

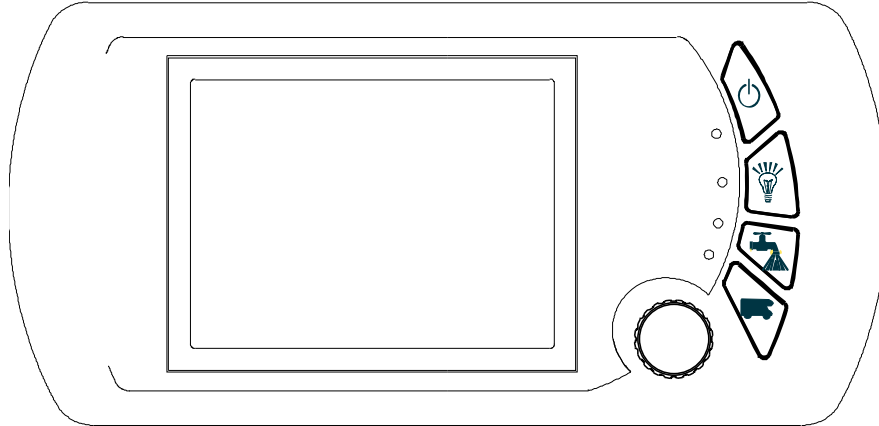
**Instruction booklet for central control unit for  
motorcaravan with graphic LCD**



**ArSilicii** s.r.l.  
Firmware v. 3.03

## Introduction

This manual has been written using simple and concise language so that it can be read quickly by anyone. All it takes is a few minutes to read the indications printed in this manual, to learn how to fully exploit the potential of the control panel installed in the motorcaravan.



## The controls

It is possible to interact with the control unit using four traditional type buttons and a special selection wheel which can be turned and is also sensitive to pressure.

The vehicle status and the effects of the actions are shown on the LCD positioned in the middle of the panel.



The four buttons positioned to the right of the screen are used to quickly access the most common functions. Starting from the top, we have:

- The main on-off switch for the control unit and all the vehicle utilities.
- The on-off control for the lights.
- The on-off switch for the pump.
- An additional control which can be used on certain vehicles with special functions.

The selection wheel is used mainly for two functions:

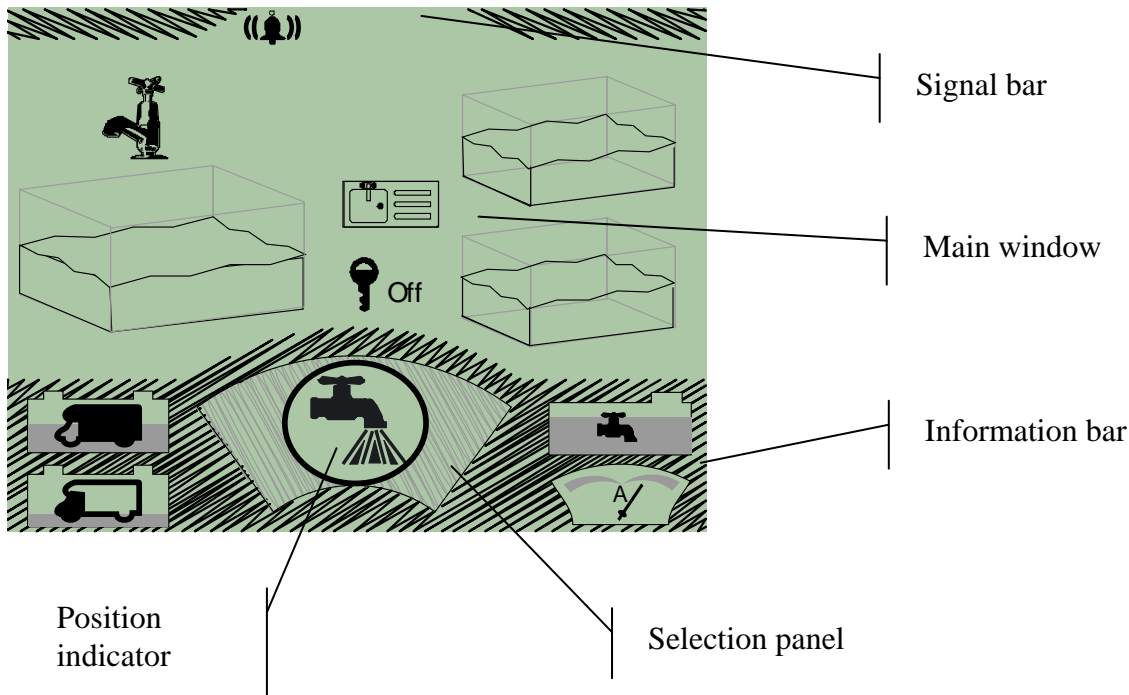


- Choosing the various windows.
- Selecting the various functions inside the window chosen.

The two functions are selected by pressing the wheel control when the cursor is in the idle position, as better explained below.

## The screen

The LCD graphic screen is split into five main areas.



### The Signal Bar

Reminds the user whether the alarm has been switched on or if a timed function has been activated, as well as indicating the presence of anomalies, such as short circuits on one of the light lines or on the pump control circuit.

### The Selection Panel

Enables selection of the information section to be displayed and access to the controls related to this section.

### The Main Window

Displays the information related to the subject selected using the selection panel and also enables the performance of commands associated with that specific subject.

### The Position Indicator

Displays the number of the window selected, the number of the menu item chosen and the total number of the menu items available for the current window, all in synthetic form.

### The Information Bar

Displays basic information related to the vehicle, especially the voltage of the engine battery and the services battery of the vehicle, the current delivered or absorbed (when recharging) by the services battery and the level of the water tank. This information is always visible regardless of the window selected.

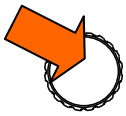
## Principles of use

The selection of commands to be issued and information to be displayed is carried out mainly using the selection wheel.

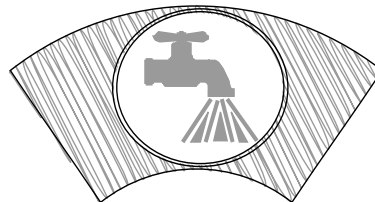
As mentioned earlier, pressing the selection wheel and keeping it pressed for a moment, switches from window selection to selection of the command to apply within the chosen window and vice versa. A typical sequence of use is illustrated below.



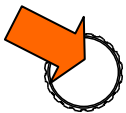
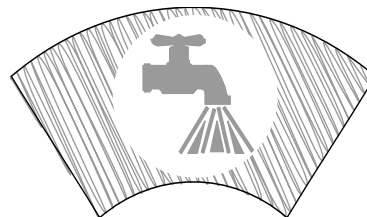
In the selection mode, turn the selection wheel to change the symbols inside the selection panel. This mode is distinguished by a dark circle around the window of the selection panel and the symbols are presented highlighted in a dark shade. (see figure below)



A prolonged press on the wheel selects the window related to the symbol present in the selection panel and switch to command selection mode. The symbol in the selection panel will become lighter, along with the circle around the window surrounding the symbol. (see figure below)



Turn the selection wheel slightly to scroll the various items in the window chosen, where present. You will see that the circle around the symbol in the selection panel disappears (see figure below), and an item from the window will become clearer. All the items in the window can be scrolled in this way.



Press the wheel to issue the command related to the item selected.



When you have finished exploring the items in the window, the circle will appear around the symbol in the selection panel.



Press the wheel when the circle is visible around the symbol in the selection panel to return to window selection mode.











During the operations described above the selection indicator varies its content. The first number shown in the example, “01”, indicates the number of the window, and changes every time a new window is selected. The second number after the arrow, “02” in the example, indicates the item selected. The last number, “04” in the example, indicates the total number of items that can be selected in that window.


01>02/04


The example above shows that the second item of the first menu, which has a total of four possible items, has been selected.

## The Windows


The table below offers a brief description of the various indications and commands associated with the individual windows. Alongside the symbols there are indices which appear in the hierarchy indicator for quicker consultation.

Symbol	Command	Description
0 		Tank level screen: the standard fresh water tank (and auxiliary one where applicable) and drain tanks.
1 		Activates and Deactivates the pump automatic protection device. When the water level falls below the minimum level, the pump switches off automatically.
1 		Battery Levels and Consumption window. Indication of the voltage of the two batteries, the charging current or the consumption of the services battery and count of the amperes per hour used by the services battery. (.--).
1 		Battery parallel activation and deactivation (only when the vehicle is connected to an outside source of 220/110V). <i>N.B. The batteries are always parallel when the vehicle engine is running.</i>
1 		Indicates the condition of the fuses on the PowerLink unit. Each rectangle represents a fuse that is working properly if it is black. It is empty if the fuse has blown and needs replacement.
2 		Inside and outside temperature indicator screen, and minimum and maximum level recording. <i>N.B. operational only if temperature sensors are present.</i>
1 		Zeroes the minimum and maximum indications.
3 		Window for setting the current time and alarm. The times are adjusted by selecting the hands of the clock and turning them to the required position. Then reconfirm the time using the Set Time item, and the alarm using Set Alarm.
1 		Sets and activates the changed time.
2 		Sets and activates the alarm time.

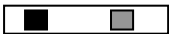
4  Window for checking the activation of the solar panels, the current generated and the power delivered. It only works if the solar panels are installed!

1  Activates and deactivates the operation of the solar panels. Above this symbol is the type of battery selected on the charge regulator switch. (Pb = Standard lead battery, Gel = Gel battery).

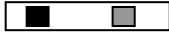
2 Selects charging the Service Battery or the Engine Battery. It only works if the Engine Battery is connected to the regulator.


5  Window to activate and control the operation of the timer node, where present.

1 **Timer 1 = On** Sets whether channel 1 must be on or off when the timer goes off.


2  Sets the start and end time of the timer 1.

3 **Timer 2 = On** Sets whether channel 2 must be on or off when the timer goes off.

4  Sets the start and end time of the timer 2.

6  Communication system diagnosis window for checking short circuits on the various distribution units.

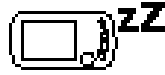
1 **Search for Nodes** Lists the nodes currently detected by the system, which must be at least:  
 - Power Link 2  
 - Power Link  
 - Ceiling Power Hub  
 - Water Level & Pump

2 / 5  Activates and deactivates an output of the ceiling or floor power hub. If it becomes a flash of lightening it indicates a short circuit.

7  Display Settings window.

1  Control unit sound level







2  Display contrast



Idle time after which the control unit displays the clock.

### **Special indications**

On the signal bar, at the top of the display, symbols will appear depending on the events that occur. The table below explains the meaning of these symbols.

<b>Symbol</b>	<b>Explanation</b>
	This indicates that the alarm function is active and disappears after the alarm goes off.
	This indicates that the communication via bus between the power supply and the control unit is disconnected.
	This indicates that the appliance is connected to a 220/110V socket.
	This indicates that there is a short circuit on the power supply to the pump. If this problem persists after switching the pump off and on using the appropriate button, contact the service centre.
	This indicates that there is a short circuit on a distributor output. Consult the “First Aid” window to find help and a more precise localisation.
	This indicates that the Timer function is active on one of the two channels and disappears after the time set on the timer is up.