EN

23/11 - 5389591_06
Translation of Original instructions

WRC

User manual

WIRED CONTROLLER

AERMEC

www.aermec.com

Dear customer,Thank you for choosing an Aermec product. It is the fruit of many years of experience and special design studies and has been made of the highest grade materials and with cutting edge technology.In addition, all our products bear the CE mark indicating that they meet the requirements of the European Machine Directive regarding safety. The quality level is being constantly monitored, so Aermec products are synonymous with Safety, Quality and Reliability.The data may undergo modifications considered necessary for the improvement of the product, at any time and without the obligation for any notice thereof.
Thank you again.
Aermec S.p.A.

COMPANY CERTIFICATIONS

SAFETY CERTIFICATIONS

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

USER NOTICE

— The wired controller is universal.

— Never install the wired controller in the moist circumstance or expose it directly under the sunlight.

— Never beat, throw, and frequently disassemble the wired controller and the wireless remote controller.

— Never operate the wired controller and the wireless remote controller with wet hands.

— Do not remove or install the wired controller by yourself. If there is any question, please contact our after-sales service center.

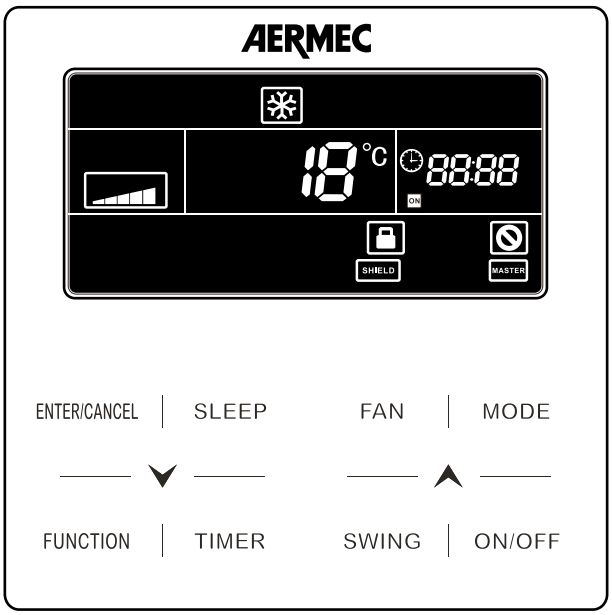
— By pressing a key for a function that is not available, the unit will not change the operating status.

Please read the manual carefully before using and installing this product.

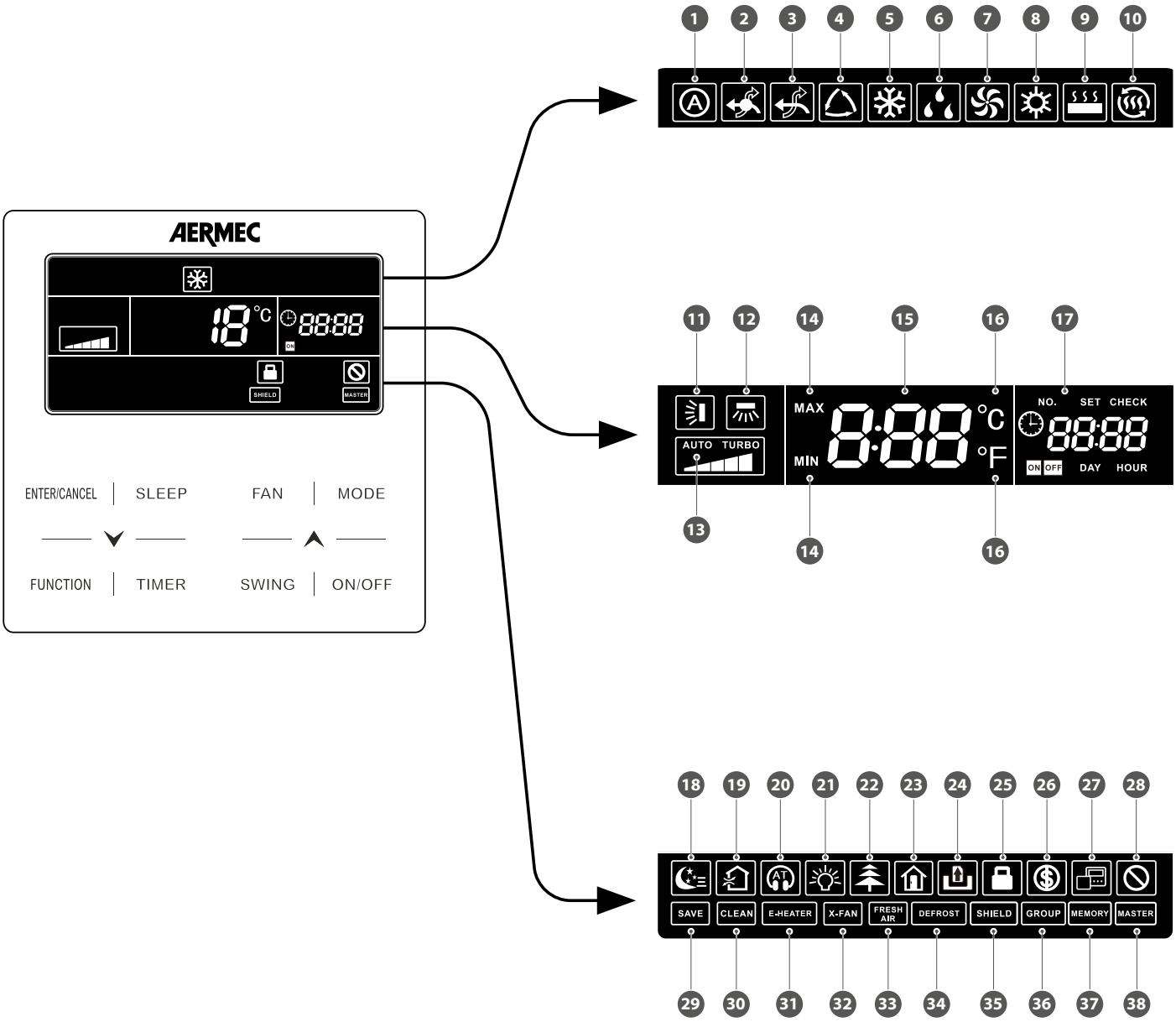
2 WIRED CONTROLLER

The WRC wired panel allows display and rapid setting of the machine's operating parameters. The card stores all the default settings and any modifications. After the absence of voltage for any period of time, the unit is able to start up again automatically, maintaining the original settings.
The user interface comprises an LCD display with icons used to display information and available functions about the units; the user may interact with the panel using the function keys located in the lower part of the panel itself.

Wired Controller



3 USER INTERFACE (DISPLAY)

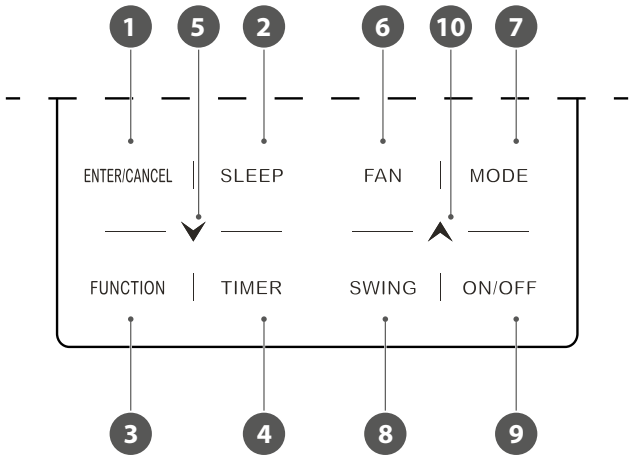


The following table indicates which functions match the various icons available on the wired panel's LCD display:

	Description
1	Function not available
2	Function not available
3	Function not available
4	Indicates that AUTOMATIC mode is active (only available on the MASTER unit)
5	Indicates that COOLING mode is active (only available if the MASTER unit is set with a compatible mode): COOLING, DEHUMIDIFICATION)
6	Indicates that DEHUMIDIFICATION mode is active (only available if the MASTER unit is set with a compatible mode): COOLING, DEHUMIDIFICATION)
7	Fan mode
8	Indicates that HEATING mode is active (only available if the MASTER unit is set with the same mode):
9	Function not available
10	Function not available
11	Indicates the status of the SWING (vertical) function
12	Function not available
13	Indicates the current fan setting
14	These icons are displayed when setting operating parameters; they indicate the maximum (when setting the heat limit) or minimum (when setting the cool limit) values
15	During normal unit operation, the temperature setting in use is displayed
16	Indicates the unit of measure used to indicate the temperature settings
17	This group of icons depicts the functions and information associated with the system time or the options associated with the unit ON/OFF timer
18	Indicates the SLEEP function is active
19	Function not available
20	Indicates that the QUIET quiet operation was activated
21	If fitted, it indicates that wired panel backlighting is active
22	Function not available
23	Indicates that the antifreeze function was activates
24	Function not available

	Description
25	Indicates that the key lock function is active on the panel Indicates that all the buttons of the remote control are locked
26	Indicates that energy saving mode is active on the indoor unit connected
27	Indicates that the wired panel is a slave (i.e. two wired panels are connected to the indoor unit: one master and one slave)
28	Function not available
29	Indicates that the outdoor unit is operating in "safe" mode
30	This icon appears in order to indicate that the filter on the indoor unit must be cleaned
31	Function not available
32	Indicates that the X-FAN function is active on the unit (this functions dries the coil in cool or dehumidification mode)
33	Function not available
34	Indicates that the outdoor unit is currently defrosting
35	This icon indicates that the panel was disenabled by a remote controller (zone control, mains control) VRF Debugger
36	This icon indicates that the wired panel controls several indoor units (a group)
37	Indicates that the Indoor unit is resuming the settings stored in memory (this event occurs after a black-out)
38	Indicates that the indoor unit connected to the panel is the system MASTER

4 USER INTERFACE (BUTTONS)



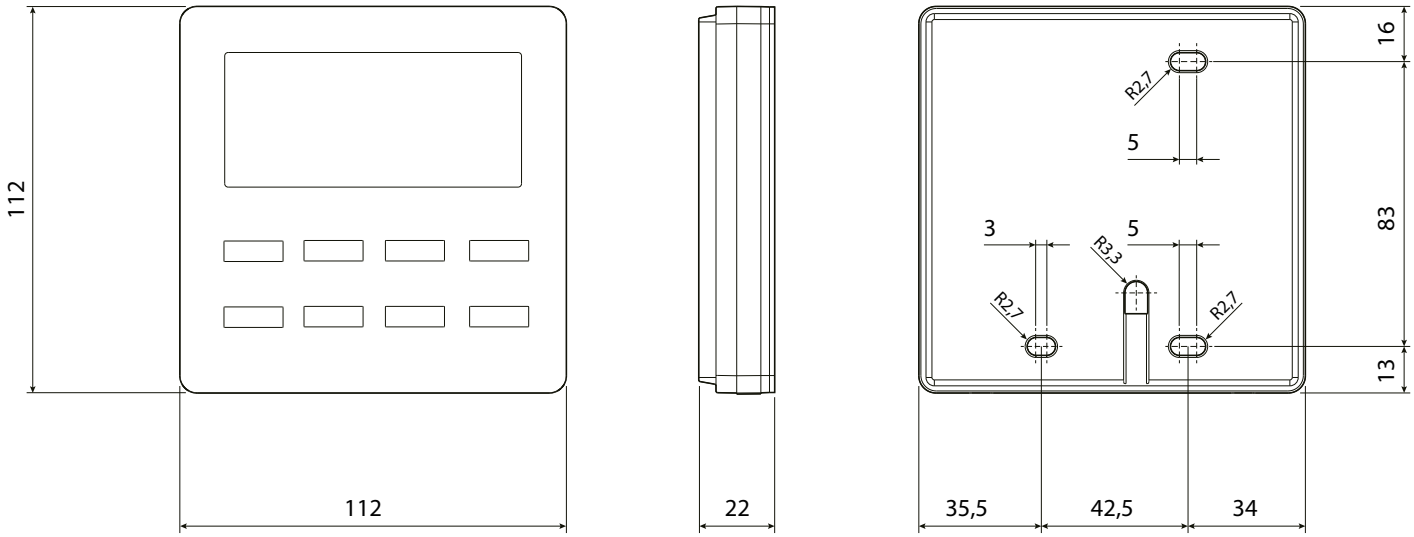
	Description
1	Selects or Cancels desired function
2	Sets night-time comfort mode SLEEP
3	Activates or de-activates certain extra functions (for example the QUIET, X-FAN, SAVE, CLEAN modes...)
4	Sets data for unit timers
5	Decrease the value of the active function: • Temperature • Time • Timer Pass to the previous data
6	Sets the fan speed
7	Sets the operating mode
8	Sets automatic delivery fin oscillation (on units where this is envisaged)
9	Switches indoor unit ON/OFF
10	Increase the value of the active function: • Temperature • Time • Timer Pass to the previous data

5 INSTALLATION OF THE WIRED CONTROLLER

WARNING: MV systems must have a master only one) for correct management of the operating modes. For the setting procedure, refer to the specific section.

DIMENSIONS OF THE WIRED PANEL

(mm)

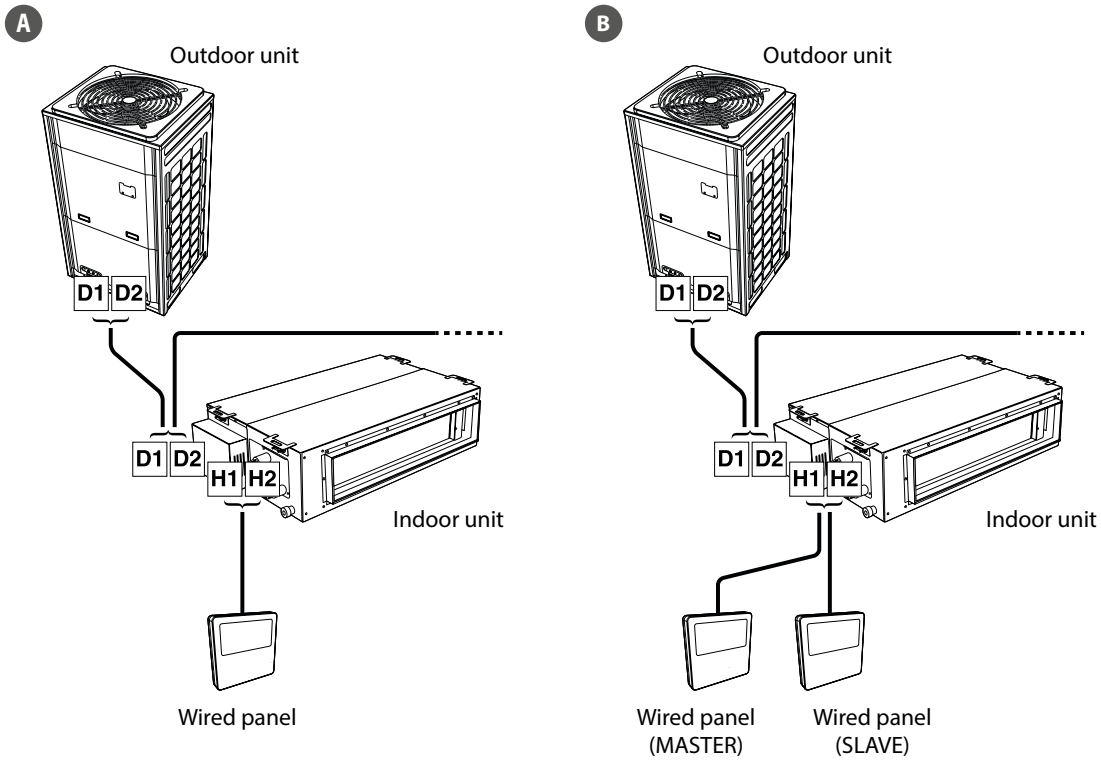


SERIAL CONNECTION

The wired panel communicates with the Indoor unit through a serial port; it is possible to select several Indoor unit management configurations using the wired panel:

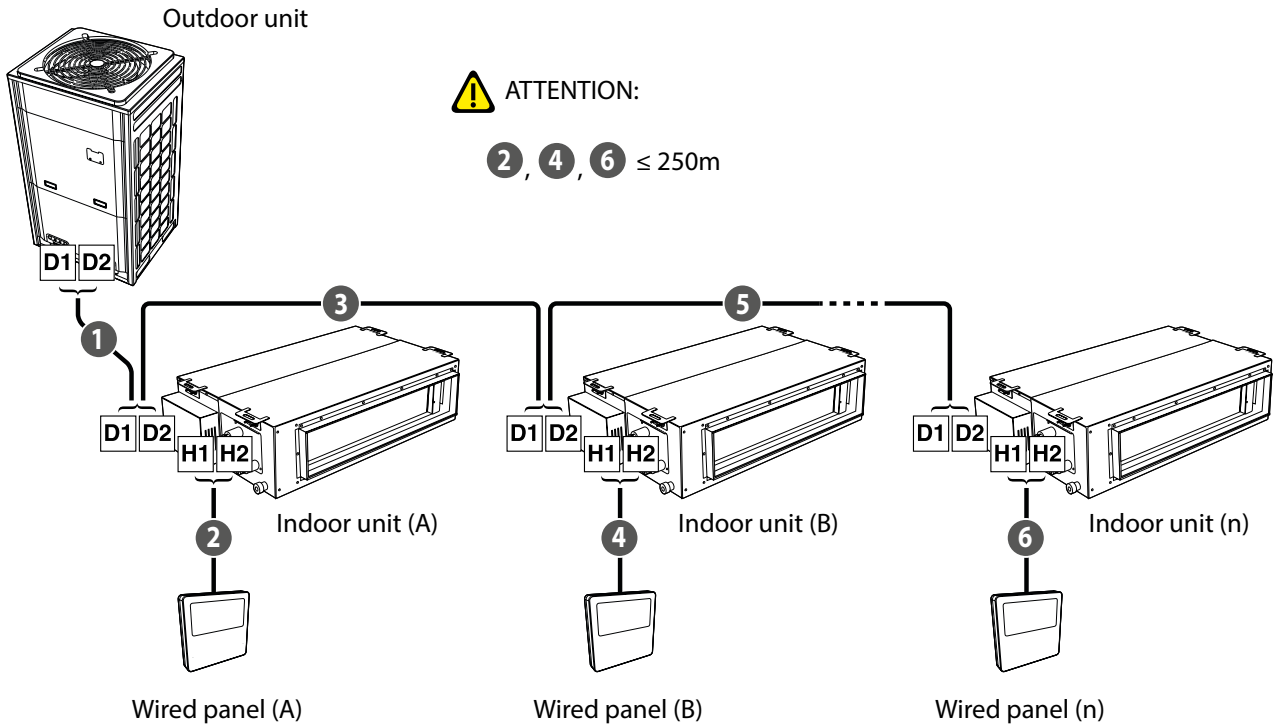
A. SINGLE connection, where the unit (or group of units) is managed by a single wired panel;

B. DUAL connection, where the unit (or group of units) is managed by two wired panels, one of which is the MASTER and the other is the SLAVE.

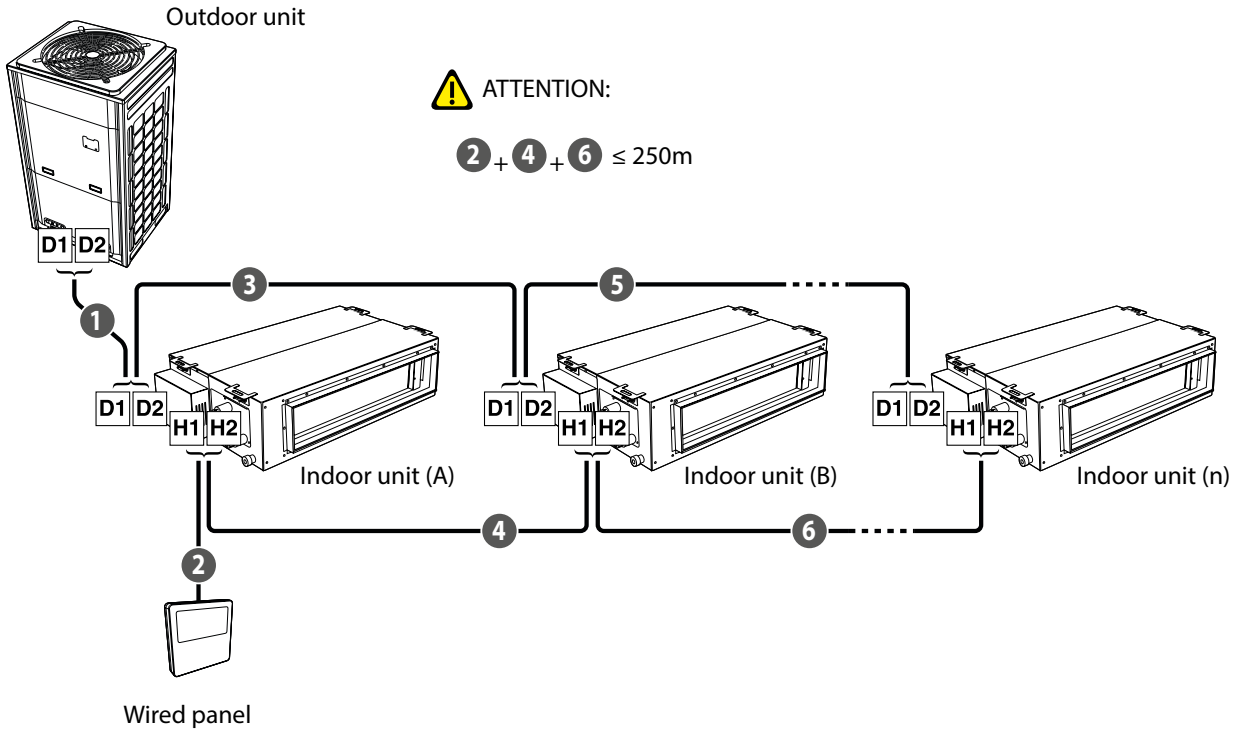


EXAMPLES OF SERIAL CONNECTION BETWEEN WIRED PANEL AND INDOOR UNIT

The first serial connection possibility envisages a panel (reminder: each individual unit of group of units can be managed by a single panel or by two panels connected to the same Indoor unit in MASTER/SLAVE mode, as indicated in the previous page) for each unit; this solution allows customised settings for the timer, setpoint and ventilation speed for each Indoor unit.



The second serial connection possibility envisages only one panel (reminder: each individual unit of group of units can be managed by a single panel or by two panels connected to the same Indoor unit in MASTER/SLAVE mode, as indicated in the previous page) for the overall group of units (a group may comprise max. 16 units); this solution allows unique settings for the timer, setpoint and ventilation speed for all the Indoor units in the group.



WARNING: If the units are installed in a location exposed to electromagnetic interference, shielded twisted pair cables must be used for the communication connections between the units.

WIRED PANEL INSTALLATION PROCEDURE

Connect the wired panel to the unit before supplying power.

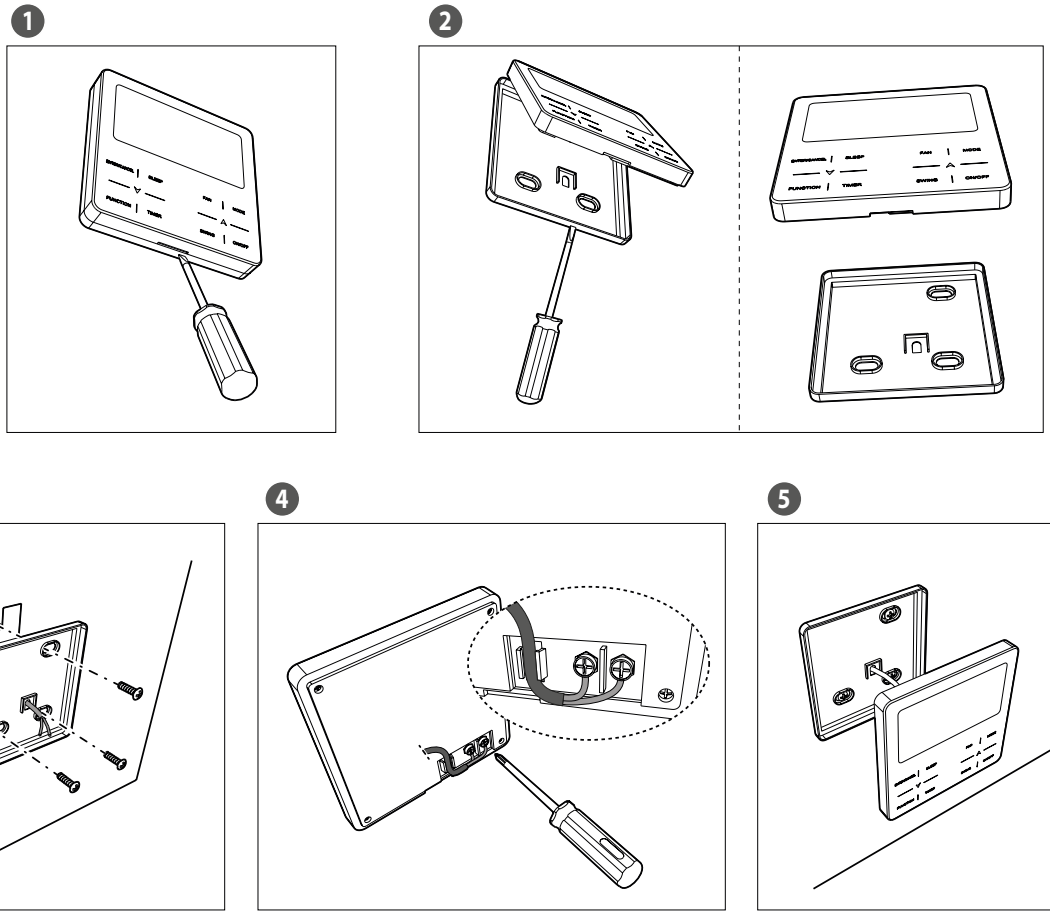
The first operation needed to install the wired panel is to open it using a flat screwdriver by pressing in the specific slot on the base of the panel (Fig. 1).
After opening the wired panel, separate the front part from the rear body (Fig. 2).
Mount the body securely on the wall (in the position specifically chosen during the plant design stage) using the screws supplied with the equipment; before securing the panel, remember to pass the communication cable (not supplied) through the rear hole in the body as shown in the figure 3.

■ *NOTE: The features of the communication cable are given in the following table.*

Connect the serial cable terminals (stripped as required) to the screw terminals on the panel board; after tightening appropriately, secure the cable using the cable clip as shown in the figure. 4.
After connecting the serial cable, close the panel again by aligning the upper and lower bodies and pressing until the upper body hooks up with the lower body (Fig. 5).

■ *Notes for installing the wired panel It is advised not to install the wired panel where it may come into contact with water or direct sunlight; it is also advised to avoid installation too close to sources of intense heat.*

WARNING: MV systems must have a master only one) for correct management of the operating modes. For the setting procedure, refer to the specific section.



Cable type	Max lenght	Size	Note
Standard 2-pole cable with PVC sheath (60227 IEC 52 / 60227 IEC 53)	250 m	from 2x0.75 to 2x1.25mm^2	Serial communication cable NOT supplied with the equipment

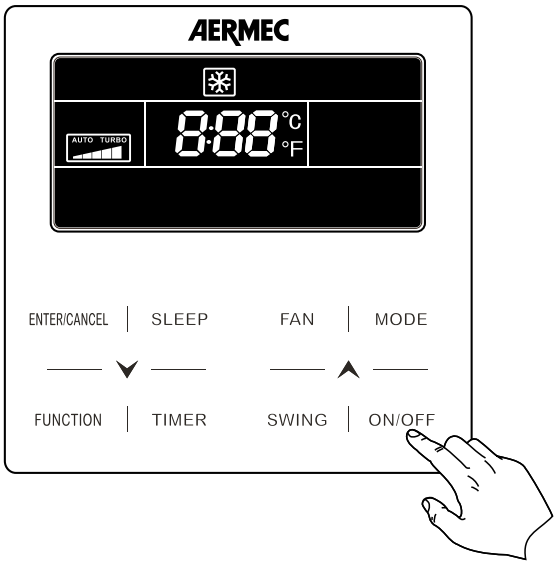
6 FUNCTIONS AVAILABLE FROM WIRED PANEL

SWITCHING THE INDOOR UNIT ON AND OFF

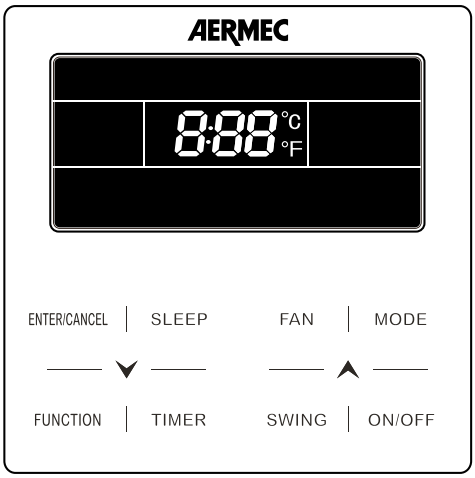
The Indoor unit (or group of indoor units) managed by the wired panel is/are turned on and off using the ON/OFF button; every time it is pressed thereafter will switch the connect Indoor unit ON or OFF.

Switches the unit on or off

Indoor unit ON



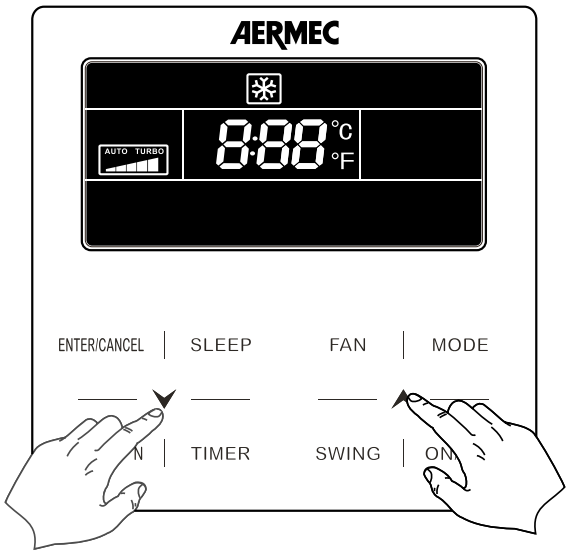
Indoor unit OFF



MODIFYING THE OPERATING TEMPERATURE

To modify the operating temperature, regardless of the operating mode (except for Ventilation Only which does not use the operating setting), simply press the buttons ⮟ or ⮝ respectively to decrease or increase the operating setting by 1°C.

Set the operating temperature

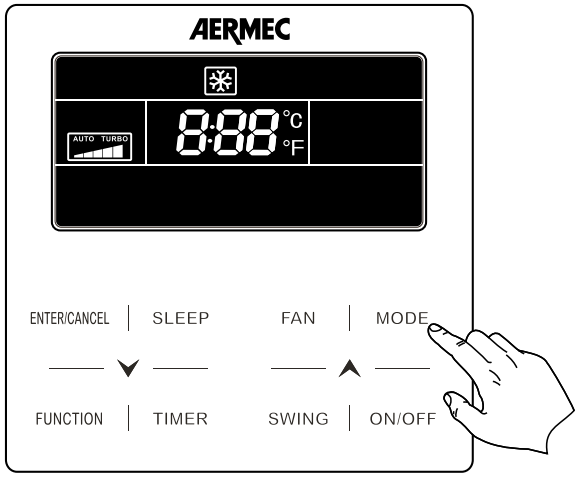


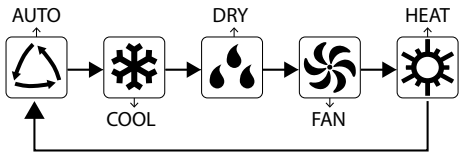
SELECT THE OPERATING MODE FOR THE INDOOR UNIT

The various operating modes have different features and ranges:

— **AUTOMATIC mode (AUTO)**: in this mode, the remote control does not display any set-point value and the fans speed is set to AUTO;
— **COOLING mode (COOL)**: in this mode the user must set the operating set-point and a fan speed; if the room temperature is higher than the set value, which can be seen on the display, the air conditioner will continue to cool the air until the room temperature will reach the setpoint value;
— **DEHUMIDIFICATION mode (DRY)**: in this mode the user must set the operating set-point but not the fan speed (which remains fixed at minimum); if the room temperature is higher than the set value, which can be seen on the display, the air conditioner will continue to dehumidify the air until the room temperature will reach the setpoint value;
— **VENTILATION mode (FAN)**: in this mode the user must set only the fan speed. This mode provides no heating or cooling but only uses the internal fan to ventilate the space;
— **HEATING mode (HEAT)**: in this mode the user must set the operating set-point and a fan speed; if the room temperature is lower than the set value, which can be seen on the display, the air conditioner will continue to heat the air until the room temperature will reach the setpoint value.

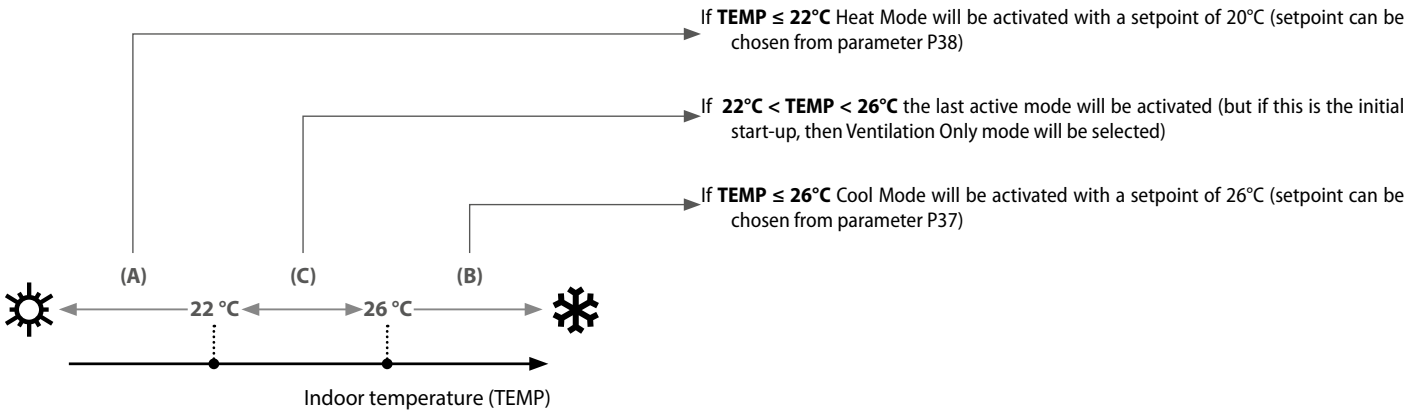
Sets the operating mode





WARNING: AUTO mode is ONLY available on the Indoor unit set as MASTER.

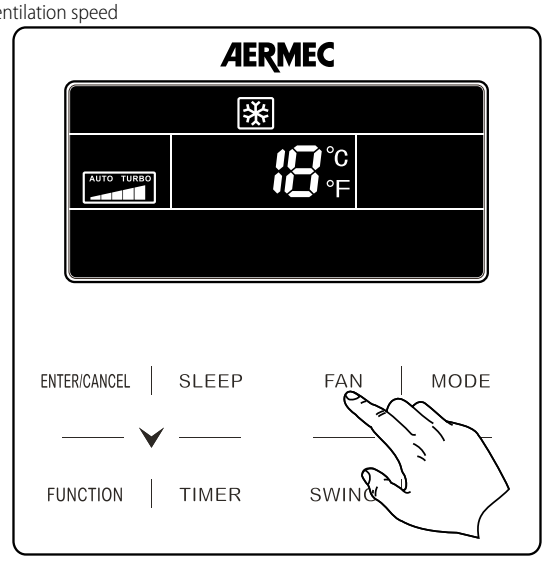
OPERATING LOGIC FOR AUTO MODE

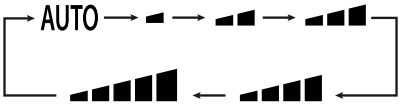


MODIFYING FAN SPEED

The Ventilation speed (in all operating modes except for dehumidification) of the Indoor unit (or group of indoor units) managed by the wired panel can be modified using the FAN button; every time it is pressed thereafter will switch between one speed and the next (following the sequence indicated below).

Setting the ventilation speed



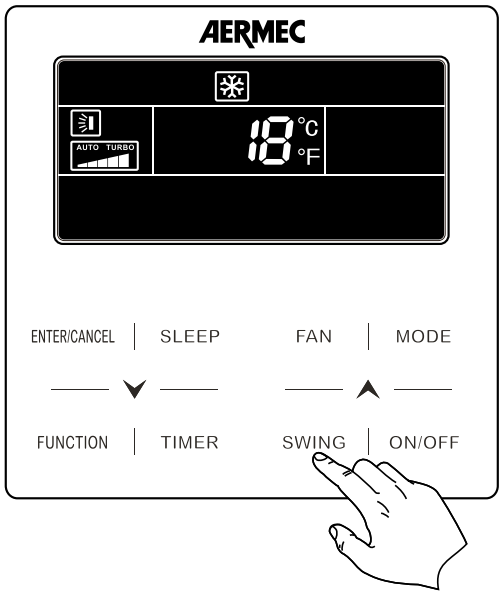


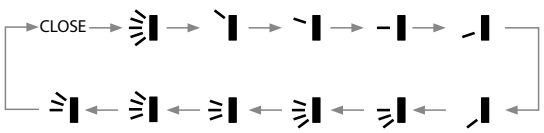
AUTO	AUTOMATIC Speed
	MINIMUM speed
	LOW speed
	MEDIUM Speed
	HIGH speed
	MAXIMUM speed

SET DELIVERY FIN (SWING)

To set delivery fin swing (function NOT AVAILABLE on canalised models), simply press the "SWING" button while the unit is on; every time it is pressed thereafter will switch between one function status to another (following the sequence indicated below).

Set delivery fin (swing)





ACTIVATES OR DEACTIVATES THE QUIET OPERATION

The system envisages two different types of operation: "QUIET" and "AUTO QUIET", which differ in terms of the logic they use to manage fan speed. To set this function, perform the following operations:

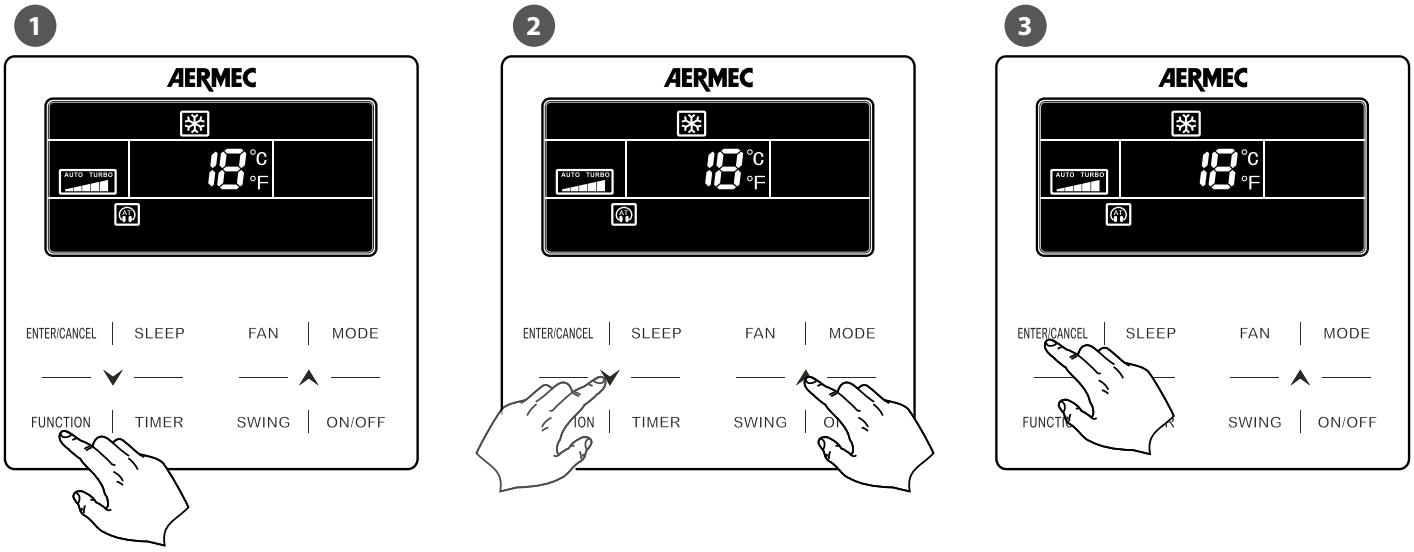
1. Press the "FUNCTION" button until one of the "QUIET" function icons is displayed ; this function directly sets fan speed to minimum, thereby ensuring the least noise possible; or "AUTO QUIET" ; this function manages fan speed in relation to the difference between indoor temperature and the operating setting, in accordance with the following Cooling conditions:

— If the indoor air Temperature is higher than the setting temperature + 2°C, MEDIUM speed will be set;
— If the indoor air Temperature is lower or equal to the setting temperature + 2°C, MINIMUM speed will be set.

Or Heating conditions:
— If the indoor air Temperature is lower than the setting temperature -2°C, MEDIUM speed will be set;
— If the indoor air Temperature is higher than the setting temperature -2°C, MINIMUM speed will be set.
At this stage, the selected icon will begin to flash, indicating that the chosen low noise function mode selected is active.

2. Press buttons o respectively to switch from "QUIET" to "AUTO QUIET" function.
3. Press the "ENTER/CANCEL" button again to activate the selected function.

Set QUIET function

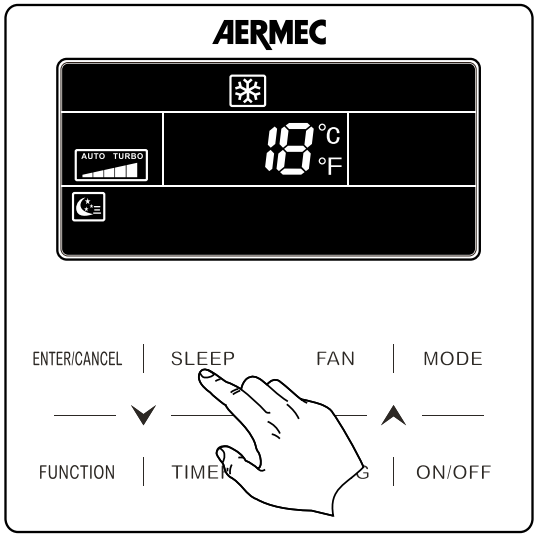


WARNING: to deactivate this function, press the "FUNCTION" button until the function to be cancelled is selected and then press the "ENTER/CANCEL" button.

ACTIVATING/DEACTIVATING THE NIGHT-TIME COMFORT FUNCTION

The night-time comfort function controls the air conditioner in an optimal way during the night. The following logic is applied:
— **In cooling or dehumidification**: the temperature setpoint is gradually increased to guarantee maximum comfort combined with energy saving;
— **In heating**: the temperature setpoint is gradually decreased to guarantee maximum comfort combined with energy saving.
If the unit is on (except in automatic or ventilation mode), pressing the SLEEP button activates or deactivates the night time health function.
If the function is active the icon is displayed on the wired panel .

Setting night-time comfort function



■ *NOTE: the night time health function is deactivated by switching off the unit, and on restarting will not be active; this function can be activated at any time.*

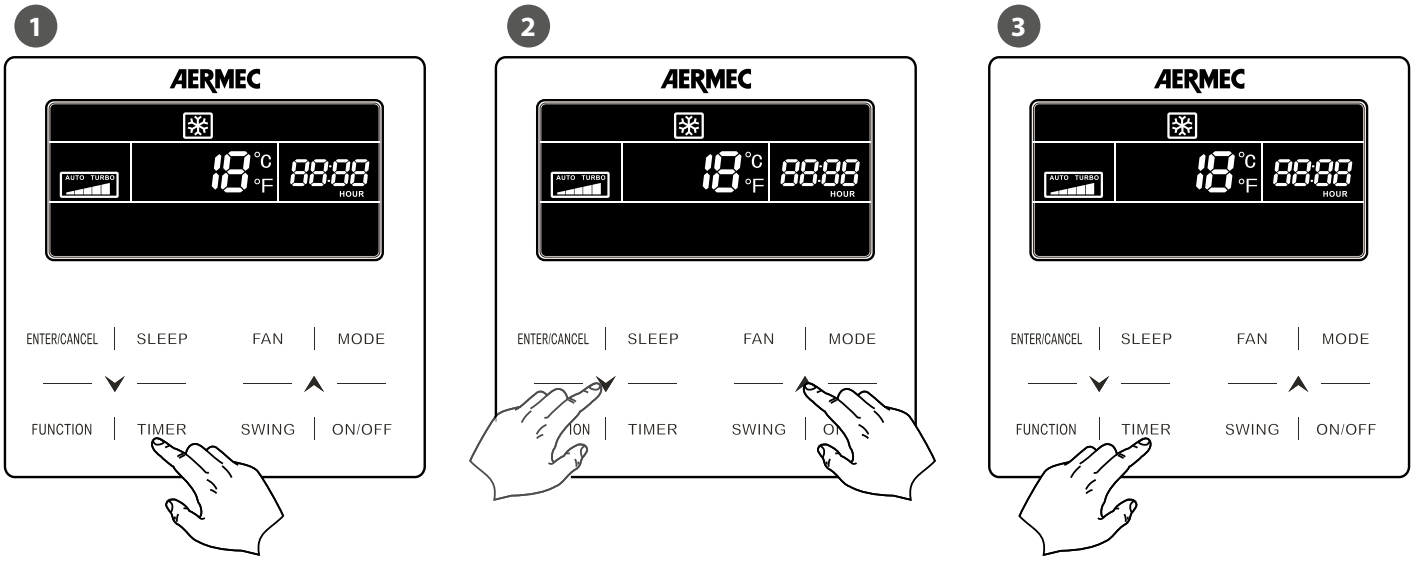
MODIFYING THE PROGRAMMED ON/OFF TIMER - COUNTDOWN MODE

To set programmed ON or OFF operations using the countdown mode, perform the following operations:

1. Press the "TIMER" button (if the Indoor unit is ON, the procedure will set a countdown to switch the unit OFF, otherwise the operations will set a time after which the unit will be switched ON); at this stage, the number of hours is shown after which the ON or OFF operation will be performed (next to this number, the wording "HOUR" will begin to flash);
2. Press the ⮟ or ⮝ buttons, respectively to decrease or increase the counter by 0.5 hours;
3. Press the "TIMER" button again to save the settings; the wording "HOUR" will become steady.

WARNING: after saving data, pressing the "TIMER" button again will cancel the previous setting. Once the unit is switched ON using a timer function, it will resume the functions and settings in use before the system was switched off for the last time.

Set countdown mode



WARNING: the system envisages two types of timer management:

— **COUNTDOWN mode this mode manages programmed unit on-off operations by specifying an "interval" (in hours) after which the unit will switch on or off;**
— **CLOCK mode**: this mode manages programmed unit on-off operations by specifying a time when the operations will be performed (in this case, the system clock is activated and displayed).

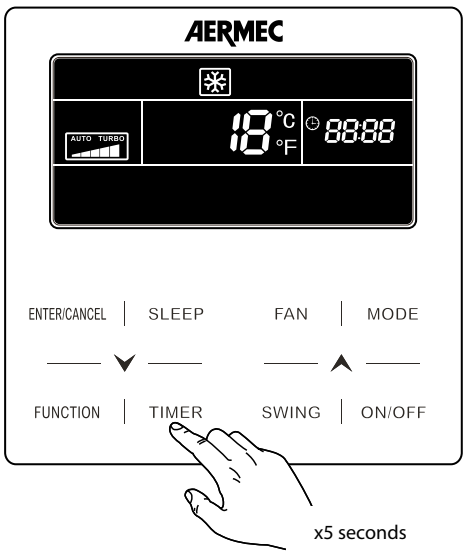
To set the required management mode, use parameter P33 in the Parameters Menu (for more information, see paragraph "operating parameters"); the default is: "COUNT DOWN".

SET SYSTEM TIME (ONLY USED IN CLOCK MODE)

To set the time on the system clock (only used if CLOCK mode is selected in the operating parameters, parameter P33), perform the following operations:

1. Press and hold down the "TIMER" button (5 seconds); at this stage, the symbol 🕒 appears will flash to indicate that system time modification mode has been selected;
2. Press the ⮟ or ⮝ buttons respectively to decrease or increase the clock by 1 minute;
3. Press the "TIMER" button again or the "ENTER/CANCEL" button to save the time and exit the procedure.

Set system time (only used in CLOCK mode)



SET CLOCK MODE MODIFYING THE PROGRAMMED ON/OFF TIMER

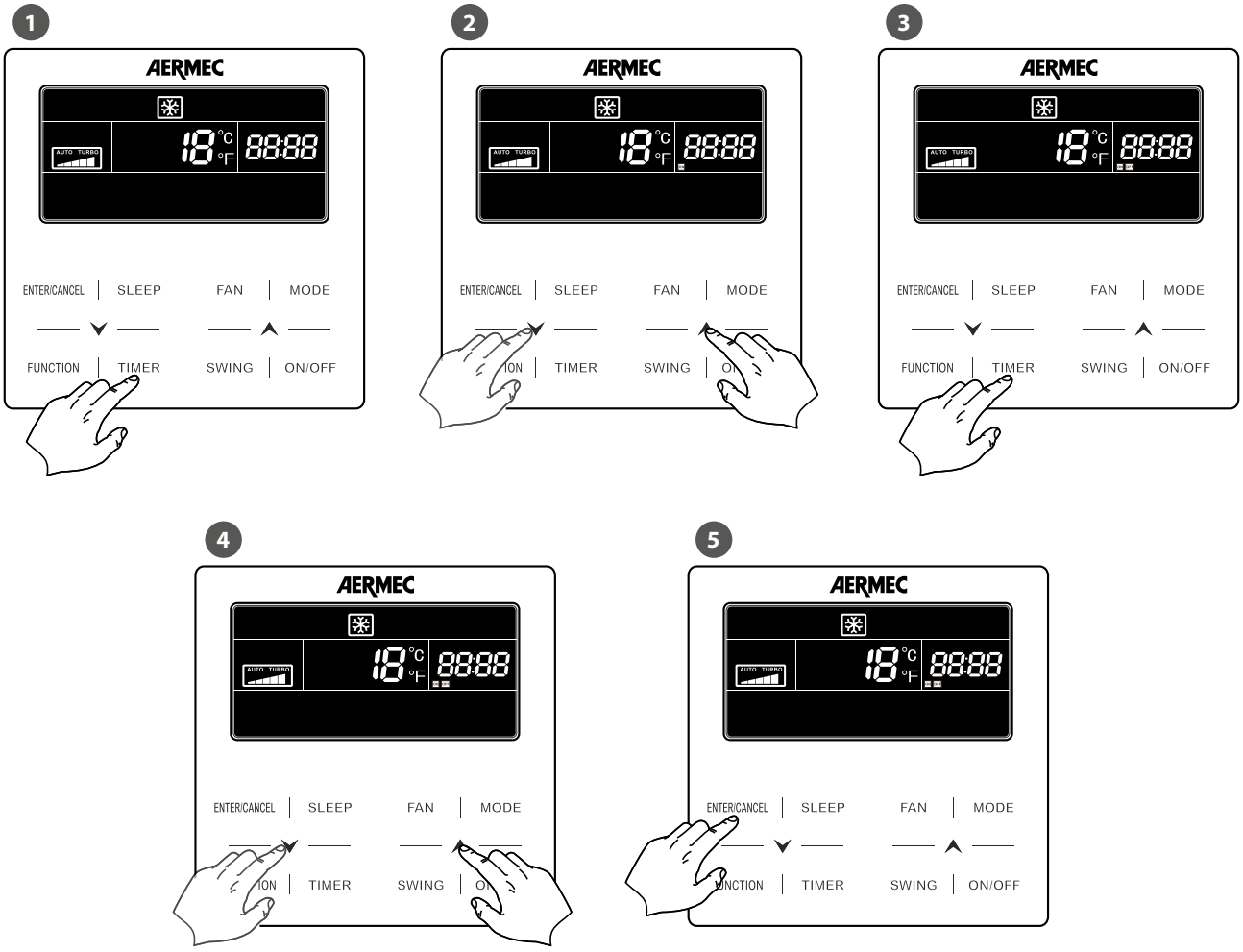
Clock mode is used to manage several functions:
(a) time band management: this function is used to set a switch ON time and a subsequent switch OFF times, thereby defining a time band within which the Indoor unit will operate.
(b) only programmed switch ON: this function is used to set a switch ON time for the unit.
(c) only programmed switch OFF: this function is used to set a switch OFF time for the unit.

To set clock mode functions, perform the following operations:

1. With the unit ON, press the "TIMER" button; at this stage, the working "ON" appears and flashes to indicate the time when the switch ON operation should be performed;
2. Press the ▼ or ▲ buttons respectively to decrease or increase the switch on time by 0,5 hours;
3. Press the "TIMER" button to save the switch ON time, the wording "ON" remains steady, while the wording "OFF" appears and flashes (to indicate that the switch OFF time must be entered);
4. Press the ▼ or ▲ buttons, respectively to decrease or increase the switch off time by 0,5 hours;
5. Press the "ENTER/CANCEL" button to save the time band settings and exit modify mode.

WARNING: after completing the entry of a time band, pressing the "TIMER" button again will activate cancel mode; whenever the "TIMER" button is pressed, the system passes from "ON" time to "OFF" time (the time currently selected will flash); after selecting the time to be cancelled, pressing the "ENTER/CANCEL" button will eliminate it.

Set clock mode



WARNING: To set the various functions described at the beginning of this paragraph identified as (a), (b) and (c), the sequence of operations may be different; there follow the complete sequences for every function:

(a) time band management: (1) + (2) + (3) + (4) + (5)
(b) only programmed switch ON: (1) + (2) + (5)
(c) only programmed switch OFF: (1) + (3) + (4) + (5)

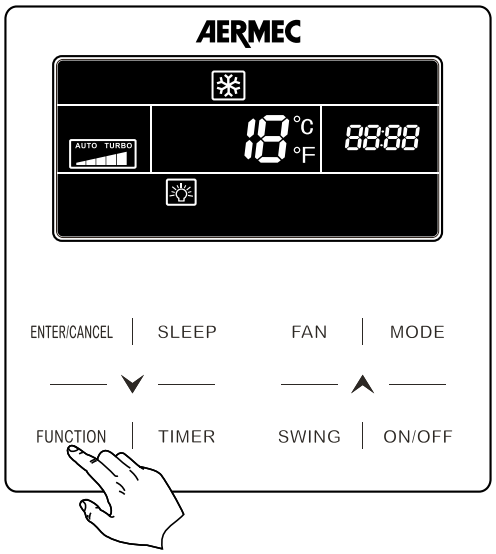
Once the unit is switched ON using a timer function, it will resume the functions and settings in use before the system was switched off for the last time.

SET THE DISPLAY FUNCTION ON THE INDOOR UNIT

To activate or de-activate illumination of the indoor unit display (obviously except for canalised units), perform the following operations:

1. Press the "FUNCTION" key until the icon for this function appears ; at this stage, the selected icon will begin to flash, thereby indicating that the function has been selected;
2. Press the "ENTER/CANCEL" button again to activate the selected function.

Enabling the display on the indoor unit



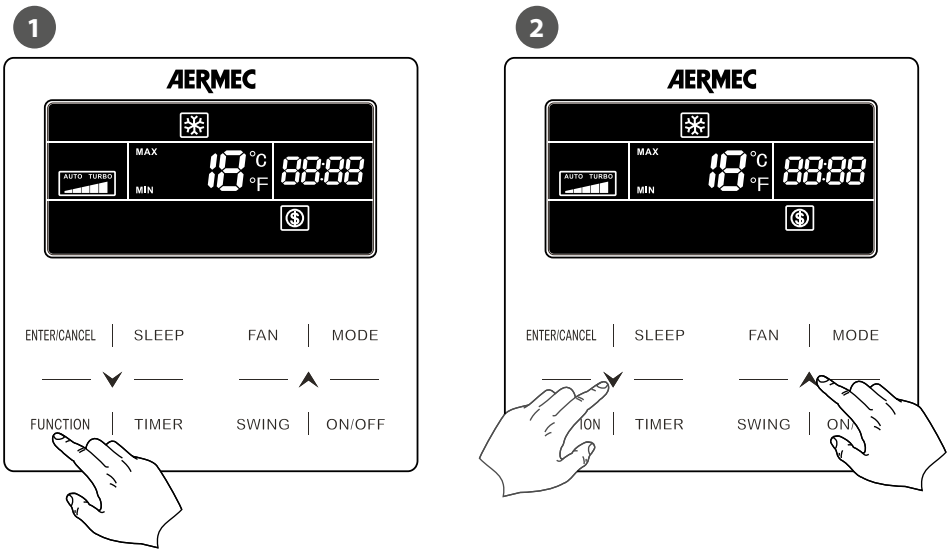
WARNING: to deactivate this function, press the "FUNCTION" button until the function to be cancelled is selected and then press the "ENTER/CANCEL" button.

SET THE ENERGY SAVING FUNCTION ACTIVE ON INDOOR UNIT

This mode is available for heat and cool operations (in the first instance a minimum set is defined, while in the latter case a maximum set is defined as the setpoint limits beyond which it will not be possible to operate the machine); to see this function (with the unit ON), perform the following operations:

1. Press the "FUNCTION" key until the Energy Saving icon appears , at this stage, the selected icon will begin to flash; additionally, the wording "MIN" will be displayed when setting energy saving during cooling mode or "MAX" when setting a value during heating mode.
2. Press the buttons or to set a maximum or minimum value (in relation to the active operating mode) to be used as the limit for the operating setpoint.
3. Press the "ENTER/CANCEL" button again to activate the selected function.

Set the ENERGY SAVING function active on indoor unit



WARNING: to deactivate this function, press the "FUNCTION" button until the function to be cancelled is selected and then press the "ENTER/CANCEL" button.

SET INDOOR UNIT FILTER CLEANING ALARM

This function is used to set a certain number of operating hours after which the unit will send a message requesting that the air filter be pulled out and cleaned (for the filter removal and cleaning procedure, refer to the indoor unit installation manual); to set this function (with the unit ON), perform the following operations:

1. Press the "FUNCTION" key until the Clean Filter icon appears CLEAN; at this stage, the selected icon will begin to flash; The wording "set" will also appear with the current value set for the function.
2. Press buttons ⮟ or ⮝ to set a value for the desired level (to find out the corresponding number of hours associated with each level, refer to the table in the dwgs at the bottom of the page).
3. Press the "ENTER/CANCEL" button again to activate the selected function.

WARNING: the system indicates that filter cleaning is underway by displaying the relative icon CLEAN. To reset the message (and resume hour metering), press the "FUNCTION" button until the CLEAN function is selected in the same way as for the operations described above at point (1) and then press the "ENTER/CANCEL" button.

Set indoor unit FILTER CLEANING alarm

Long period		Medium period		Short period	
SET	Hours	SET	Hours	SET	Hours
10	5500	20	1400	30	100
11	6000	21	1800	31	200
12	6500	22	2200	32	300
13	7000	23	2600	33	400
14	7500	24	3000	34	500
15	8000	25	3400	35	600
16	8500	26	3800	36	700
17	9000	27	4200	37	800
18	9500	28	4600	38	900
19	10000	29	5000	39	1000

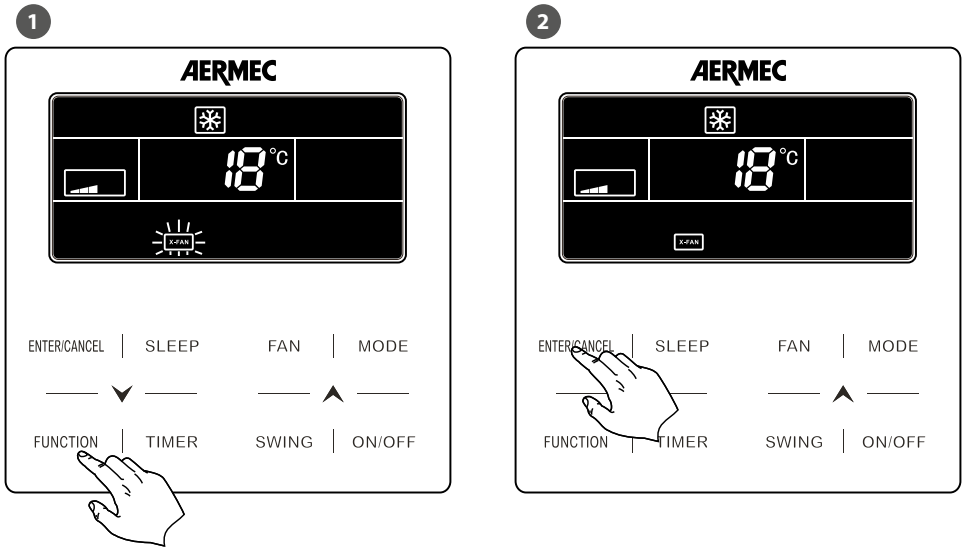
NOTE: if the value 00 is set (default value), this function will be disenabled.

SET THE X-FAN FUNCTION ON INDOOR UNIT

This function is used to dry the coil (only during cool and dehumidification modes) if the unit is switched off before reaching the desired setpoint, in order to avoid the formation of mould or bacteria on the coil; to activate or de-activate this function, perform the following operations:

1. Press the "FUNCTION" key until the icon for this function appears X-FAN; at this stage, the selected icon will begin to flash, thereby indicating that the function has been selected.
2. Press the "ENTER/CANCEL" button again to activate the selected function.

Set the X-FAN function on indoor unit



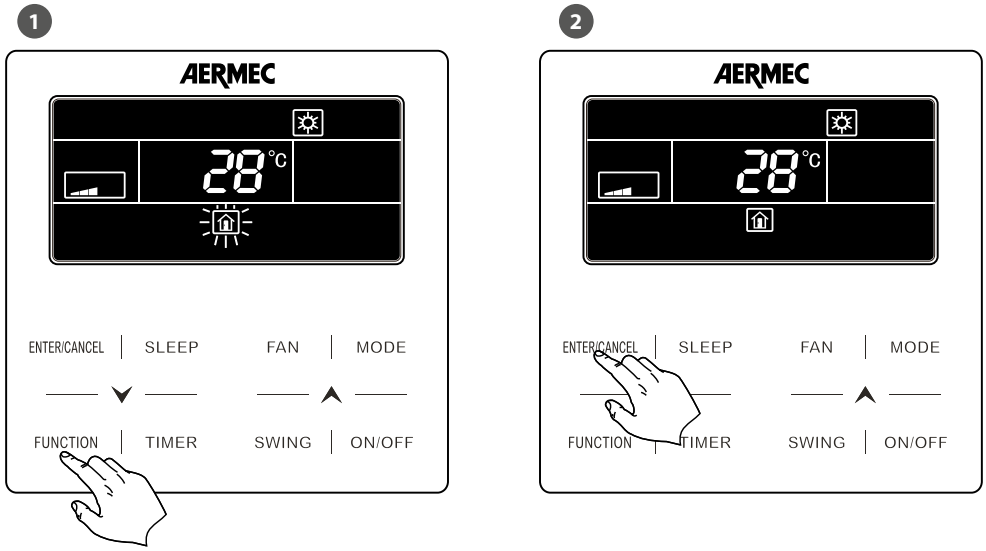
WARNING: to deactivate this function, press the "FUNCTION" button until the function to be cancelled is selected and then press the "ENTER/CANCEL" button.

SET THE ANTIFREEZE FUNCTION ON INDOOR UNIT

This function (only in Heat mode) allows setting a minimum room temperature; after setting it, the function is activated automatically if the room temperature falls below 6°C and is then deactivated when the temperature rises above 10°C; to activate or de-activate this function, perform the following operations:

1. Press the "FUNCTION" key until the icon for this function appears ; at this stage, the selected icon will begin to flash, thereby indicating that the function has been selected.
2. Press the "ENTER/CANCEL" button again to activate the selected function.

Set the ANTIFREEZE function on indoor unit



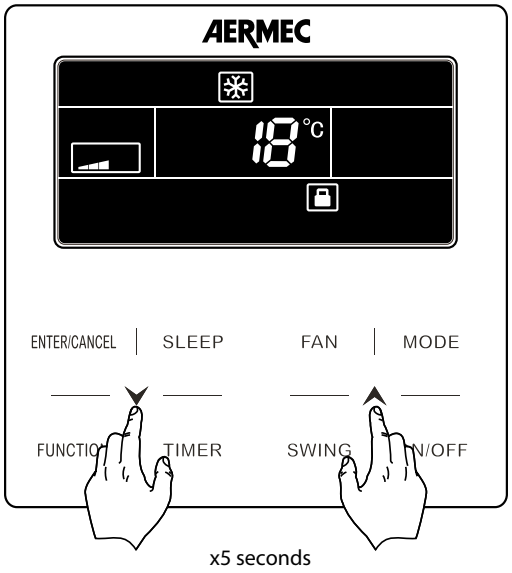
WARNING: to deactivate this function, press the "FUNCTION" button until the function to be cancelled is selected and then press the "ENTER/CANCEL" button

SET KEY LOCK ON WIRED PANEL

This function is used to lock the buttons of the wired panel connected to the unit; to activate or de-activate this function, perform the following operations:

Press buttons ⮟ or ⮝ simultaneously for at least 5 seconds. The icon 🔒 then appears to indicate button lock activation; on pressing these two buttons again (for a further 5 seconds), the unit is unlocked and the icon 🔓 disappears.

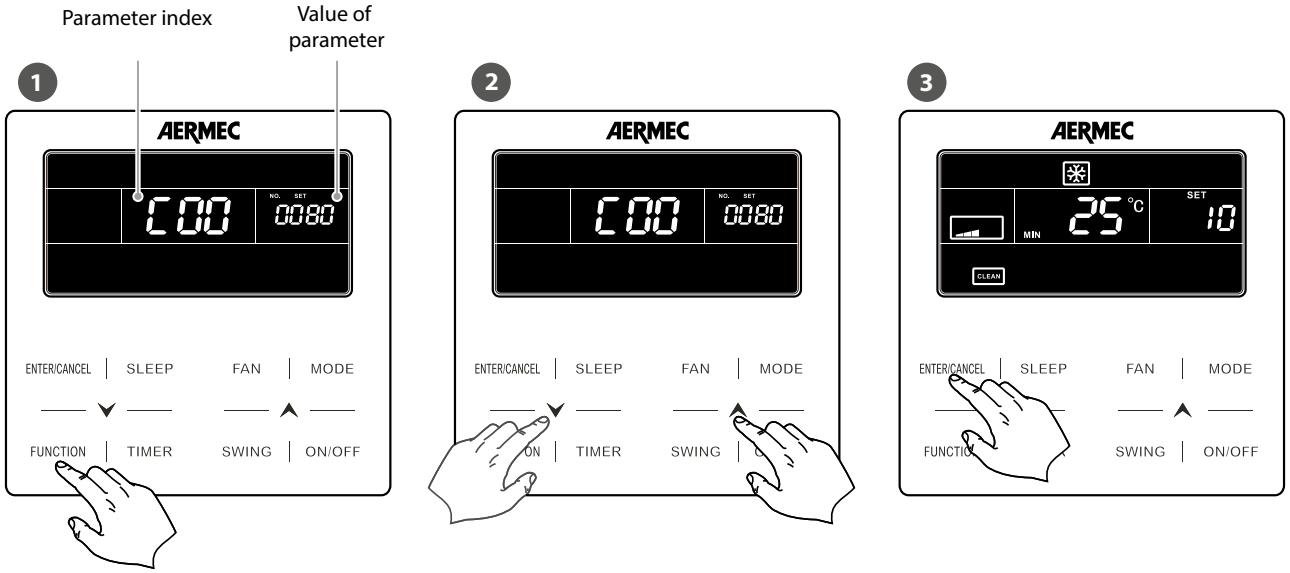
Set key lock on wired panel



7 DISPLAY INDOOR UNIT OPERATING PARAMETERS

This function is used to display a series of operating parameters (each code is associated with the letter "C"); the parameters in this menu may not be modified but only displayed (read only); to read the operating parameters, perform the following operations:

1. Press and hold the FUNCTION key for at least 5 seconds, after which the indication on the currently displayed operating parameter will appear instead of the set temperature (from C00 to C20; for further information on the operating parameter sequence and on the information displayed, refer to the table below).
2. Press the buttons ⮟ or ⮝ to scroll the operating parameters.
3. Press the "ENTER/CANCEL" button again to exit the operating parameter display.

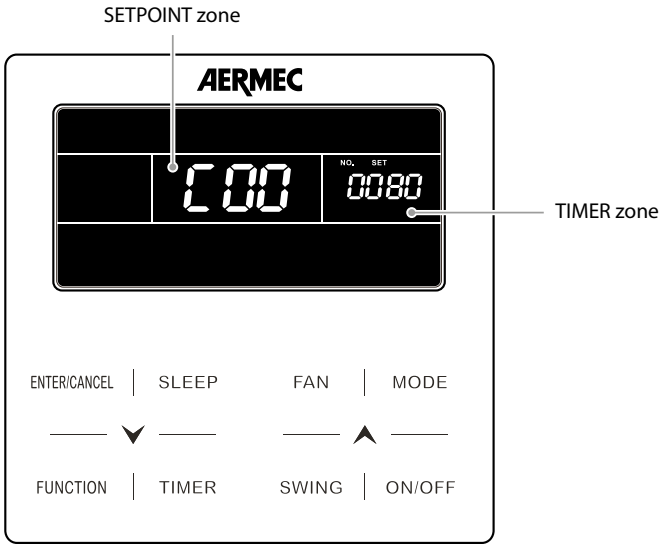


WARNING: the list of operating parameters complete with indexes and an explanation of the values is provided below!

8 LIST OF OPERATING PARAMETERS (READ-ONLY DATA)

Index parameter	Function	Description of operating parameter
C 00	Indoor unit project number	This parameter indicates the project number assigned to the Indoor unit to which the wired panel is connected (if the panel is connected to several units, the lesser project number will be displayed). The project number is a value assigned automatically by the system so that each indoor unit can be specifically identified (auto-addressing function); this number is fundamental for identifying the unit through software in order to monitor the system (for more information as regards system monitoring software, refer to www.aermec.com)
C 01	System error monitor	This parameter is used to scroll all the project numbers (and consequently all the units in the system) to search for any errors; to scroll the list of units, perform the following operations: 1. Select the operating parameter "C01"; 2. Press the "MODE" button to enter the list of indoor units (after entering this list, the setpoint area will display any alarm codes while the timer zone will display the project number for the indoor unit in question; if the Indoor unit currently displayed is the system master, the "MASTER" icon will be displayed); 3. Press the arrow buttons to scroll the indoor units; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters **WARNING: if an error occurs in one or more indoor units when assigning the project number, in place of this number (in the timer zone) error code C5 will be displayed; in this case, the system initialisation procedure must be repeated (for more information as regards system initialising, contact the area technical assistance service)**
C 03	Total number of indoor units in the system	This parameter indicates (in the timer zone) the total number of indoor units connected to the system
C 06	Display the operating priority of these indoor units	This parameter displays the priority assigned to each Indoor unit; priority means which units are used in case the system detects power drops, thereby making it possible to select which indoor units should be given priority, as required, over other units (in this parameter, this priority has a value of 01 while the standard priority has a value of 00); to scroll the priorities assigned to each unit, perform the following operations: 1. Select the operating parameter "C06"; 2. Press the "MODE" button to enter the list of indoor units (after entering this list, the setpoint area will display the project number for the indoor unit in question while the timer zone will display the priority setting; if the Indoor unit currently displayed is the system master, the "MASTER" icon will be displayed); 3. Press the arrow buttons to scroll the indoor units; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
C 07	Display the room temperature	This parameter is used to display the room temperature read on each indoor unit (in accordance with the specific settings of each individual unit); to display the room temperatures, perform the following operations: 1. Select the operating parameter "C07"; 2. Press the "MODE" button to enter the list of indoor units (after entering this list, the setpoint area will display the number of the unit while the timer zone will display the project number for the indoor unit in question); if the Indoor unit currently displayed is the system master, the "MASTER" icon will be displayed); 3. Press the arrow buttons to scroll the indoor units; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
C 08	Display the current setting for the filter cleaning alarm	This parameter indicates (in the timer zone) the number of days set as the period after which a message will be displayed requesting removal and cleaning of the air filter on the Indoor unit to which the wired panel is connected
C 09	Display the address of the wired panel	This parameter indicates (in the timer zone) the address assigned to the wired panel (this address is fundamental if two different wired panels are used to manage one or more units, since the two panels must have different addresses)
C 11	Number of units in the group	This parameter indicates (in the timer zone) the number of units in any group connected to the wired panel
C 12	Display external temperature;	This parameter indicates (in the timer zone) the temperature of the external air

Index parameter	Function	Description of operating parameter
C 18	Display all project numbers at the same time	This parameter is used to scroll all project numbers (and consequently all the units in the system) associated with the unit number (in relation to the total number of internal units in the system); to scroll the list of units, perform the following operations: 1. Select the operating parameter "C18"; 2. Press the "MODE" button to enter the list of indoor units (after entering this list, the setpoint area will display the number of the unit while the timer zone will display the project number for the indoor unit in question); if the Indoor unit currently displayed is the system master, the "MASTER" icon will be displayed); 3. Press the arrow buttons to scroll the indoor units; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters **ATTENTION:** • **After displaying parameter C18, all indoor unit wired panels will display (in the timer zone) their specific project numbers, which will remain displayed until this function is closed;** • **Reminder: it will not be possible to enter this parameter if access is attempted from a slave wired panel (installation with two wired panels connected to the same indoor unit);** • **reminder: pressing the "ON/OFF" button on any wired panel during this function will immediately finish it;** • **If, when displaying parameter C18, no operation is performed for more than 20 seconds, the function is automatically exited.**
C 20	Parameter reserved	



9 ACTIVATION OF INDOOR UNIT OPERATING PARAMETER MODIFICATION MENU

WARNING: accidental modification of these parameters may cause malfunctions or block the entire system; reminder: setting or modifying these parameters must ONLY be performed by the technical assistance service or personnel having the necessary technical skills.

This function is used to modify a series of operating parameters (each code is associated with the letter "P"); to set these operating parameters, perform the following operations:

1. Press and hold the FUNCTION key for at least 5 seconds, after which the indication on the currently displayed operating parameter will appear instead of the set temperature (from C00 to C20; for further information on the operating parameter sequence and on the information displayed, refer to the table below).
2. Press and hold the FUNCTION key again for at least 5 seconds, after which the first editable parameter identified by the code P00 will appear (sequence from P00 to P54); for further information on the operating parameter sequence and on the information displayed, refer to the table below).
3. Press the buttons ▼ or ▲ to scroll the operating parameters. Press MODE button to enter parameter setting. At that time, parameter value is blinking. Press ▼ or ▲ button to adjust the parameter value and press SWING/ENTER button to finish setting.
4. Press the "ENTER/CANCEL" button again to exit the operating parameter display.

LIST OF OPERATING PARAMETERS

Index parameter	Function	Default	Range	Description of operating parameter
P 10	Set the system MASTER unit	00	00: Slave Unit 01: MASTER unit	This parameter is used to set an Indoor unit as the system master; for these systems, the presence of a master unit IS ABSOLUTELY COMPULSORY; inasmuch, one of the indoor units must be set as such; reminder: the master unit is the reference unit for solving mode conflicts; consequently, if the master changes its operating mode, so does the entire system; to set the parameter, proceed as follows: 1. Select the operating parameter "P10"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters **ATTENTION:** • **after setting a master, its wired panel will indicate its master status by means of an icon;** • **if, after setting a unit as the master, the operation is repeated on another Indoor unit, the master status will be modified, and the system will be updated with the new reference unit**
P 11	Enable infra-red remote controls	01	00: NOT enabled 01: enabled	This parameter is used to enable or disenable the infra-red remote controls on the system (if envisaged); this parameter can ONLY be set from the panel of the master indoor unit; to set the parameter, proceed as follows: 1. Select the operating parameter "P11"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 13	Set the address of the wired panel	01	01: MASTER panel 02: SLAVE panel	This parameter is used to set the address to be assigned to the wired panel; this parameter is used if two panels are connected to the same machine or the same group in order to set two different addresses; to set the parameter, proceed as follows: 1. Select the operating parameter "P13"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 14	Set the number of units in the group	01	00: test disenabled 01-16: group with ... units	This parameter performs a test on the group (if a group has been created) in order to specify how many indoor units belong to it. This test checks whether the number set in the parameter matches the number of units detected by the system in the group; if this function is disenabled (value 00) and the wired panel manages a group, no alarms will be displayed for any malfunctions in this group; to set the parameter, proceed as follows: 1. Select the operating parameter "P14"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 16	Set unit of measure	00	00: °C 01: °F	This parameter specifies which unit of measure is used to display temperatures; to set the parameter, proceed as follows: 1. Select the operating parameter "P16"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 30	Setting the useful head for the fans of duct type indoor units	05	01-09: Useful head level	There are two kinds of Useful head level: • 5 levels: 03, 04, 05, 06, 07; • 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09. The wired panel is compatible with different types of indoor units, and it is equipped with a 1 to 9 useful pressure level selection. When the indoor unit with 5 useful pressure levels receive a level setting lower than 3 from the remote control, the pressure is set to the 3rd level; when it is higher than 7, it is set to the 7th level.
P 31	Parameter not used	---	---	---
P 33	Set type of clock	00	00: countdown 01: Clock	This parameter is used to select which type of clock must be activated on the system; possible modes are: • COUNTDOWN: management of timed actions after a certain number of hours (for more information about this mode, refer to page "6.9 Modifying the programmed ON/OFF timer - COUNTDOWN mode p. 16" in this manual); • STANDARD CLOCK: management of timed operations using the system clock (this clock must be updated by the user. For more information in this regard, refer to page "6.10 Set system time (only used in CLOCK mode) p. 16" in this manual); To set the parameter, proceed as follows: 1. Select the operating parameter "P33"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 34	Set repetition of time settings	00	00: repetition disenabled 01: repetition enabled	This parameter is used to set (only if parameter P33 is set with the value 01) the repetition of time settings; if the repetition function is disenabled, the time settings will be performed only once and they will have to be set again every day; to set the parameter, proceed as follows: 1. Select the operating parameter "P34"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters

Index parameter	Function	Default	Range	Description of operating parameter
P 37	Cool set for AUTO mode	25°C (77°F)	17°C~30°C (63°F~86°F)	This parameter is used to define a cool setpoint used in AUTO mode (reminder: the auto mode is only available on the master unit); to set the parameter, proceed as follows: 1. Select the operating parameter "P37"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 38	Heat set for AUTO mode	20°C (68°F)	16°C~29°C (61°F~84°F)	This parameter is used to define a heat setpoint used in AUTO mode (reminder: the auto mode is only available on the master unit); to set the parameter, proceed as follows: 1. Select the operating parameter "P38"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 43	Set indoor unit priority	00	00: normal priority 01: high priority	This parameter is used to select the priority to be assigned to the Indoor unit connected to the wired panel; this priority, if the unit detects power drops, makes it possible to exclude indoor units having normal priority in favour of those with high priority; to set the parameter, proceed as follows: 1. Select the operating parameter "P43"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 46	Enable filter cleaning alarm	00	00: filter cleaning alarm disenabled 01: filter cleaning alarm enabled	This parameter is used to enable or disenable the filter cleaning alarm (set using the specific function"6.14 Set indoor unit FILTER CLEANING alarm p. 19" in this manual on page); to set the parameter, proceed as follows: 1. Select the operating parameter "P46"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 49	Set delivery fin standard opening	01	01: 25° opening 02: 30° opening 03: 35° opening	This parameter is used to set the standard opening (i.e. the position taken by the delivery fin once the unit is switched on for heat or cool) of the indoor units fitted with motor-driven delivery fins (inasmuch, canalised units are excluded); to set the parameter, proceed as follows: 1. Select the operating parameter "P49"; 2. Press the "MODE" button to enter the parameter modify mode; 3. Press the arrow buttons to set the required value; 4. Press the "ENTER/CANCEL" button to return to the list of operating parameters
P 50	Parameter reserved	18°C	---	---
P 51	Parameter reserved	22°C	---	---
P 54	Parameter reserved	00	---	---

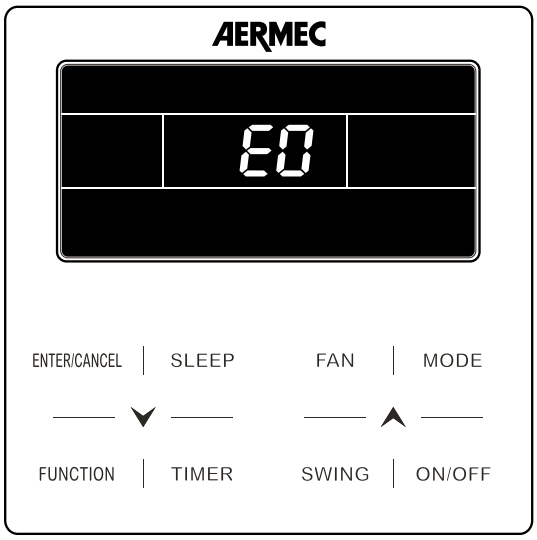
10 ACTIVATION OF THE MENU TO MODIFY THE ADVANCED OPERATING PARAMETERS OF THE INDOOR UNIT

Press and hold the FUNCTION key for at least 5 seconds, after which the indication on the currently displayed operating parameter will appear instead of the set temperature (from C00 to C20; for further information on the operating parameter sequence and on the information displayed, refer to the table below).
Press the MODE key 3 times in succession (with intervals of less than 1 second).
Press and hold the FUNCTION key again for at least 5 seconds, after which the first editable parameter identified by the code P00 will appear (sequence from P00 to P54); for further information on the operating parameter sequence and on the information displayed, refer to the table below).
Press the buttons ▼ or ▲ to scroll the operating parameters.
Press the MODE key to access the operating parameter to be modified; then the value of the operating parameter flashes and it can be modified by using the keys ▼ or ▲.
Press the "ENTER/CANCEL" button again to exit the operating parameter display.

Index parameter	Function	Default	Range	Description of operating parameter
P 20	Setting of the temperature sensor to be used on the indoor unit	03	01: Intake temperature sensor 02: Temperature sensor pm external panel flush 03: Intake temperature sensor for cold mode, dehumidification and ventilation only, sensor on flush panel for hot mode 04: Sensor on flush panel for cold mode, dehumidification and ventilation only, intake temperature sensor for heating mode	In case of master and slave control panels and should you wish to use the temperature sensor on the flush panel, by default the sensor of the master flush panel is selected and used. Note: 1. In automatic mode, the room temperature sensor settings are not valid for a common indoor unit however the set value will still be stored. 2. The ambient temperature sensor located on the control panel when the reference indoor unit is a heat recovery unit cannot be selected. The intake temperature sensor will be selected by default.

11 DISPLAY OPERATING ERRORS OR SYSTEM MESSAGES

These units envisage signals for various alarms, operating errors or system messages using a code shown on the wired panel display (as well as on the indoor unit display for units where this is envisaged); alarm codes and related causes are listed below.



Current alarm code (if there are several simultaneous alarms, the codes will be displayed on rotation)

WARNING: reminder: in the event of an alarm, the unit must be switched off and the technical assistance service contacted for any kind of intervention on the unit.

Code	Type signal	Description
E0	Outdoor unit	Outdoor unit error
E1	Outdoor unit	High pressure alarm
E2	Outdoor unit	Low temperature alarm (discharge)
E3	Outdoor unit	Low pressure alarm
E4	Outdoor unit	Excessive temperature on compressor discharge
Ed	Outdoor unit	Low Temperature Protection of Driver Module
F0	Outdoor unit	Outdoor unit electronic card malfunction
F1	Outdoor unit	High pressure sensor alarm
F2	Outdoor unit	Inlet Tube Temperature Sensor Error of Plate Type Heat Exchanger
F3	Outdoor unit	Low pressure sensor alarm
F4	Outdoor unit	Outlet Tube Temperature Sensor Error of Plate Type Heat Exchanger
F5	Outdoor unit	Temperature sensor error on compressor discharge 1
F6	Outdoor unit	Temperature sensor error on compressor discharge 2
F7	Outdoor unit	Temperature sensor error on compressor discharge 3
F8	Outdoor unit	Temperature sensor error on compressor discharge 4
F9	Outdoor unit	Temperature sensor error on compressor discharge 5
FA	Outdoor unit	Temperature sensor error on compressor discharge 6
FH	Outdoor unit	Compressor power supply current sensor error 1
FC	Outdoor unit	Compressor power supply current sensor error 2
FL	Outdoor unit	Compressor power supply current sensor error 3
FE	Outdoor unit	Compressor power supply current sensor error 4
FF	Outdoor unit	Compressor power supply current sensor error 5
FJ	Outdoor unit	Compressor power supply current sensor error 6
FP	Outdoor unit	Malfunction of DC motor
FU	Outdoor unit	Temperature sensor error on compressor 1
Fb	Outdoor unit	Temperature sensor error on compressor 2
Fd	Outdoor unit	Exchange module outlet tube temperature sensor error
Fn	Outdoor unit	Exchange module inlet tube temperature sensor error
Fy	Outdoor unit	Water temperature probe error
J1	Outdoor unit	Over-current protection on compressor 1
J2	Outdoor unit	Over-current protection on compressor 2
J3	Outdoor unit	Over-current protection on compressor 3
J4	Outdoor unit	Over-current protection on compressor 4
J5	Outdoor unit	Over-current protection on compressor 5
J6	Outdoor unit	Over-current protection on compressor 6
J7	Outdoor unit	4 way valve protection
J8	Outdoor unit	High pressure protection
J9	Outdoor unit	Low pressure protection
JA	Outdoor unit	Abnormal pressure protection
JC	Outdoor unit	Flow switch alarm protection
JL	Outdoor unit	Protection of Low High-pressure
JE	Outdoor unit	Oil Return Pipe is Blocked
JF	Outdoor unit	Oil Return Pipe is Leaking
JJ	Outdoor unit	Inlet water temperature too low protection
b1	Outdoor unit	Ambient air temperature probe

Code	Type signal	Description
b2	Outdoor unit	Temperature probe 1 error for defrosting
b3	Outdoor unit	Temperature probe 2 error for defrosting
b4	Outdoor unit	Under-cooling probe error (fluid leak)
b5	Outdoor unit	Under-cooling probe error (gas leak)
b6	Outdoor unit	Error on fluid separator inlet probe
b7	Outdoor unit	Error on fluid separator outlet probe
b8	Outdoor unit	Humidity probe error
b9	Outdoor unit	Heat Exchanger Gas-out Temperature Sensor Error
bA	Outdoor unit	Oil return temperature probe error
bH	Outdoor unit	System Clock Malfunction
bE	Outdoor unit	Malfunction of Entry Tube Temperature Sensor of Condenser
bF	Outdoor unit	Malfunction of Exit Tube Temperature Sensor of Condenser
bJ	Outdoor unit	High and Low Pressure Sensors are Connected Inversely
bP	Outdoor unit	Oil return temperature probe error 2
bU	Outdoor unit	Oil return temperature probe error 3
bb	Outdoor unit	Oil return temperature probe error 4
bd	Outdoor unit	Air-in Temperature Sensor Error of Subcooler
bn	Outdoor unit	Liquid-in Temperature Sensor Error of Subcooler
by	Outdoor unit	Water-out Temperature Sensor Error
P0	Outdoor unit	Compressor Drive Board Error
P1	Outdoor unit	Inverter compressor control card malfunction
P2	Outdoor unit	Protection of Compressor Drive Board Power Supply
P3	Outdoor unit	Inverter compressor re-start protection
H0	Outdoor unit	Error of Fan Drive Board
H1	Outdoor unit	Malfunction of Fan Drive Board
H2	Outdoor unit	Fan power supply module protection
GH	Outdoor unit	PV DC/DC Protection
L0	Indoor unit	Indoor unit error
L1	Indoor unit	Fan protection
L2	Indoor unit	Electric resistor protection
L3	Indoor unit	Condensate collection basin full
L4	Indoor unit	Wired panel power supply error
L5	Indoor unit	Anti-freeze protection
L6	Indoor unit	Mode conflict
L7	Indoor unit	No master set on system
L8	Indoor unit	Insufficient power supply
L9	Indoor unit	Too many units in the group
LA	Indoor unit	Indoor Units Incompatibility Error
LH	Indoor unit	Poor air quality warning
LC	Indoor unit	Incompatibility between indoor and outdoor units
LF	Indoor unit	Shunt valve setting error
LJ	Indoor unit	wrong setting of function DIP switch
LP	Indoor unit	Zero-crossing malfunction of PG motor
LU	Indoor unit	Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System
Lb	Indoor unit	Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System
Ld	Indoor unit	Indoor fan 2 error
Ln	Indoor unit	Lift panel return air frame reset exception
d1	Indoor unit	Indoor unit control electric card error
d3	Indoor unit	Room air sensor error
d4	Indoor unit	Error on temperature probe on coil inlet
d5	Indoor unit	Malfunction of Middle Tube Temperature Sensor
d6	Indoor unit	Error on temperature probe on coil outlet
d7	Indoor unit	Humidity probe error
d8	Indoor unit	Water temperature probe error
d9	Indoor unit	Jumper cap position error
dA	Indoor unit	Indoor unit addressing error
dH	Indoor unit	Connection error between wired panel and Indoor unit control card
dC	Indoor unit	DIP switch setting error for selecting size
dL	Indoor unit	Room air probe error
dE	Indoor unit	Carbon dioxide probe error
db	Indoor unit	Indicates that Debug mode is active
dn	Indoor unit	Swing Assembly Error
dy	Indoor unit	Water temperature sensor error
y1	Indoor unit	Inlet Pipe Temperature Sensor 2 Error
y2	Indoor unit	Outlet tube temperature probe 2 error
y3	Indoor unit	Central tube temperature probe 2 error
y7	Indoor unit	Fresh-air inlet temperature probe error
y8	Indoor unit	Indoor Air Box Sensor Error
y9	Indoor unit	Outdoor Air Box Sensor Error
yA	Indoor unit	IFD error
yH	Indoor unit	Fresh air temperature sensor error
yC	Indoor unit	Return air inlet temperature sensor error
yL	Indoor unit	Air-return Outlet Temperature Sensor Error

Code	Type signal	Description
yE	Indoor unit	High Liquid Level Switch Error
yF	Indoor unit	Low Liquid Level Switch Error
o0	Indoor unit	Motor drive error
o1	Indoor unit	Low Voltage of IDU Bus Bar
o2	Indoor unit	High Voltage of IDU Bus Bar
o3	Indoor unit	IDU IPM module protection
o4	Indoor unit	IDU Startup Failure
o5	Indoor unit	Whole unit over-current protection
o6	Indoor unit	IDU current detective electric circuit error
o7	Indoor unit	Indoor unit fan motor error
o8	Indoor unit	IDU Driver Communication Error
o9	Indoor unit	Communication Error of IDU Master Controller
oA	Indoor unit	High temperature of IDU module
oC	Indoor unit	Indoor unit charging circuit error
ob	Indoor unit	Temperature sensor error of IDU module
A0	Status codes	Unit on hold because of debug mode
A1	Status codes	Compressor operating parameter control procedure underway
A2	Status codes	Insufficient refrigerant gas quantity warning (replenishment required)
A3	Status codes	Defrosting cycle currently underway
A4	Status codes	Oil return
A5	Status codes	Unit in test mode
A8	Status codes	Pump down mode currently underway
A9	Status codes	Restore function in progress
AH	Status codes	Heating
AC	Status codes	Cooling
AF	Status codes	Ventilation
AJ	Status codes	Indoor unit air filter cleaning warning
AU	Status codes	System emergency stop (from remote system)
Ab	Status codes	System emergency stop
Ad	Status codes	Protected operation
An	Status codes	Lock status
Ay	Status codes	Shield mode
n3	Status codes	Compulsory defrosting
95	Status codes	Setting of ordinary units and high sensible heat units
97	Status codes	Select degree Celsius or Fahrenheit
98	Status codes	Discharge low temperature protection revision value b
99	Status codes	Thawing mode setting
9L	Status codes	Setting of static pressure
9E	Status codes	EVI Operating Mode
9F	Status codes	System mandatory cooling mode
9P	Status codes	Unit export area setting PV
9U	Status codes	Grid voltage system configuration
9b	Status codes	Anti-condensation temperature setting
9d	Status codes	Setting of target degree of super-cooling of ODU
9n	Status codes	PV grid-connected settings
9y	Status codes	Working mode of compressor heating belt
U2	Debug codes	Jumper cap setting error on outdoor unit (capacity selector)
U3	Debug codes	Protection on system power supply phase sequence
U4	Debug codes	Refrigerant low protection
U5	Debug codes	Addressing error on compressor control card
U6	Debug codes	Electronic expansion valve abnormal function alarm
U7	Debug codes	Grid DRED0 Response Protection
U8	Debug codes	Indoor unit refrigerant circuit malfunction
U9	Debug codes	Indoor unit refrigerant circuit malfunction
UA	Debug codes	Overvoltage protection of DC bus bar in power grid side
UH	Debug codes	Undervoltage protection of DC bus bar in power grid side
UC	Debug codes	Master unit set successfully
UE	Debug codes	Insufficient gas added
UL	Debug codes	Emergency mode (wrong compressor DIP switch settings)
UF	Debug codes	Exchange module indoor unit identification error
UJ	Debug codes	PV module F0 protection
UP	Debug codes	Thermal storage tank module shut-down error protection
UU	Debug codes	Electronic expansion valve leak error of thermal storage module
Ub	Debug codes	Protection without shutdown error of thermal storage module
Ud	Debug codes	Grid-connection driver board error
Un	Debug codes	Communication error between grid-connection driver board and master controller
Uy	Debug codes	PV module overheating protection
C0	Debug codes	Communication error (general)
C1	Debug codes	Communication error of expansion board
C2	Debug codes	Communication error (between master and compressor control card)
C3	Debug codes	Communication error (between master and fan control card)
C4	Debug codes	Error of Lack of Indoor Unit
C5	Debug codes	Alarm of Indoor Unit Project Number Collision

Code	Type signal	Description
C6	Debug codes	Addressing setting error on outdoor unit
C7	Debug codes	Communication error on exchange module
CH	Debug codes	Power yield error (excessive power)
CC	Debug codes	Master unit not assigned
CL	Debug codes	Power yield error (low power)
CE	Debug codes	Communication error between the exchange module and the indoor unit
CF	Debug codes	Master error (more than one master has been assigned)
CJ	Debug codes	General address assignment error
CP	Debug codes	Master error (more than one master has been assigned for wired panels)
CU	Debug codes	Communication error (between Indoor unit and remote receiver)
Cb	Debug codes	IP address assignment error
Cd	Debug codes	Communication error between the exchange module and the outdoor unit
Cn	Debug codes	Internal and external network error of the exchange module
Cy	Debug codes	Communication error of the exchange module

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