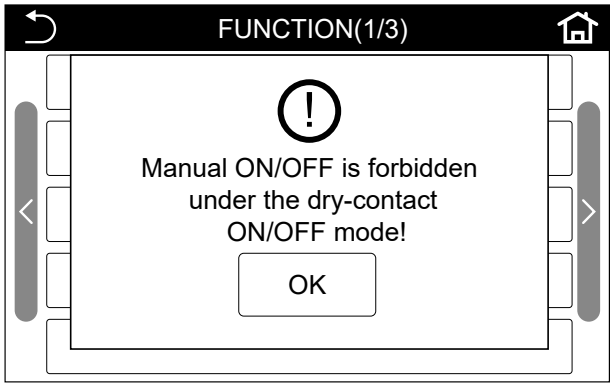


1.3 ERROR MESSAGE WINDOW

When the user attempts to implement an invalid command or operation, the system displays a window with an error message.

Note:

— when this type of window appears, the only possible option is to press the "OK" button,
— in the event that the "Ok" button is not pressed within 10 seconds after the window appears, the system will cancel the window and navigation of the control panel will return to normal;



1.4 SCREEN BACKLIGHTING

The screen is usually switched off if it is not used for 5 minutes (automatically switching back on when touched), but it can be set to remain switched on.
This setting can be accessed via: GENERAL MENU (1/1) > Back light: On

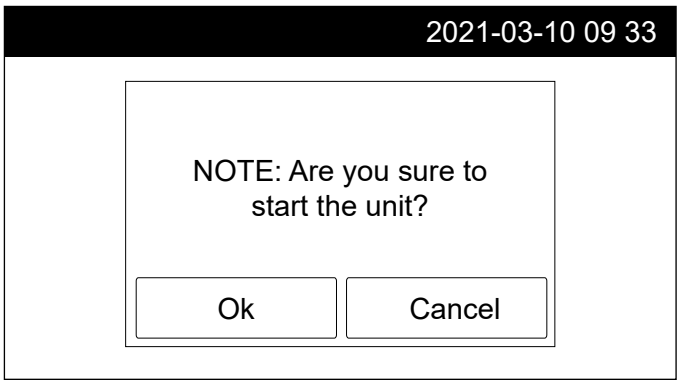
WARNING: you are advised not to activate the constant display backlight function if you want to ensure a long screen lifespan.

2 OPERATING FUNCTIONS

Certain functions may not be available for the unit model selected; in this case, the function value will be "N/A" or the setting will simply not be available.

ON/OFF FUNCTION

With the unit OFF (OFF), press the ON/OFF button on the main page to see the following window:



Press the "OK" button to bring the unit status from OFF to ON, modifying the status of the relative button on the homepage (ON);
If now (while the unit is in ON) the ON/OFF button is pressed again, the mask similar to the previous one will be displayed, where you will be asked if you really want to switch off the unit;
Press the "OK" button to bring the unit status from OFF to ON, modifying the status of the relative button on the homepage (OFF);

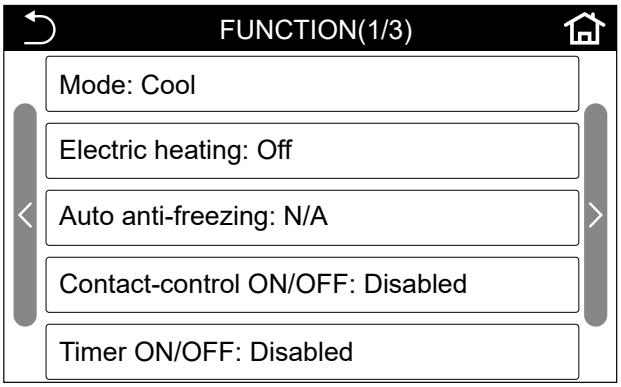
■ *Note:*

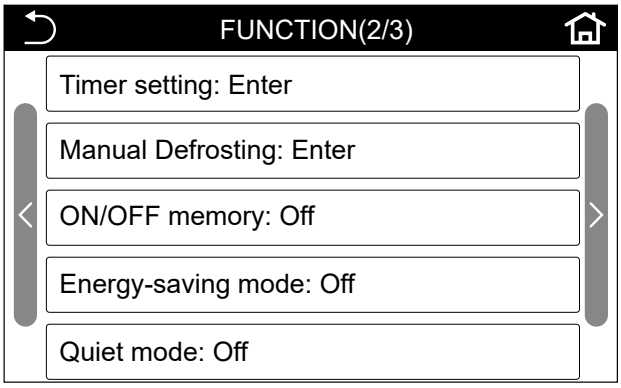
The unit has a status memory (called "ON/OFF memory") that allows it to automatically become active again following a voltage failure; if this function is not activated, the unit remains OFF after a voltage failure.
The following parameter must be set to activate the function: FUNCTION MENU (2/3) > ON/OFF Memory: On

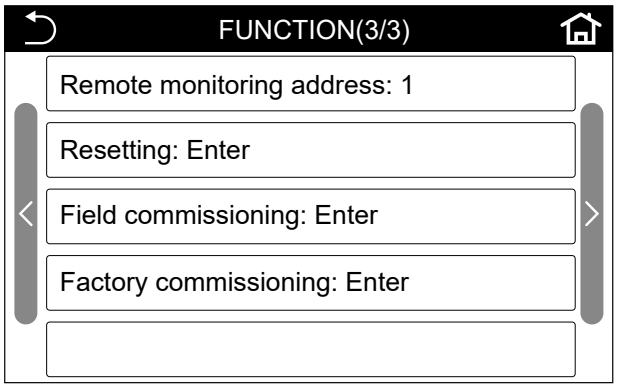
WARNING: the "ON/OFF memory" function is deactivated by default.

MENU "FUNCTION"

By pressing the "FUNCTION" menu icon from the menu selection page (), it will be possible to set the functions available on the unit; these functions are divided into different windows, as shown in the following figures:







To navigate the menu pages, there are two buttons on the right (go to next page) and left (back to previous page) sides. In addition, there is a button (in the top right corner) to return to the homepage and another (in the top left corner) to return to the menu selection page.
By pressing on any function, you can access the setting page for that specific function.
Every function setting page (with the values to be assigned to the function) has an "OK" button for saving the values entered, and a "Cancel" button if you don't want to save the function value modifications; if one of these two buttons is pressed, you will quit the function setting page and return to the selection page where the function was selected.

■ *Note:*

— press the button relating to the function to access the setting page for that function
— on the page dedicated to the setting of each function, the "OK" button is used to save the values set (but no message indicating the saving operation will be displayed)
— once the "OK" button has been pressed, a value will be saved in the unit memory and will still be set even after a voltage failure or a restart

The functions available in this menu are as follows:

N°	Parameter	Range	Note
1	Mode	Manual defrosting Heating Cooling	The value can only be changed if the unit is OFF
2	Electric heating	On Off	Enabling auxiliary electrical heaters
3	Auto anti-freezing	On Off	/
4	Contact-control ON/OFF	Disabled Enabled	Enable a clean contact for the unit's remote ON/OFF
5	Timer ON/OFF	Disabled Enabled	Used to set programmed switch-on and switch-off
6	Timer setting	Enter	Used to set the timer
7	Manual defrosting	Enter	Can only be set if the unit is OFF and the mode is "Manual defrost"
8	ON/OFF memory	On Off	/
9	Energy-saving mode	On Off	Refer to the "PARAMETERS" menu for the setting of the parameters relating to this function.
10	Quiet mode	On Off	/
11	Remote monitoring address	1~255	/
12	Reset	Enter	Apart from the language setting
13	Installer menu	Enter	/
14	Factory commissioning	Enter	/

(1) Mode
To access the mode setting page (when the unit is OFF), press the "Mode" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

Note:

— if "Manual-defrost" mode is set, the relative setting page (specified in point 7) will be accessible
— every data modification will be saved in the memory and automatically reset after a voltage failure

(2) Electric heating:
To access the electric heater setting page, press the "Electric heater" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

Note:

— the default value for this parameter is "Off"
— every data modification will be saved in the memory and automatically reset after a voltage failure

(3) Auto anti-freezing:
To access the antifreeze function setting page, press the "Auto anti-freezing" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

Note:

— the default value for this parameter is "On"
— every data modification will be saved in the memory and automatically reset after a voltage failure

Attention: it is forbidden to disable it if the unit is installed in areas where the outdoor temperature could drop below 0°C, unless a suitable amount of glycol is added to the technical water treated by the unit.

(4) Contact-control ON/OFF:
To access the contact ON/OFF setting page, press the "Contact-control ON/OFF" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

Note:

— once this parameter has been set to "On", a clean contact will be active (terminals 9 and 10 of the service control board). Closing this contact allows for the "On" command to be given to all the connected units; remember that, in the event that multiple units are managed by a single remote switch, every single unit will need to be connected to the switch independently;
— the default value for this parameter is "Off"
— every data modification will be saved in the memory and automatically reset after a voltage failure

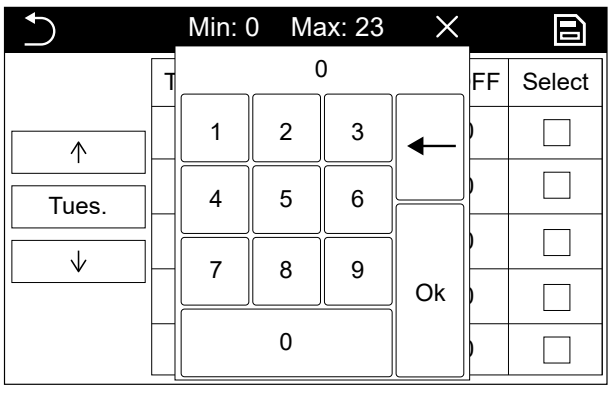
(5) Timer ON/OFF:
To access the timer setting page, press the "Timer ON/OFF" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

Note:

— the default value for this parameter is "Off"
— when the "Contact-control ON/OFF" function is active, this function will be automatically deactivated
— if this function is activated, the relative setting page (specified in point 6) will be accessible
— every data modification will be saved in the memory and automatically reset after a voltage failure

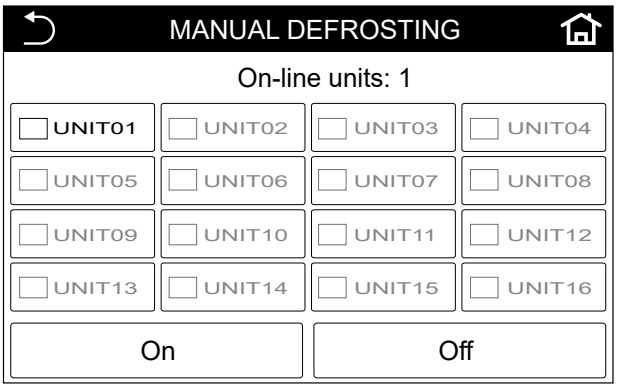
(6) Timer setting:
Press the "Timer setting" button to access the timer setting page and see the following page:

On the left, select the day of the week that you want to program (using the arrow buttons). Every day can have up to 4 programmable time bands, and for each one you can define whether the unit should be ON or OFF. Touch any time (either hours or minutes) in a time band to open the window for making the setting:

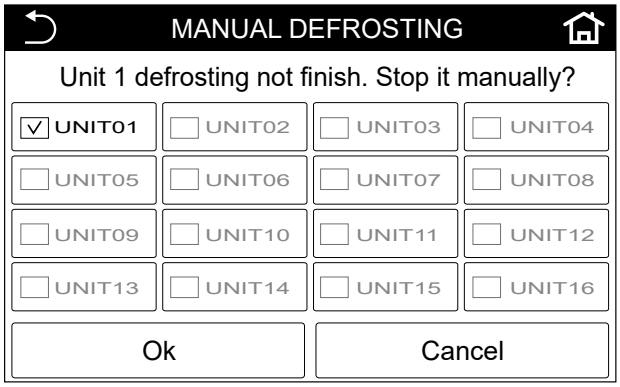


Once a time band has been set, press the corresponding empty box in the "Select" column; a tick will appear, indicating that the time band has been activated;
To save the set data, press the icon in the upper right-hand corner (), while if you wish to exit without saving, press the one in the top left-hand corner ();

(7) Manual defrosting:
Press the "Manual defrost" button to see the following window:



To select the unit you wish to defrost, press the tick button for unit chosen, which will be coloured green to indicate your selection;
After selecting the unit to be defrosted, press "On" to proceed; a check mark will then appear (☑) at the selected unit, indicating that defrosting is still in progress;
If the "Off" button is pressed during the defrosting cycle, a message will tell you that the cycle is still in progress and you will be asked whether you want to end it manually:



Press "Ok" if you want to stop the defrosting cycle; the cycle will be interrupted and the tick will be removed from the label representing that unit.

Note:

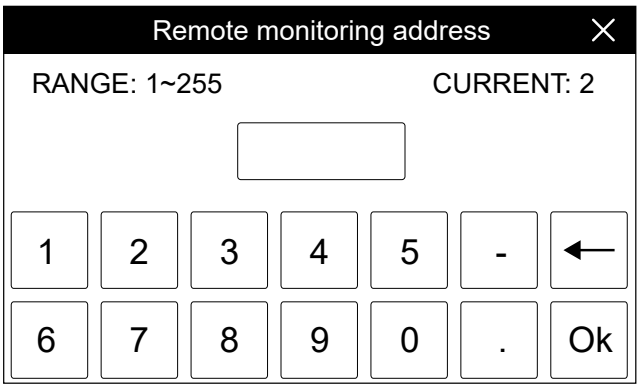
- before activating this function, the operating mode must be set on "Manual-defrost"
- on the unit selection page, the active units are shown in white and the inactive ones in grey
- this function cannot be implemented on inactive units
- this function cannot be implemented on more than one unit at the same time
- if the defrosting cycles hasn't finished after 5 minutes, the unit will stop it automatically and visualise an "automatic defrost stop" message
- if this function is activated, the effective defrosting cycle may be delayed by the unit

(8) ON/OFF memory:
To access the setting page to reactivate the unit in the event of a voltage failure, press the "ON/OFF memory" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

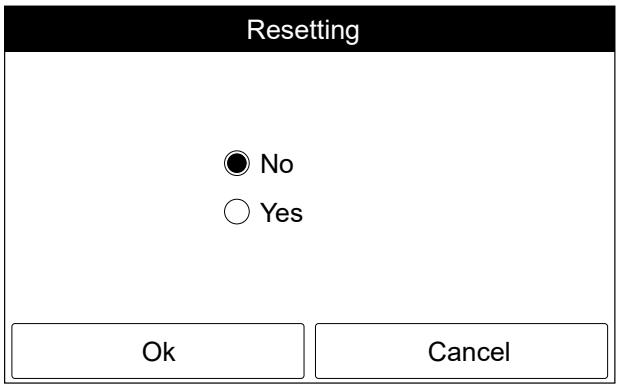
(9) Energy-saving mode:
To access the climate curve activation page, press the "Energy-saving mode" button, select the desired value and press "Ok" to save and quit the specific settings page, or press "Cancel" to quit without saving the changes;

(10) Quiet mode:
To access the night-time mode setting page, press the "Quiet mode" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

(11) Remote monitoring address:
To access the setting page for the serial address to be assigned to the unit, press the "Remote monitoring address" button and select the required value (from 1 to 255), then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.



(12) Resetting:
To access the setting and parameter reset page, press the "Resetting" button and select the required value, then press "OK" to reset the default values for all the parameters and functions and quit the page, or "Cancel" to quit without saving the modifications.



Note:

- after confirming this function, all the user parameters and functions will resume their default values
- after a reset, all the parameters will resume their default values, apart from: timer, language, and the "General", "Timer setting" and "Manual defrost" parameters
- this function will have no effect on functions (13) and (14)

(13) Field commissioning:
Press the button of this function to bring up a window where you can enter the password needed to access this menu. This menu must only be accessed during unit maintenance.

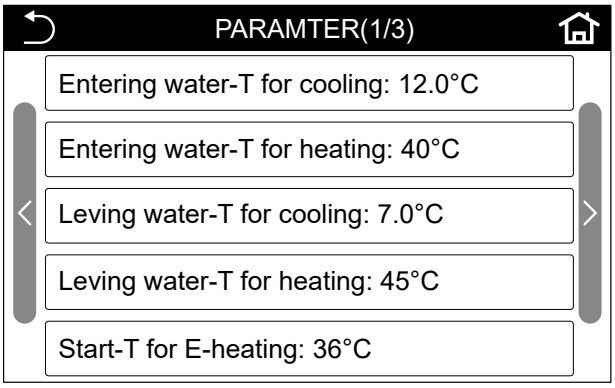
WARNING: only authorised personnel may access this menu, as any modification of the protected parameters might damage the units.

(14) Factory commissioning:

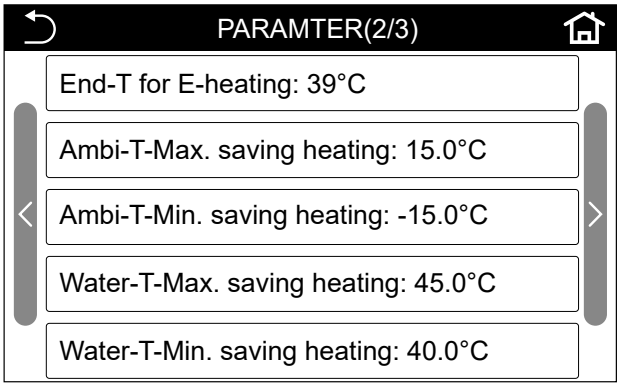
WARNING: only authorised personnel may access this menu, as any modification of the protected parameters might damage the units.

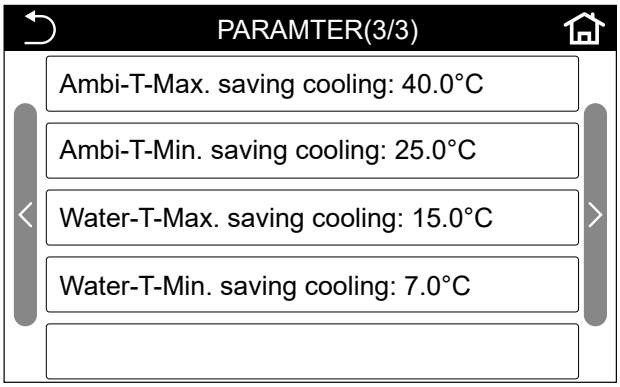
"PARAMETERS" MENU

By pressing the "PARA." menu icon from the menu selection page (), it will be possible to set the operating parameters of the unit; these parameters are divided into several windows, as shown in the following figures:

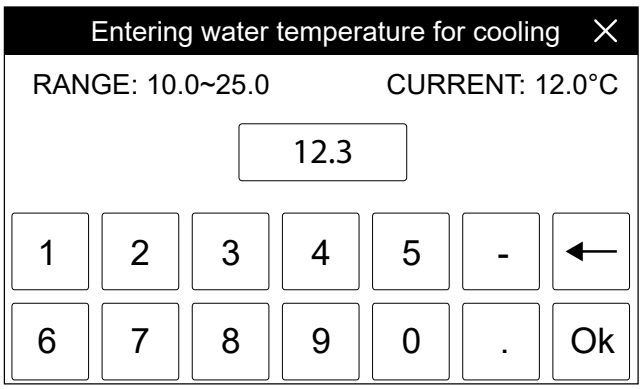


To navigate between the parameter pages, two buttons are available on the right (go to next page) and left (back to previous page), and there are also buttons to return to the homepage ( ) or to return to the menu selection page ( ).





You can press on any parameter to alter its value. Every parameter modification page has an "OK" button for saving the values entered, and an "X" button (at the top right) if you don't want to save the value modifications; if one of these two buttons is pressed, you will quit the setting page and return to the parameter selection page:



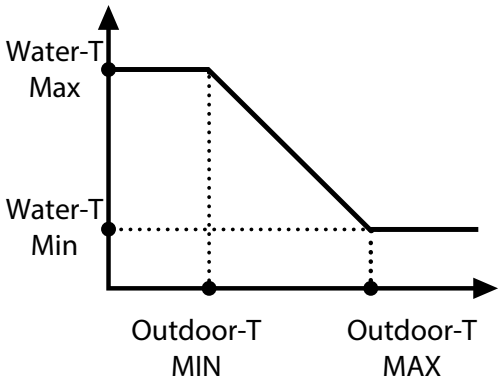
■ *Note:*

— certain parameters have default values linked to the value of other parameters (e.g. "type of unit"); these parameters are automatically set at their default values if there is any change to the parameters they depend on
— when a setting is not available for a parameter, the letters "N/A" are shown
— the value insertion window includes all the numerical figures, the decimal point, the negative symbol, the button for deleting the insertion and the "Ok" button for confirming
— if you try to enter a value outside the range (shown in the top left corner), or one that isn't coherent with the parameter, an error message will be displayed and the value will be cancelled, then you can enter a correct new value

This is a list of the operating parameters available:

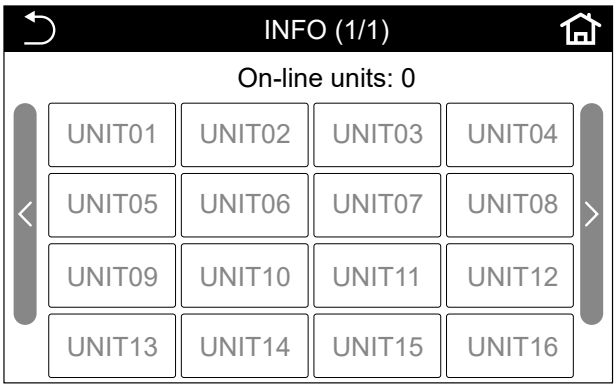
1. Water inlet temperature for cooling ("Entering water-T for cooling");
2. Water inlet temperature for heating ("Entering water-T for heating");
3. Water outlet temperature for cooling ("Leaving water-T for cooling");
4. Water outlet temperature for heating ("Leaving water-T for heating");
5. Temperature for heater activation ("Start-T for E-heating");
6. Temperature for heater deactivation ("End-T for E-heating");
7. Upper limit of the ambient temperature under the energy saving mode for heating ("Ambi-T-Max. saving heating");
8. Lower limit of the ambient temperature under the energy saving mode for heating ("Ambi-T-Min. saving heating");
9. Upper limit of the water temperature under the energy saving mode for heating ("Water-T-Max. saving heating");
10. Lower limit of the water temperature under the energy saving mode for heating ("Water-T-Min. saving heating");
11. Upper limit of the ambient temperature under the energy saving mode for cooling ("Ambi-T-Max. saving cooling");
12. Lower limit of the ambient temperature under the energy saving mode for cooling ("Ambi-T-Min. saving cooling");
13. Upper limit of the water temperature under the energy saving mode for cooling ("Water-T-Max. saving cooling");
14. Lower limit of the water temperature under the energy saving mode for cooling ("Water-T-Min. saving cooling");

Parameters 7 to 14 represent the curves that the system will use to change the set automatically on the delivery temperature to both hot and cold:



"INFO" MENU

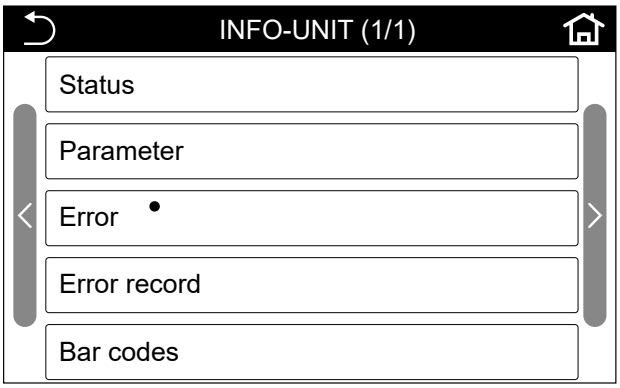
By pressing the "INFO." menu icon from the menu selection page ( ), it will be possible to display information about the unit; this information is divided as shown in the following figures:



Note:

— If a unit is in alarm it will be reported in red, and a dot will appear to identify them;
— the units currently connected and available will appear white;
— units that are offline and therefore not available will appear grey;

Once the reference unit has been selected, you will see a window where you can choose the type of information to be visualised:



Note:

— only the active units (shown in white) can be selected
— if a unit is in alarm, a dot will appear to identify it under the "Error" button;

(1) Status:
Pressing the "Status" button will take you to information about the current functioning of the unit, which is divided into several pages; to navigate through the pages you will need to use the arrow keys located on the right and left side of the page;

Note: Information and values are in display-only mode;

Elements displayed in the "Status" menu

Name	Available at the page	Status
System status	1	Off, Cooling, Heating, Defrosting, Automatic anti-free
Compressor 1		On, Off
Compressor 2		On, Off
Fan 1		On, Off
Fan 2		On, Off
Water pump 1	2	On, Off
Water pump 2		On, Off, Without
Flow switch		Closed/Open
Four-way valve 1		On, Off
Four-way valve 2		On, Off
Electric heater 1	3	On, Off
Electric heater 2		On, Off
Contact-control		On, Off
Discharge T-sensor 1		Unlocked/Locked
Discharge T-sensor 2		Unlocked/Locked
Electromagnetic valve 1	4	On, Off
Electromagnetic valve 2		On, Off
Electric ball valves		N/A
		On, Off (*)

(*) For the HMG-P series

Note:

— if a parameter is not available for the unit, the letters "N/A" are shown
— if "Alternation function" is "Off", the default value of "Water pump 2" will be "Without"
— please note that the unit can manage up to two electric resistances via potential free contact (for more information, refer to the unit's wiring diagram);
— "Electromagnetic valve" items refer to the solenoid valves upstream of the capillary (refer to the unit's cooling diagrams for more information);

(2) Parameteri:
Press the "Parameter" button to access information about the unit parameters:

List of unit parameters

Operating parameter	Available at the page	Description
Entering water-T	1	Water temperature at heat exchanger input
Leaving water-T		Water temperature at heat exchanger output
Defrosting temperature 1		Defrosting sensor 1 temperature
Defrosting temperature 2		Defrosting sensor 2 temperature
Discharge temperature 1		Compressor flow 1 temperature
Discharge temperature 2	2	Compressor flow 2 temperature
Anti-freezing-T		Low water temperature limit (cold)
Anti-over-heating-T		High water temperature limit (hot)
External air temperature		External air temperature
Suction temperature 1		Compressor 1 intake temperature

Operating parameter	Available at the page	Description
Suction temperature 2		Compressor 2 intake temperature
Shell-and-tube inlet-T 1		Shell and tube heat exchanger 1 input temperature
Plate-H-EXCHG inlet-T 1 (*)		Inlet temperature 1 of plate heat exchangers
Shell-and-tube inlet-T 2		Shell and tube heat exchanger 2 input temperature
Plate-H-EXCHG inlet-T 2 (*)	3	Inlet temperature 2 of plate heat exchangers
Shell-and-tube outlet-T 1		Shell and tube heat exchanger 1 output temperature
Plate-H-EXCHG outlet-T 1 (*)		Outlet temperature 1 of plate heat exchangers
Shell-and-tube outlet-T 2		Shell and tube heat exchanger 2 output temperature
Plate-H-EXCHG outlet-T 2 (*)		Outlet temperature 2 of plate heat exchangers
Water-T for energy saving		Water production temperature with climatic curve
High pressure sensor 1	4	High pressure transducer 1 value
High pressure sensor 2		High pressure transducer 2 value

(*) For the HMG-P series

Note:

— if the temperature value is invalid or absent, the letters "N/A" are shown
— for the "Anti-freezing-T" and "Anti-over-heating-T" parameters, only the "Anti-freezing-T" parameter will be visualised if the set mode is "cool"; if any other mode is set, only the "Anti-over-heating-T" parameter will be visualised

(3) Error:
Pressing the "Error" button will take you to information about errors on the unit;

Note: the system will display the active errors on the unit, offering a list if there are more than one (if more than 5, they will be divided into pages, which can be changed using the arrow keys on the right and left side of the window);

List of alarms

N.	Visualisation	Description
1	Jumper error	Error relating to the jumper
2	Flow meter alarm	Flow switch error
3	Sys1 H-discharge-T	High discharge temperature protection 1
4	Sys2 H-discharge-T	High discharge temperature protection 2
5	Low Discharge T1	Low discharge temperature 1
6	Low Discharge T2	Low discharge temperature 2
7	Sys1 high pressure	High pressure alarm1
8	Sys2 high pressure	High pressure alarm 2
9	Sys1 low pressure	Low pressure alarm 1
10	Sys2 low pressure	Low pressure alarm 2
11	Entering water TSE	Water inlet probe error
12	Leaving water TSE	Water outlet probe error
13	Anti-F/anti-H TSE	Anti-freeze/anti-overheating probe error
14	Outdoor TSE	Outdoor temperature sensor error
15	Defrosting TSE1	Defrosting probe error 1
16	Defrosting TSE2	Defrosting probe error 2
17	Dis-TSE1 malfunction	Temperature probe error on discharge 1
18	Dis-TSE2 malfunction	Temperature probe error on discharge 2
19	Shell&tube inlet TSE1	Temperature probe error on inlet of shell & tube heat exchanger 1
20	Shell&tube inlet TSE2	Temperature probe error on inlet of shell & tube heat exchanger 2
21	Suction TSE1	Temperature probe error on intake 1
22	Suction TSE2	Temperature probe error on intake 2
23	Pressure TSE1	Error on pressure sensor 1
24	Pressure TSE2	Error on pressure sensor 2
25	Commu-E comp1	Communication error between driver and compressor 1
26	Commu-E comp2	Communication error between driver and compressor 2
27	Commu-E fan1	Communication error between driver and fan 1
28	Commu-E fan2	Communication error between driver and fan 2
29	Shell&tube outlet TSE1	Temperature probe error on outlet of shell & tube heat exchanger 1
30	Shell&tube outlet TSE2	Temperature probe error on outlet of shell & tube heat exchanger 2
31	Failure of pump1	Pump protection 1
32	Failure of pump2	Pump protection 2
33	Fan1 error	Fan error 1
34	Fan2 error	Fan error 2
35	Over-current-proF1	Over-current protection of fixed frequency fan 1
36	Over-current-proF2	Over-current protection of fixed frequency fan 2
37	DC under-voltageC1	DC busbar under-voltage or voltage drop error of compressor 1
38	DC over-voltageC1	DC busbar over-voltage or voltage drop error of compressor 1
39	IPM errorC1	IPM module error on compressor 1
40	Startup failureC1	Startup failure of compressor 1
41	Dri-Mod resettingC1	Compressor 1 driver reset
42	Comp-Over-currentC1	Compressor 1 overcurrent
43	Current circuit SEC1	Current sensing circuit error or current sensor error of compressor 1
44	DesynchronizingC1	Desynchronizing of compressor 1
45	Comp-Dri-Comm-EC1	Communication error with driver compressor 1
46	HS-IPM-PFC over-TC1	Heat sink or IPM or PFC over-temperature of compressor 1
47	HS-IPM-PFC SEC1	Heat sink or IPM or PFC temperature sensor error of compressor 1
48	Charging circuit-EC1	Charging circuit error of compressor 1
49	DC under-voltageC2	DC busbar under-voltage or voltage drop error of compressor 2
50	DC over-voltageC2	DC busbar over-voltage or voltage drop error of compressor 2
51	IPM errorC2	IPM module error on compressor 2
52	Startup failureC2	Startup failure of compressor 2
53	Dri-Mod resettingC2	Compressor 2 driver reset

N.	Visualisation	Description
54	Comp-Over-currentC2	Compressor 2 overcurrent
55	Current circuit SEC2	Current sensing circuit error or current sensor error of compressor 2
56	DesynchronizingC2	Desynchronizing of compressor 2
57	Comp-Dri-Comm-EC2	Communication error with driver compressor 2
58	HS-IPM-PFC over-TC2	Heat sink or IPM or PFC over-temperature of compressor 2
59	HS-IPM-PFC SEC2	Heat sink or IPM or PFC temperature sensor error of compressor 2
60	Charging circuit-EC2	Charging circuit error of compressor 2
61	DC under-voltageF1	DC busbar under-voltage or voltage drop error of fan 1
62	DC over-voltageF1	DC busbar over-voltage or voltage drop error of fan 1
63	IPM errorF1	IPM module error on fan 1
64	Startup failureF1	Fan 1 start-up failed
65	Dri-Mod resettingF1	Fan 1 driver reset
66	Fan-Over-currentF1	Overcurrent fan 1
67	Current circuit SEF1	Current sensing circuit error or current sensor error of fan 1
68	DesynchronizingF1	Desynchronizing of fan 1
69	Fan-Dri-Comm-EF1	Communication error with driver fan 1
70	HS-IPM-PFC over-TF1	Heat sink or IPM or PFC over-temperature of fan 1
71	HS-IPM-PFC SEF1	Heat sink or IPM or PFC temperature sensor error of fan 1
72	Charging circuit-EF1	Charging circuit error of fan 1
73	DC under-voltageF2	DC busbar under-voltage or voltage drop error of fan 2
74	DC over-voltageF2	DC busbar over-voltage or voltage drop error of fan 2
75	IPM errorF2	IPM module error on fan 2
76	Startup failureF2	Fan 2 start-up failed
77	Dri-Mod resettingF2	Fan 2 driver reset
78	Fan-Over-currentF2	Overcurrent fan 2
79	Current circuit SEF2	Current sensing circuit error or current sensor error of fan 2
80	DesynchronizingF2	Desynchronizing of fan 2
81	Fan-Dri-Comm-EF2	Communication error with driver fan 2
82	HS-IPM-PFC over-TF2	Heat sink or IPM or PFC over-temperature of fan 2
83	HS-IPM-PFC SEF2	Heat sink or IPM or PFC temperature sensor error of fan 2
84	Charging circuit-EF2	Charging circuit error of fan 2
85	DC under-voltageWP1	DC busbar under-voltage or voltage drop error of pump 1
86	DC over-voltageWP1	DC busbar over-voltage or voltage drop error of water pump 1
87	IPM errorWP1	IPM failure of water pump 1
88	Startup failureWP1	Startup failure of water pump 1
89	Dri-Mod resettingWP1	Drive module resetting of water pump 1
90	Over-currentWP1	Over-current of water pump 1
91	Current circuit SEWP1	Current sensing circuit error or current sensor error of water pump 1
92	DesynchronizingWP1	Desynchronizing of water pump 1
93	Dri-Comm-EWP1	Communication error to the drive of water pump 1
94	HS-IPM-PFC over-TWP1	Heat sink or IPM or PFC over-temperature of water pump 1
95	HS-IPM-PFC SEWP1	Heat sink or IPM or PFC temperature sensor error of water pump 1
96	Charging circuit-EWP1	Charging circuit error of water pump 1
97	Commu-E WP1	Communication error of the drive board of water pumps
98	Plate-H-E outlet TSE1	Outlet temperature sensor 1 of plate heat exchangers
99	Plate-H-E outlet TSE2	Outlet temperature sensor 2 of plate heat exchangers
100	Plate-H-E inlet TSE1	Inlet temperature sensor 1 of plate heat exchangers
101	Plate-H-E inlet TSE2	Inlet temperature sensor 2 of plate heat exchangers
102	Prote-4-way valve1	Reverse cycle 1 valve alarm
103	Prote-4-way valve2	Reverse cycle 2 valve alarm

(4) Error record:
Pressing the "Error record" button will access the alarm history;

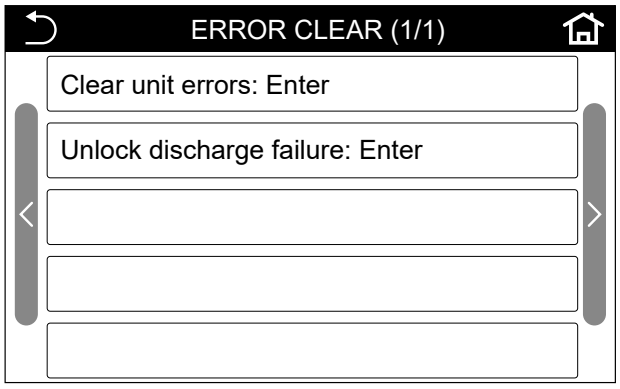
Note:

— each saved error includes number, name, date of the error occurred; alarms will be sorted by date (most recent first);
— The system can save up to 10 errors for each unit; every error after this will overwrite the oldest one in the memory.

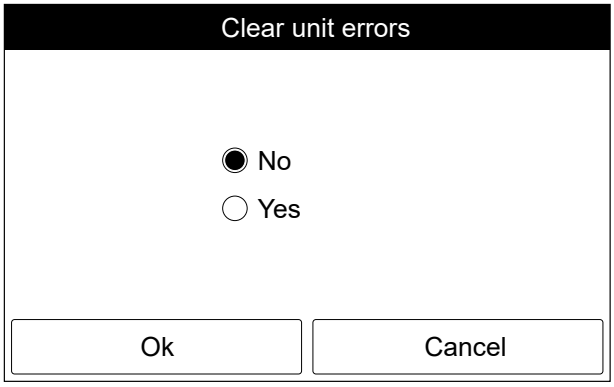
(5) Bar codes:
Function not available.

"E-CLEAR" MENU

By pressing the "E-Cleaner" button from the menu selection page ( ), you will access the possibility of resetting system errors:



Press the "Clear unit errors" button to access the page for deleting the errors that have arisen on the unit:



■ *Note:*

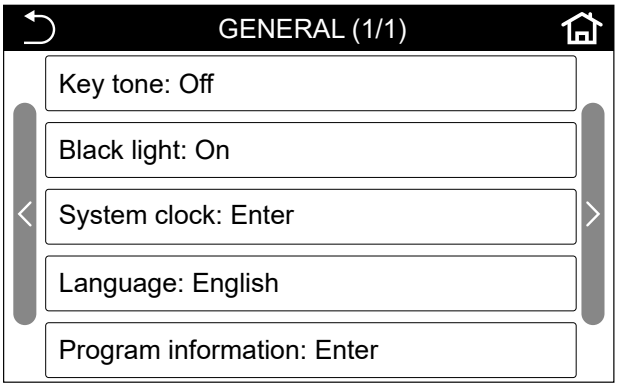
— select "YES" and press "OK" to run the error deletion procedure
— select "NO" or press "Cancel" to annul the operation
— once this function has been executed, all the online unit alarms will be reset (only those alarms with no automatic or manual reset will remain active)

Press the "Unlock discharge" button to access the page dedicated to unit release after an "Unlock discharge failure" error:

■ *NB: once this error has been eliminated, the unit will be released and can start up again.*

"GENERAL" MENU

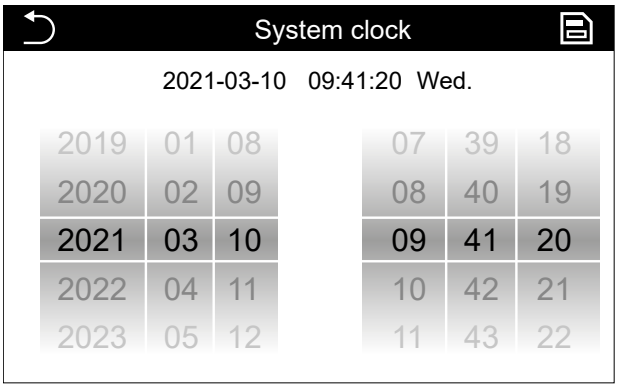
By pressing the "GENERAL" menu icon from the menu selection page ( ), it will be possible to set the general functions available on the unit; these functions are divided into different windows, as shown in the following figures:



(1) Key tone:
To access the key tone setting page, press the "Key tone" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

(2) Back light:
To access the screen backlight setting page, press the "Back light" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

(3) System clock:
To access the system clock setting page, press the "System clock" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.



Date and time will be displayed in the following format: YYYY - MM - DD / HH:MM:SS
The date and time can be selected by scrolling the rollers until the desired data is obtained; pressing the top right icon will save the data, while pressing the top left icon will clear the page; both will return the display to the top level;

(4) Language Setting:
To access the language selection page, press the "Language setting" button and select the required value, then press "OK" to save and quit the page or "Cancel" to quit without saving the modifications.

(5) Program information:
To access the firmware information display page, press the "Program information" button;

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