

**Eikon Evo  
21511.1**

Touch screen a colori 4,3" Full Flat



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## Description - Main menù

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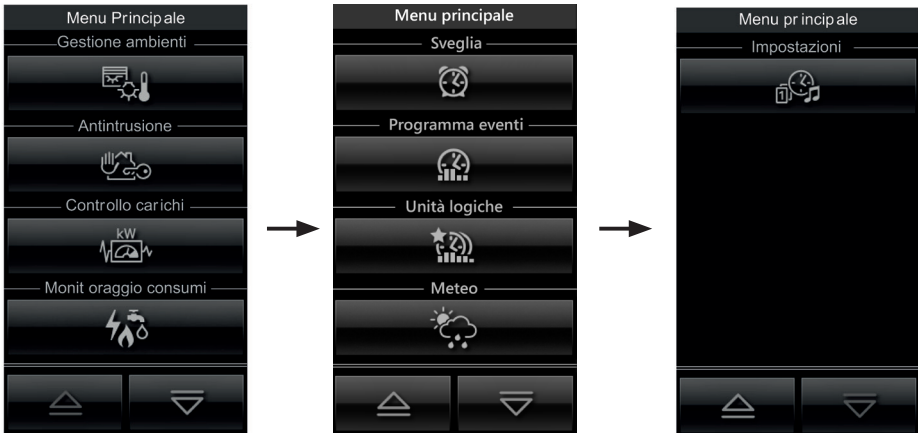
### 1. DESCRIPTION.

The touch screen include control of lights (on/off/adjustment), shutters, thermostats (traditional and for fan-coil) and scenes; control and monitoring of burglar alarm devices (specially through 'Partialisation' menu it is possible to display the state of partialisations; automatic monitoring and control of power consumption of appliances (overload prevention).

CAUTION: For the flush-mounted controls only (art. 01480, 01481, 01482, 01485, 01486 and 01487), the function of pressing the button briefly or holding it down dynamically change the behaviour of the timer actuator (from monostable timed to bistable or vice versa) configured in the same group.

### 2. MAIN MENU.

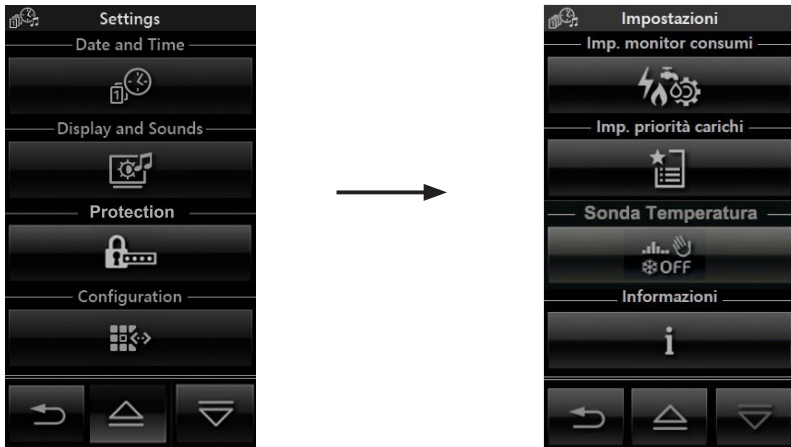
The opening screen is displayed containing the various sections for the control/command of the whole system.






Touching the icon  gives access to the Settings menu.



## Main menù

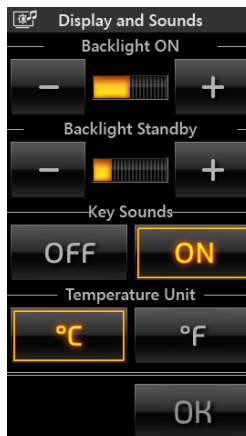


### • Date and Time

By touching the icon  it is possible to adjust the time and date displayed. With the icons  and  set the blinking value until the desired day, month, year and time are shown.

### • Display

When the icon  is touched the display shows the screen that allows you to adjust the backlighting and the contrast of the display.





## Main menù



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This is set by holding your finger on the icons until  and  the desired level is reached.

### • Keys Tone

With the icons  and  it is possible to enable or disable the acoustic signal(beep) which accompanies the touching of the icons displayed by the touch screen.

### • Temperature Unit



With the icons  and  it is possible to select the unit of measurement with which the touch screen will display the temperature in the various areas of the system.

To confirm the settings made, touch the icon .

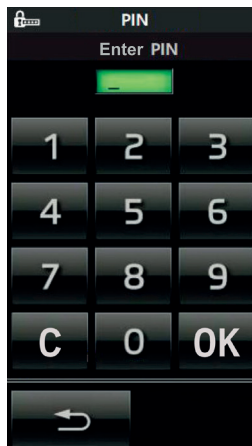
To return to the previous screen touch the icon .

### • Protection

With this option you set a password (**from 4 to 6 digits**) that inhibits displaying certain pages and therefore all the controls associated with them. This application is useful, for example, to distinguish the use of the video touch screen according to the current user.

Tap the  icon and then the  icon to display the page for setting the password (as shown on the following page) and select the page to inhibit.




Tap the  icon to edit a previously configured password.

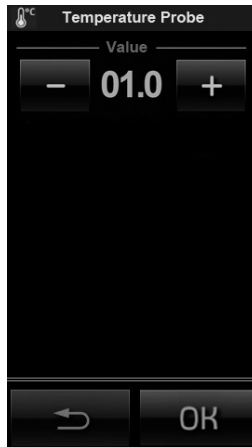


## Main menù


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- **Temperature probe**

By tapping the  icon you can, by using  and  , compensate for the value of the temperature measured by the external probe (where applicable).




- **Information**

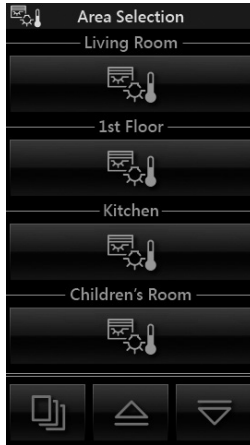
When the icon  is touched the display is shown which gives the software release and the main characteristics of the touch screen.




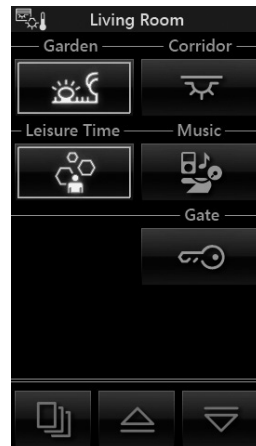
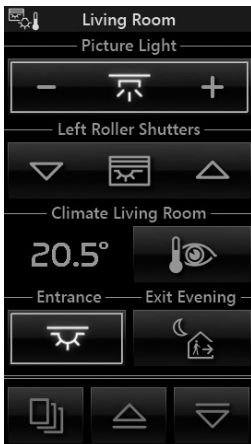
## Area management


### 3. AREA MANAGEMENT.

From the main menu, when the icon  is touched the display is shown which allows you to select the different areas of the system and to control the devices associated with them (lights, roller shutters, climate, etc.).





For example, when the icon  is touched that corresponds to the area called "Lounge", the touch screen displays the following screen:






- Touching the icon  switches on/off and adjusts the lighting called "Picture Light".

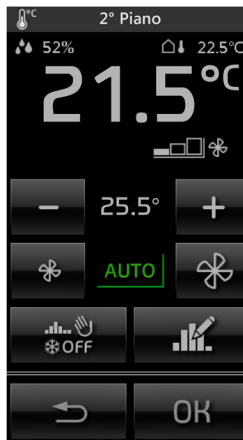
## Area management

- Touching the  icon lifts and lowers the roller shutter called “Lounge left roller shutters”.
- Touching the  icon gives access to the screen which allows you to adjust the temperature in the area called “Lounge”.

### 3.1 THERMOSTAT AND TEMPERATURE PROBE

In the touchscreen, at the graphical user interface level, the thermostat and the temperature probe behave in a similar way; it will then display:

- Current temperature.
- Temperature measured by the external sensor connected to the thermostat input (if fitted).
- Relative humidity, measured by the electronic humidity sensor (if fitted).
- Speed of fan coil  (if fitted).
- Current setpoint.
- Output status (on, off and, when present, with boost) .
- Alarm symbol of an external probe used as a screed alarm in an underfloor system .



With the touchscreen you can set:

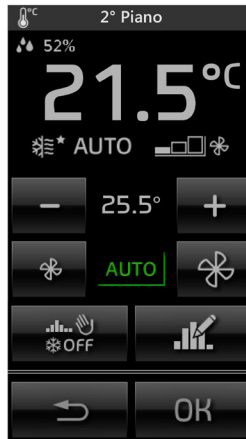
- Seasonal mode SUMMER – NEUTRAL ZONE – WINTER.
- Operating mode.
- Temperature setpoint.
- Fan coil speed (1-2-3 AUTO or setting on a proportional value, in steps of 10%, between 0 and 100% or AUTO)




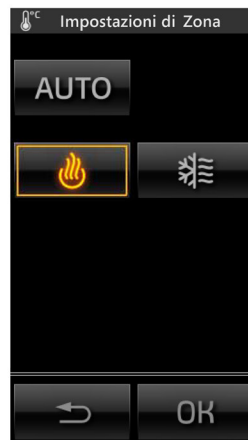
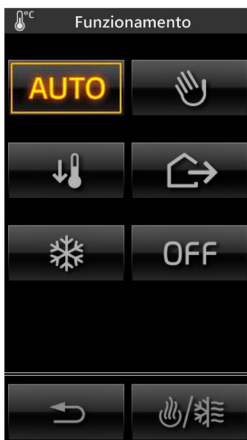
- Reading and modifying time program.

## Area management

### REFERENCE SCREENS



- Via  you can view the screen for setting AUTO, MANUAL, REDUCTION, AWAY and PROTECTION operation (Antifreeze or TooHot depending on the seasonal mode) of the heating/air conditioning system.



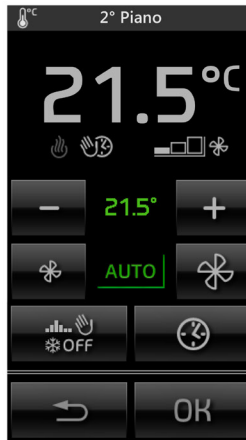
- With  you change the seasonal mode.

In this case it is possible to choose between "AUTO" or "AIR-CONDITIONING"; vice versa, when on "AUTO" or "NEUTRAL ZONE" you cannot change the operating mode.



Changing the temperature setpoint value from "AUTO" mode automatically switches it to "TIMED MANUAL" mode and the main screen becomes similar to the following:

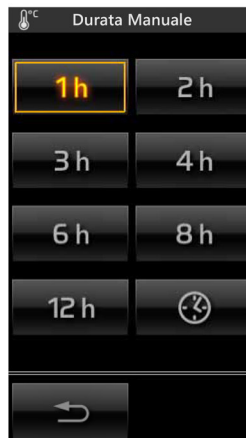
## Area management


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You cannot access “TIMED MANUAL” mode directly, but only from “AUTO” mode after changing the setpoint value.

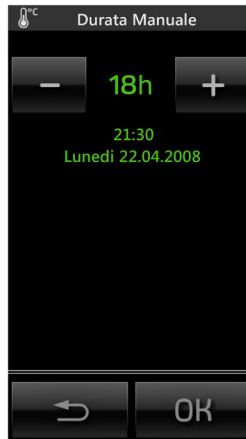
- Touching  or  (the latter is displayed on the screen for changing the operating mode) displays the screen and allows you to set the duration of the selected mode:





You can select a predefined time from the ones offered (from 1 to 12 h) or, by touching , you access the screen that allows you to set a custom value (in steps of 1 h).

## Area management

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On the main screen, tapping , takes you back to "AUTO" mode where the time and date when I will end the "TIMED MANUAL" mode that has just been set are shown.



If the main screen displays the  icon, it indicates that the screed alarm is active; this is related to exceeding a temperature limit beyond which damage can occur to a floor system whereby, in such conditions, the affected area is automatically switched "OFF".

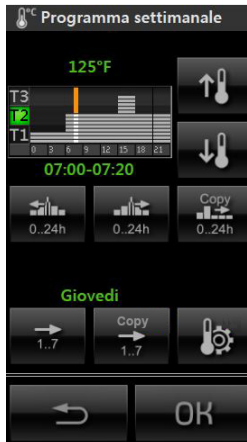












## Area management

With the touchscreen you can change the HVAC programs for automatic control of the heating and air-conditioning previously configured on the control panel.

The personalization consists, for each day of the week, of setting the value of the temperature levels T1, T2 and T3; in the heating and air-conditioning programs the values T1, T2 and T3 are differentiable.

Touching  activates the automatic program; then touching  brings up the screen for editing the program.



- Touching  and  selects the time slot for changing the temperature level.
- Touching  and  selects the desired temperature level; the histogram will be updated. The procedure must be repeated for all the time slots to be changed, then confirm with .
- To copy the setting of the level of a time slot to another one/others, touch the  icon.
- Select another day of the week by touching  and proceed as above; using  it is possible to assign the day displayed with the program of any other day of the week; by touching  select the day to copy from and confirm with .


## Area management




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- Touching  displays the screen used to change the value of the temperature levels T1, T2 and T3.



Touching the icon  activates the scenario called "Entrance"; the same applies to all the other icons associated with the different scenarios displayed.

- Touching the icons  and  scrolls through the whole screen for the groups and scenarios of the selected area.
- Touching the icon  gives access to the screens for all the other areas of the system.

## Area management

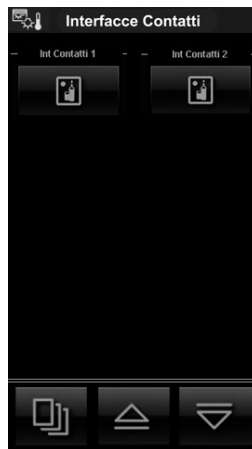
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**WARNING - Operation of the icons of activation of the scenarios:**

- **Short press: Activate the scenario.**
- **Long press (5 seconds): storage scenario (are stored and overwritten states of the groups involved in the scenario being created).**

**Viewing the status of contact and relay interfaces.**

If the rooms contain any contact interfaces used to control windows and/or doors and windows, the video touch screen will enable monitoring their status. For example, should a window have been left open, the icon for the contact interface associated with that window will light up.




### 3.2 MANAGING MONOCHROMATIC AND RGB LAMPS.

This lights management mode, **which can only be used if the By-me home automation system is equipped with dimmers, dedicated lamps and ballasts**, by switching on/off and controlling brightness, provides efficient lighting in the rooms while ensuring optimization of energy savings.

The new RGB functions (patented by Vimar) enable creating colour changes and elegant, sophisticated light effects. You can also call up scenarios involving different functions in the home automation system such as, for example, combinations of lights and colours matched to your favourite music to create a personalized, comfortable environment.

#### Managing monochromatic lamps

The monochromatic lamps are managed in the same way as for traditional lighting.


Tapping the  icon switches on/off and adjusts the illumination of the associated monochromatic lamps.

## Area management

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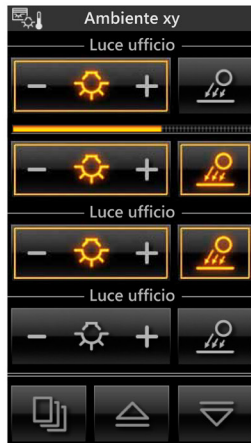
### Dimmer feature when it is combined with the "Brightness Sensor"

If the system is fitted with a brightness sensor combined with art. 01467, you can keep the brightness in a room automatically constant according to the value read by the sensor and a brightness setpoint that is set automatically with each adjustment on the dimmer.

The function of keeping the brightness constant can be switched on/off at any time by tapping ; in this case the controls become the same as for any other dimmered lighting point.

This function then allows obtaining energy savings as natural light is used, as long as possible, instead of artificial light for lighting the room.

On the touchscreen, the dimmer combined with the brightness sensor can be added to any room screen and the view is similar to the following:



## Area management

### Managing RGB lamps

The video touch screen enables managing switching on/off, adjusting/changing the hue, saturation, and brightness of the RGB lamps and it will also be possible to activate the Fading-Show application configured on the controller by your installer. Depending on the operating mode, the adjustment icon will be displayed as follows:

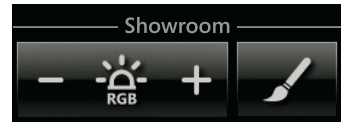
- **Lamp ON.**

In this case the degree of illumination is constant (no adjustment) and the colour is fixed.



- **Lamp OFF.**

As above but with the lamp off.



- **Lamp under adjustment.**

In this case the degree of illumination is adjustable (level displayed by the scroll bar) and the colour is fixed.

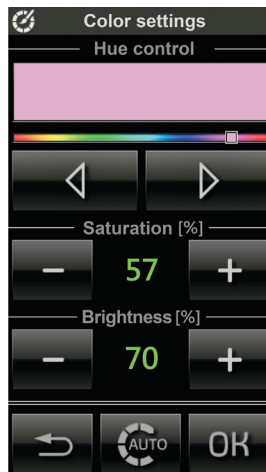


- **Lamp ON in Fading-Show mode.**

In this case the lamp is on and it provides the lighting sequence configured.





- Tapping the  icon opens the screen where you make the colour settings.

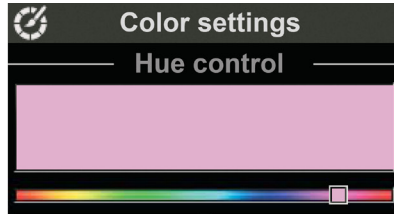








## Area management

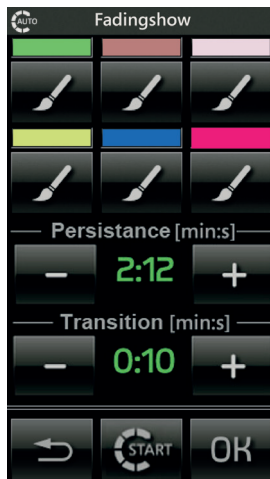
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- Using  and  you set the hue (fixed) of the lamp once it is turned on.

The hue displayed will match the position of the cursor in the desired colour









- With  and  on **Saturation** you set the percentage of "vividness" of the colour.
- With  and  on **Brightness** you set the percentage of "contrast" of the colour.
- Tapping  confirms the settings you have made.
- Tapping  icon opens the screen where you make the Fading-Show settings.

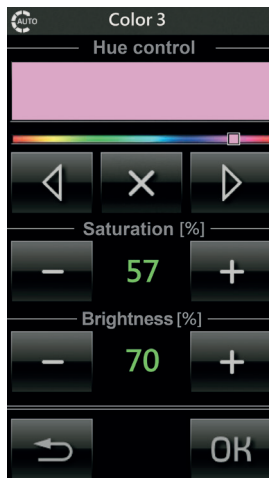








The function of Fading-Show allows to set a cyclical sequence of colors (up to a maximum of 6) for color changes and the play of light in the environments where the lamps are installed RGB.

## Area management

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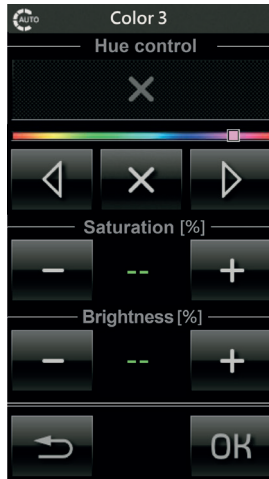
- With  and  on **Persistence** you set the time during which each of the colors remains fixed.
- With  and  on **Transition** you set the time that elapses between the passage of a gradual color to the next.
- Tapping  confirms the settings you have made.
- Tapping the  icon associated with each of the colors that make up the sequence is going to change the color characteristics of that color; in fact will see the following screen:





- With  and  you set the tone of color that will match the position of the cursor to the position desired color.
- With  and  you set **Saturation** and **Brightness**.
- Tapping  confirms the settings you have made.
- Tapping  you remove the color selected by the sequence of Fading-Show and the screen will become as follows:

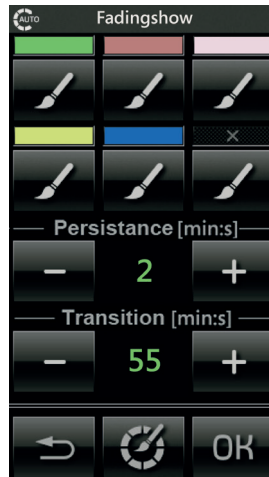
## Area management

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- Tapping  confirms the settings you have made.
- Tapping the  icon to activate the sequence Fading-Show just set.

When the sequence is active and you fall into the menu Fading-Show, the screen becomes the following.



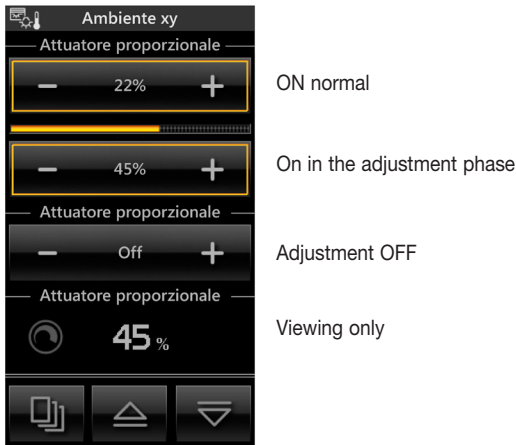
- Tapping the  icon will stop the sequence of Faing-Show set.



# Area management

## 3.3 OTHER TYPES OF ADJUSTMENTS

The touchscreen lets you make other types of proportional adjustments that are not necessarily related to the lighting; a viewing example can be as follows:



If the actuator is OFF, the display will show:



If there is a fault on the output that you are adjusting, the associated control will display a specific warning instead of the adjustment value:



## Area management

If the system includes the device with 3 analogue inputs 01467 which is connected to a dedicated sensor, the room control screens may display one or more instantaneous values of different variables measured by the sensor. The variables that can be viewed, which can be brightness, wind speed, barometric pressure, relative humidity, air quality, air flow, voltage, electric current, power, amount of rainfall and temperature, are shown as follows:




If the displayed variable is relative humidity and when envisaged by the system, you can set a setpoint on exceeding which a special alarm will be displayed, and activated when needed.

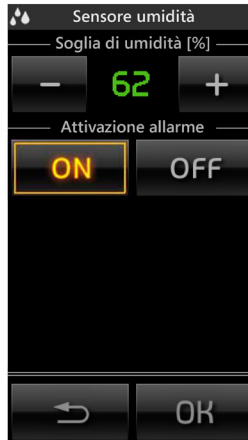


## Area management

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On the previous screen, notice that the ON/OFF output status indicator linked to it may be absent if the humidity control is disabled on the setpoint adjustment screen.

Tapping  displays the screen for setpoint adjustment (minimum value 20% - maximum value 80%) and for switching the output control on/off:



## Area management


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### 3.4 CLIMATE CONTROLLER

If there is one or more climate controllers in the system and the installer has configured their command/control in the touch screen, the device will display the following operating options:

- Fixed mode (with the possible setpoint control).
- Modulating mode.



If there is a malfunction of the system, or damage to the probes connected to the climate controller, the touch screen will display the icon .


**Note:** The presence or absence of external and auxiliary probes depends on their actual installation according to the needs and type of temperature control system.

## Weather station

### 4. WEATHER STATION.

If the weather station is installed in the system, the touchscreen will display the measured data in a specific screen. Two examples of screens showing the data measured by the weather station are given below.



The arrows  next to the temperature and wind speed take you to a page showing the extreme values recorded. Resetting these values can be done manually (with the specific button) or automatically at midnight every day. The choice between the two reset modes is made during installation.

Reference screens displaying the extreme temperature values




**IMPORTANT:** The weather symbols displayed by the touchscreen correspond to the current state of the weather and are not a forecast.

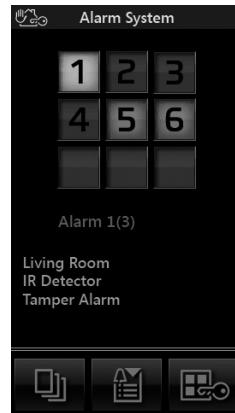
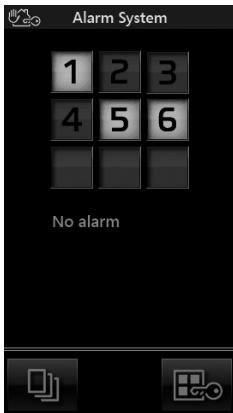
## Intrusion detection alarm system

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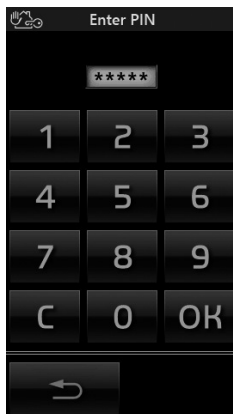
### 5. INTRUSION DETECTION ALARM SYSTEM.

#### 5.1 By-me burglar alarm

From the main menu, touching the icon  displays the screen which allows you to view the status of the burglar alarm system and to switch the system on/off. For example, the partialized active system screen (the green colour represents active partialization) is of the type and while the alarm system screen (the red colour represents the zones in alarm) will be of the type:






The touch screen allows the burglar alarm system to be switched on/off with modes similar to those of the digital keypad and therefore by typing in PIN codes; the screen is as follows:

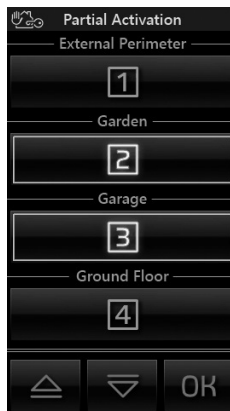


## Intrusion detection alarm system

Once the PIN code has been typed in, the touch screen will display the following screen:



- Touching the  activates/deactivates all the functions associated with the PIN entered.
- Touching the  gives access to screens allowing individual functions to be activated/deactivated.
- Touching the icon  deactivates the acoustic signal of the current alarm.




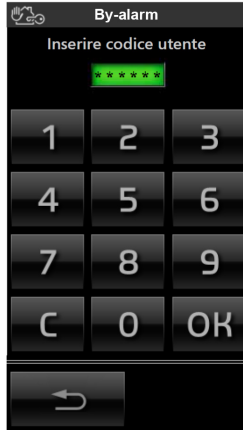
To include an area in partialization, it is sufficient to touch the corresponding icon and the edge of the latter will become yellow in colour.

To confirm the settings made, touch the icon .

# Intrusion detection alarm system

## 5.2 By-alarm system

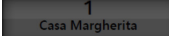
From the main menu, tapping the  icon displays the screen for entering the user code; this operation is required to interact with all of the intrusion detection alarm system functions.




Entering a valid user code displays the screen for the system status.



The above screen shows the areas of the system linked to the entered user code and they can then be controlled and monitored.

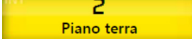


- The areas shown in grey are not armed: 

- The areas shown in green are armed in ON mode: 



## Intrusion detection alarm system

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- The areas shown in yellow are armed in INT mode: 
- The areas shown in orange are armed in PAR mode: 
- If the system is armed the areas shown in red are in alarm status; if the system is disarmed it is in alarm memory status: 

When an area is armed in any of the operational modes, the only possible action is disarming; tapping the area's push button displays the **OFF** icon below it.





When instead the area is not armed (ie greyed out), tapping the area's push button displays the icons for arming in the desired mode (ON, INT and PAR).



Both the **OFF** icon for disarming and the **ON**, **INT** and **PAR** icons for arming can be used or not, depending on the privileges linked to the user code that is entered at login.



If the user is not linked to the privilege to perform a given operation, the icons are displayed all the same without however being able to be selected.


Tapping  disarms all the areas that can be managed by the entered user code; similarly, by tapping  you can put all the areas that can be managed by the entered user code in ON, INT or PAR mode.

If the system is armed when there are still open zones related to a previous alarm warning, the device will display the name of the zones and their area.




## Intrusion detection alarm system



By tapping  the system will be armed even if the zone is open (for example if that zone is timed), whereas tapping  takes you back to the previous menu without arming the system.

Tapping  displays the event list of the intrusion detection alarm system.




The screen for the event list allows displaying the last 32 events saved by the video touchscreen (use the  and  icons to scroll through the list and the  icon to clear the list) consulting the characteristics of each event (type, date and time, zone/area details) in the **Dettagli evento** column.

**IMPORTANT: The Event list on the video touchscreen is displayed for reference and is not retained in the event of a power failure to the video touchscreen.**

The complete Event list of the intrusion detection alarm system can be displayed via the keypad 01705 (for details see its user manual).

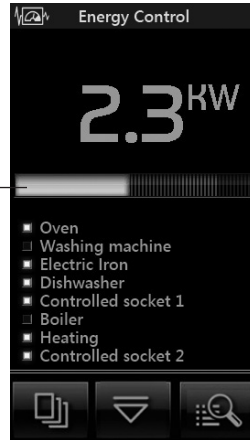
# Load control

## 6. LOAD CONTROL.

From the main MENU, tapping the  icon takes you to the screen where you can view the status of the controlled loads and the power consumption.

Indicator of consumption with respect to the thresholds. If you have the full-scale production changes dynamically, taking into account the energy produced.

**Dynamic Mode:** Pressing the area that displays the instantaneous power for 2 min after the reading of the will value every 2 s thus increasing the frequency of update of the data represented. At the end of 2 min, the reading will repeat every 30 seconds until an eventual new pressure.



- Tapping  displays the screen with which you can force the loads.



- Tapping the  icon corresponding to the desired load, forces that load.

The above icon is only displayed if the load can be forced. During configuration your installer will set which loads can be forced and which cannot (see an example of the screen below).





## Load control

---

### ■ Setting load priorities

This function lets you change the order in which the individual loads, previously set via the control unit during configuration in the load control module, are cut off when necessary.




- Tap  and  to select the load whose priority you want to change and with  and  you assign the new priority.

To confirm the settings made, tap .

# Energy monitoring

## 7. ENERGY MONITORING.





From the main menu, tap the  icon and you access the menu that, depending on the structure of the system, displays the following options:

- Global consumption (always present)
- Energy production (optional)
- Energy flows (optional)
- Pulse counter (optional) from 1 to 8 (for example cold water, gas, etc.)
- Single load (optional) from 1 to 8 (for example fridge, boiler, etc.)

### 7.1 GUIDE TO NAVIGATING THE SCREENS

The purpose of this section is to provide the user with a complete, intuitive graphical guide, which illustrates navigation among the screens of the touch screen dedicated to energy management.

The legend is as follows:

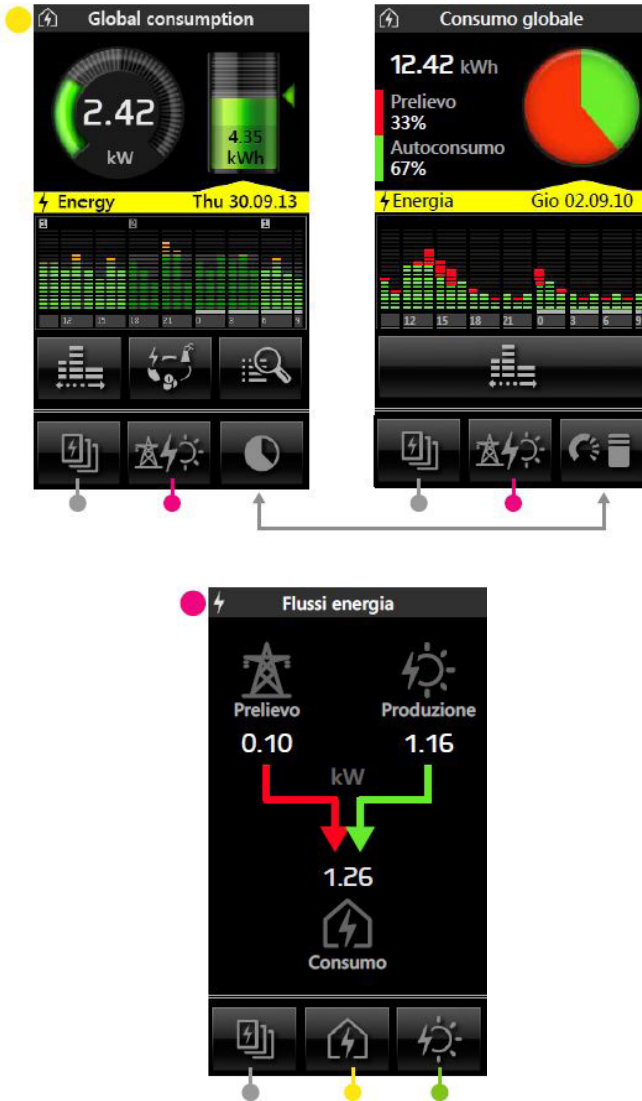
-  : Main menu for Consumption Monitoring
-  : Details of Global consumption
-  : Details of the Production
-  : Screen for the Energy flows

- On the screen for Global consumption   : Estimated tap-off/self-consumption

- On the screen for Energy production   : Estimated feed-in/self-consumption




## Energy monitoring



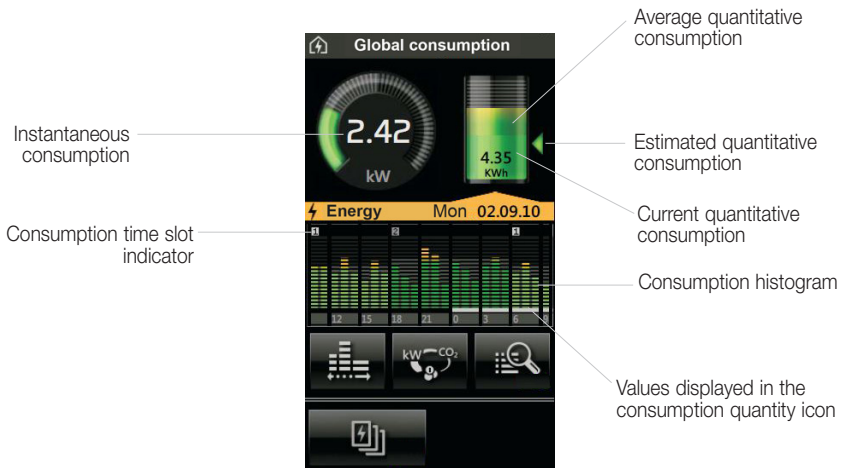
# Energy monitoring

## 7.2 GLOBAL CONSUMPTION

Tapping  brings up the screen for viewing and managing the energy consumption of the house (Energy Guard) with:



- an indication of the instantaneous power in kW or CO<sub>2</sub> or cost in euro;
- an indication of the accumulated energy in kWh or CO<sub>2</sub> or cost in euro;
- a bar chart of the accumulated energy in kWh subdivided by day/week/month/year

Green indicates a value below the average, orange a value above the average and the grey background indicates the average.




**Dynamic Mode:** Pressing the area that displays the instantaneous power for 2 min after the reading of the will value every 2 s thus increasing the frequency of update of the data represented. At the end of 2 min, the reading will repeat every 30 seconds until an eventual new pressure.


**IMPORTANT:** The displayed value (in euro) is approximate: it is the equivalent in € of the energy consumed and is not directly comparable to the total amount of the bill, which takes account of fixed costs, any increases in energy prices during the two-month period and adjustments.

- Toccando l'icona  si visualizzano in modo sequenziale e circolare i dati relativi ai consumi energetici (in kWh), alle emissioni di gas serra (se questa funzione è stata abilitata dall'installatore) ed ai costi.
- Toccando l'icona  si visualizza un'ulteriore schermata che, per mezzo di un grafico circolare ed una serie di istogrammi, indica le percentuali di energia prelevata ed energia autoconsumata sul totale rappresentato dall'Energia consumata.

## Energy monitoring



- Tapping the  icon again displays the screen for Global consumption given at the beginning of the page.

- By tapping the  icon you can set the time scale (hours, days, weeks, months) for measuring the consumption. The quantitative consumption displayed is:

- **daily** if the time scale set for the consumption histogram is in hours;
- **weekly** if the time scale set for the consumption histogram is in days;
- **monthly** if the time scale set for the consumption histogram is in weeks;
- **yearly** if the time scale set for the consumption histogram is in months.

The parts of the histogram highlighted at the bottom by a white line represent the values displayed in the quantitative consumption icon.

### ■ CONSUMPTION HISTOGRAM

The graphic representation of the consumption histogram varies depending on the type of contract made.

#### Time slot contract

- Average consumption: displayed in grey
- Actual consumption: displayed in green.

To represent the three possible time slots, different shades of green are used going from pale green for slot 1 to dark green for slot 3.

If the average consumption is exceeded, the histogram bar will turn yellow.

- If the set time scale is in hours, at the top left of the histogram a number is displayed that indicates the time slot.

#### Threshold contract

- Average consumption: displayed in grey.  
This value represents the threshold of the expected consumption.
- Actual consumption: displayed in green (single shade).  
The bar of the histogram turns yellow if the threshold is exceeded.



# Energy monitoring

- Exceeding the monthly **threshold** is signalled by a small red icon that appears above the bars of the histogram (the icon is displayed from the moment when the threshold is exceeded until the end of the month).

## ■ QUANTITATIVE CONSUMPTION ICON

in this case, too, the graphic appearance of the icon varies according to the type of contract made.

### Time slot contract

- Average consumption: displayed in grey

- Estimated consumption: green  icon.

- Actual consumption: displayed in green.

To represent the three possible time slots, different shades of green are used going from pale green for slot 1 to dark green for slot 3.

If the average consumption is exceeded, the icon will turn yellow.

### Threshold contract

- Average consumption: displayed in grey.

This value represents the threshold of the expected consumption.

- Actual consumption: displayed in green (single shade).









The icon turns yellow if the threshold is exceeded.










- Exceeding the monthly **threshold** is signalled by a small red icon that appears above the icon Quantitative consumption (this happens only if the monthly consumption is displayed).








- Tapping the  icon displays the detailed consumption screens according to the set unit of measurement and time scale.

It is possible to manage electric power supply contracts with 1, 2 or 3 time slots or threshold contracts, for which there is a monthly maximum of energy consumption (beyond which the cost of the energy increases).


Finally, for three phase systems only, at the end of the third screen the percentage distribution of the energy accumulated by each phase is displayed.

⚡ Detail consumption			
Average consumption	[KWh]		
Time	0.22 0.52	93%	7%
Total	1.49		
Estimated consumption	[KWh]		
Mon 02.09.10	24.22 14.90	88%	12%
Total	24.4		
Consumption recorded	[KWh]		
02.09. 08-09h		0.32	
02.09. 07-08h		0.28	
02.09. 06-07h		0.33	
02.09. 05-06h		0.32	
02.09. 04-05h		0.34	
02.09. 03-04h		0.32	


⚡ Detail consumption			
Consumption recorded	[KWh]		
02.09. 02-03h		0.34	
02.09. 01-02h		0.32	
02.09. 00-01h		0.28	
01.09. 23-24h		0.32	
01.09. 22-23h		0.32	
01.09. 21-22h		0.28	
01.09. 20-21h		0.33	
01.09. 19-20h		0.32	
01.09. 18-19h		0.34	
01.09. 17-18h		0.32	
01.09. 16-17h		0.34	
01.09. 15-16h		0.32	
01.09. 14-15h		0.28	
01.09. 13-14h		0.32	

⚡ Detail consumption			
Consumption recorded	[KWh]		
01.09. 12-03h		0.34	
01.09. 11-12h		0.32	
01.09. 10-11h		0.28	
01.09. 09-10h		0.32	
Distribution on the 3 phases			
Phase			
	33%	23%	44%

## Energy monitoring

- The  icon is used to clear the data displayed on the screen.

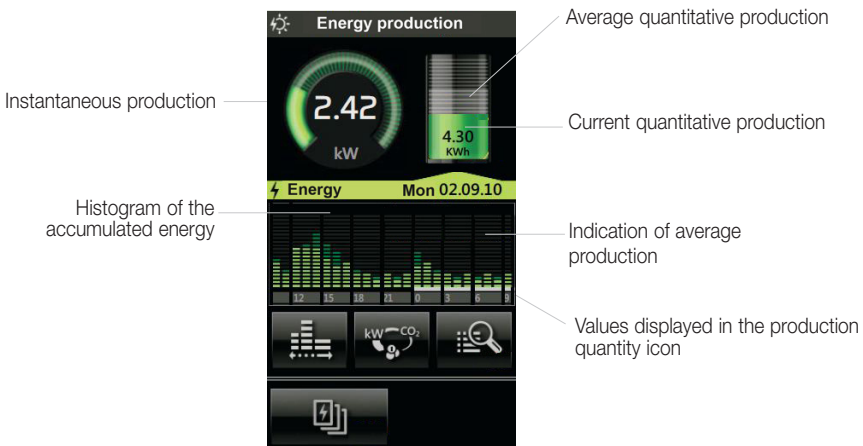
### 7.3 ENERGY PRODUCTION

When present, tapping  brings up the screen for viewing and managing the energy production of the house with:



- an indication of the instantaneous power generated in kW or CO<sub>2</sub> or cost in euro;
- an indication of the accumulated energy generated in kW/h or CO<sub>2</sub> or cost in euro;
- a bar chart of the accumulated energy generated in kW/h or CO<sub>2</sub> or cost in euro subdivided by day/week/month/year.

Dark green indicates the energy produced and light green indicates the auto-consumption.

**N.B.** Obviously, the value represented by light green will never be greater than that represented by dark green (at most they can be equivalent).





**Dynamic Mode:** Pressing the area that displays the instantaneous power for 2 min after the reading of the will value every 2 s thus increasing the frequency of update of the data represented. At the end of 2 min, the reading will repeat every 30 seconds until an eventual new pressure.


- Tapping the  icon displays, sequentially and in a loop, the data for energy consumption (in kWh), emissions of greenhouse gases (if this feature has been enabled by the installer) and costs.
- Tapping the  icon displays another screen that, by means of a pie chart and a series of histograms, indicates the percentage of fed-in energy and self-consumed energy of the total represented by the energy produced.

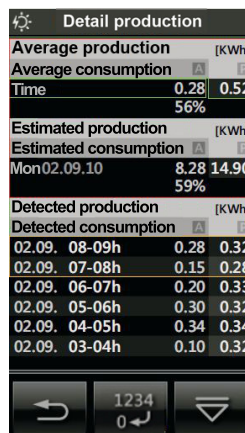
## Energy monitoring



- Tapping the  icon again displays the screen for Energy production given at the beginning of the page.
- By tapping the  icon you can change the reference time interval (daily, weekly, monthly and yearly) for the bar chart of the production log.

The quantitative production displayed is:


- **daily** if the time scale set for the histogram is in hours;
  - **weekly** if the time scale set for the histogram is in days;
  - **monthly** if the time scale set for the histogram is in weeks;
  - **yearly** if the time scale set for the histogram is in months.
- Tapping the  icon displays the detailed production screens according to the set unit of measurement and time scale.



Detail production			
Average production	[KWh]		
Average consumption	[A]	[V]	
Time	0.28	0.52	
	56%		
Estimated production	[KWh]		
Estimated consumption	[A]	[V]	
Mon02.09.10	8.28	14.90	
	59%		
Detected production	[KWh]		
Detected consumption	[A]	[V]	
02.09. 08-09h	0.28	0.32	
02.09. 07-08h	0.15	0.28	
02.09. 06-07h	0.20	0.33	
02.09. 05-06h	0.30	0.32	
02.09. 04-05h	0.34	0.34	
02.09. 03-04h	0.10	0.32	

## Energy monitoring





The screens detailing the production of energy show:

- the average production, average hourly (or daily/weekly/monthly) auto-consumption in kW/h and the percentage ratio of the former to the latter;
- the daily (or weekly/monthly/yearly) estimated production and auto-consumption in kW/h and the percentage ratio of the former to the latter;
- the hourly (or daily/weekly/monthly) production and auto-consumption in kW/h,
- The  icon is used to clear the data displayed on the screen.

### 7.4 ENERGY FLOWS

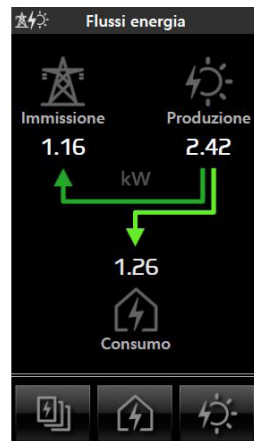
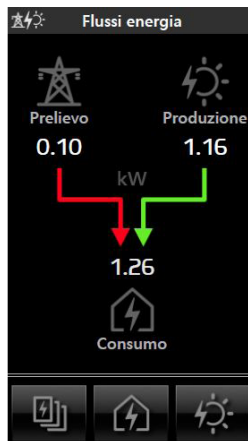
The energy flow screens quickly and intuitively show the energy exchanges in progress and let you at any time see the state of your consumption, production and any tapping off from or feeding in to the power grid.

The direction of the arrows indicates the direction of the energy while their colour indicates respectively:

-  : Energy fed in
-  : Energy self-consumed
-  : Energy tapped off
-  : No energy exchange

If both are present, "tap-off" and "feed-in" are displayed alternately according to the direction of energy.

The following are some of the screens that appear most frequently:



## Energy monitoring

Conversely, the following screens illustrate situations that are shown less frequently:



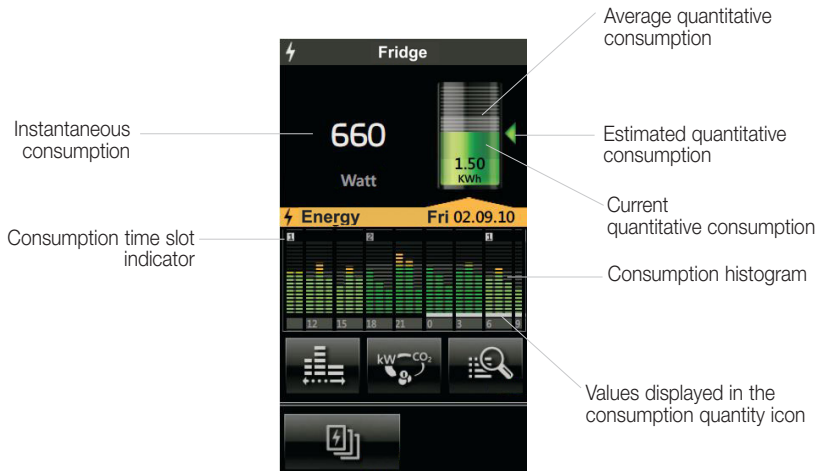
### 7.5 SINGLE LOAD CONSUMPTION

From the consumption monitoring menu (chapter 7), tapping the icon of the desired load (e.g. **Fridge**) brings up the screen (quite similar to that for global consumption) for viewing and managing power consumption with:


- an indication of the instantaneous power in W or CO<sub>2</sub> or cost in euro;
- an indication of the accumulated energy in kW/h or CO<sub>2</sub> or cost in euro;
- a bar chart of the accumulated energy in kW/h subdivided by day/week/month/year.


Green indicates a value below the average, the intermediate green/orange indicates the last mark before reaching the average value, orange a value above the average and the grey background indicates the average.

## Energy monitoring



**Dynamic Mode:** Pressing the area that displays the instantaneous power for 2 min after the reading of the will value every 2 s thus increasing the frequency of update of the data represented. At the end of 2 min, the reading will repeat every 30 seconds until an eventual new pressure.

- By tapping the  icon you can select the unit of measurement with which the touch screen will display the load power consumption. The graph of the consumption will however always be shown in kW.

- By tapping the  icon you can set the time scale (hours, days, weeks, months) for measuring the consumption. The quantitative consumption displayed is:


- **daily** if the time scale set for the consumption histogram is in hours;
- **weekly** if the time scale set for the consumption histogram is in days;
- **monthly** if the time scale set for the consumption histogram is in weeks;
- **yearly** if the time scale set for the consumption histogram is in months.

The parts of the histogram highlighted at the bottom by a white line represent the values displayed in the quantitative consumption icon.

- Tapping the  icon displays the detailed consumption screens according to the set unit of measurement and time scale.

The pages detailing single load consumption show:

- the average hourly consumption per time slot (in kW and percentage) with the relevant total;
- the estimated total daily consumption subdivided by time slot (in kW and percentage) with the relevant total;
- the hourly consumption (daily/weekly/monthly) measured in kW with an indication of the time slot.

- The  icon is used to clear the data displayed on the screen.

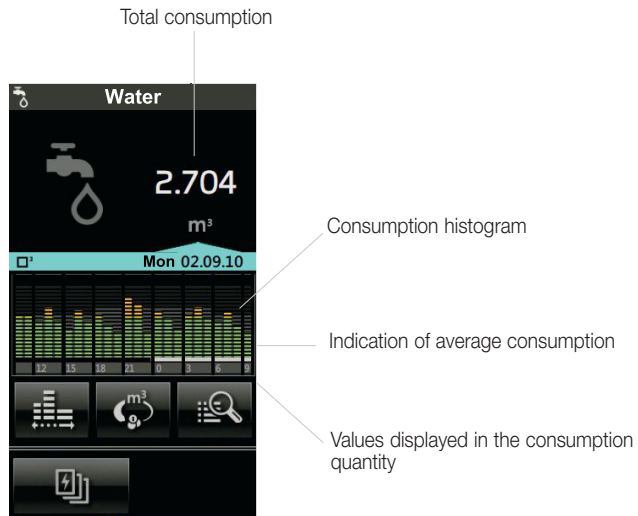
## Energy monitoring



### 7.6 PULSE COUNTER

From the consumption monitoring menu (chapter 7), tapping the **Pulse Counter** icon takes you to the screen for viewing and managing the consumption of utilities such as Water, Gas, etc. with:

- an indication of the overall consumption;
- a bar chart of the consumption or cost in euro subdivided by day/week/month/year;


Green indicates a value below the average, the intermediate green/orange indicates the last mark before reaching the average value, orange a value above the average and the grey background indicates the average.



- By tapping the  icon you can set the type of measurement with which the touch screen shows the data (consumption in m<sup>3</sup>, cost in euro);
- By tapping the  icon you can set the time scale (hours, days, weeks, months) for measuring the consumption.

The quantitative consumption displayed is:

- **daily** if the time scale set for the histogram is in hours;
- **weekly** if the time scale set for the histogram is in days;
- **monthly** if the time scale set for the histogram is in weeks;
- **yearly** if the time scale set for the histogram is in months.

- Tapping the  icon displays the detailed consumption screens according to the set unit of measurement and time scale.

## Energy monitoring



Detail consumption	
<b>Average consumption</b> [m <sup>3</sup> ]	
Time	0.512
<b>Estimated consumption</b> [m <sup>3</sup> ]	
Mon 02.09.10	4.920
<b>Consumption recorded</b> [m <sup>3</sup> ]	
02.09. 00-01h	0.312
02.09. 01-02h	0.248
02.09. 02-03h	0.133
02.09. 03-04h	0.032
02.09. 04-05h	0.034
02.09. 05-06h	0.032
02.09. 06-07h	0.133
02.09. 07-08h	0.032
02.09. 08-09h	0.034





The detail pages show:

- the average hourly (or daily/weekly/monthly) consumption;
- the estimated daily (or weekly/monthly/yearly) consumption in m<sup>3</sup>;
- the hourly (or daily/weekly/monthly) consumption in m<sup>3</sup>.

- The  icon is used to clear the data displayed on the screen.

### 7.7 SETTINGS


From the main menu, by tapping the  icon you access the Settings menu; then by tapping the  icon you access the menu for selecting the parameters related to the type of consumption/production.

Set consumption monitor	
Set consumption energy	
Set production energy	
Set pulse counter	
	







## Energy monitoring

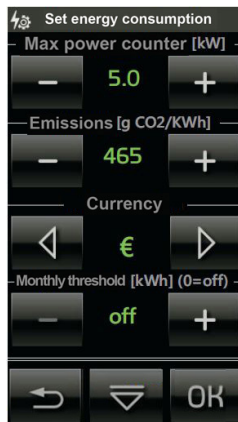
### 7.7.1 POWER CONSUMPTION SETTINGS

• By tapping the  icon you access the screens for selecting the parameters related to the type of contract used (the number and type of settings varies depending on the type of contract).

#### ■ CONTRACT WITH ONE TIME SLOT

In the case of a contract with only one time slot, there are two setting screens, the parameters that can be entered with the , ,  and  icons are:

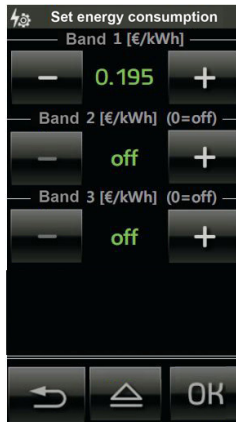
- Maximum meter power (kW)
- Emissions of carbon dioxide (g CO<sub>2</sub>/kWh)
- The currency for the calculation of the cost
- Monthly threshold (set in OFF)
- Amount/kWh Time Slot 1 (to be set)
- Amount/kWh Time Slot 2 (to be set in OFF)
- Amount/kWh Time Slot 3 (to be set in OFF)



• Tap the  icon and, using  and , set the currency and cost of the electric energy in Time Slot 1.

## Energy monitoring

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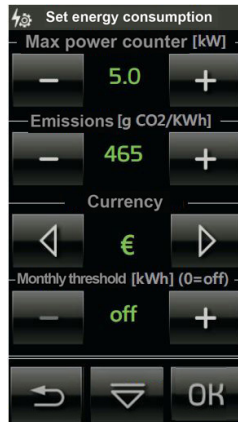
- Tapping **OK** confirms the setting and takes you back to the home screen of the power consumption menu.

### ■ CONTRACT WITH TWO TIME SLOTS




In the case of a contract with two time slots, the screens are similar to those of the contract with 1 time slot. They are then followed by those for assigning the time slots to the days of the week. The parameters that can be entered with the **<**, **>**, **-** and **+** icons are:

- Maximum meter power (kW)
- Emissions of carbon dioxide (g CO<sub>2</sub>/kWh)
- The currency for the calculation of the cost
- Monthly threshold (set in OFF)
- Amount/kWh Time Slot 1 (to be set)
- Amount/kWh Time Slot 2 (to be set)
- Amount/kWh Time Slot 3 (to be set in OFF)

## Energy monitoring



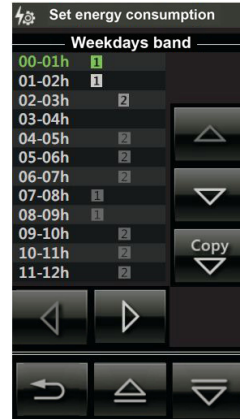
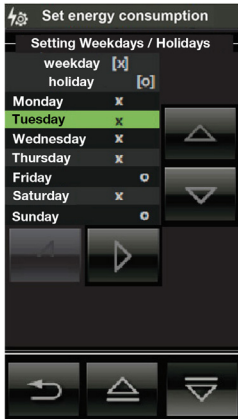
The screen for setting the monthly threshold must be disabled.

- Tap the  icon and, using  and , set the currency and cost of the electric energy in Time Slot 1 and in Time Slot 2.



- Tap the  icon to set the weekdays/holidays according to the time slots.

## Energy monitoring



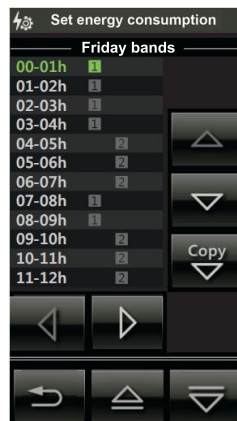
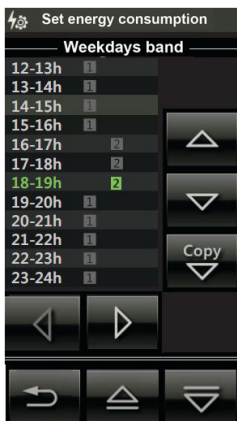
Tapping the ▲ and ▼ icons scrolls through the days while with ◀ and ▶ you set the selected day as a weekday or holiday.

At this stage, using the ▼ icon, set the time slots associated with the weekdays (treated all together) and with the holidays (treated independently of the others).

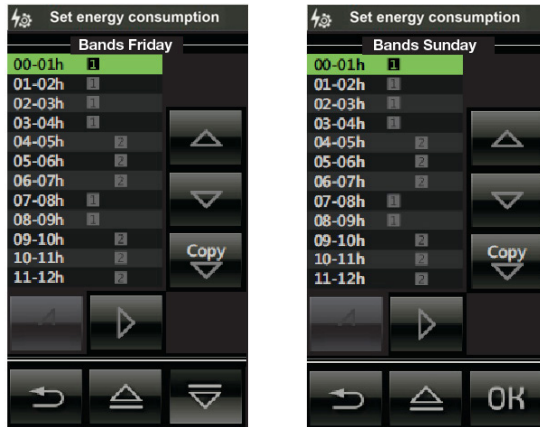
When setting the weekdays and holidays associated with the relevant time slots it is also possible with the Copy icon to copy/paste the time slots as illustrated in the following example.





### Example.

The following screens illustrate the association of the time slots related to the days of Friday and Sunday.



## Energy monitoring







Tapping the  and  icons scrolls through the hours while with  and  you set the relevant time slot.

With the  icon you can copy the current time slot (highlighted with green) to the following hour.

### ■ CONTRACT WITH THREE TIME SLOTS

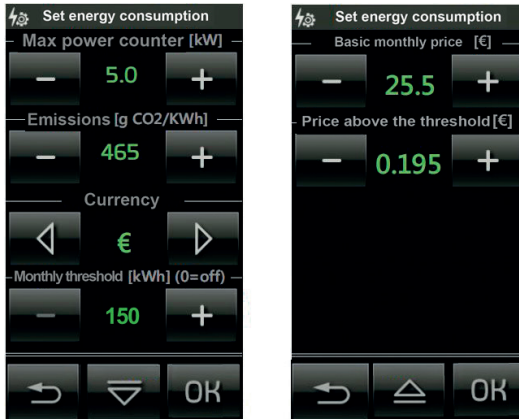
The operations to carry out are absolutely identical to those illustrated for the contract with two time slots; in this case, obviously, it will be necessary to set also the cost of the electric energy for Time Slot 3.




### ■ THRESHOLD CONTRACT

In the case of a threshold contract, there are two setting screens, the parameters that can be entered with the , ,  and  icons are:


- Maximum meter power (kW)
- Emissions of carbon dioxide (g CO<sub>2</sub>/kWh)
- The currency for the calculation of the cost
- Monthly threshold (set kWh)
- Basic monthly price (€)
- Price above the threshold (€/kWh)

## Energy monitoring



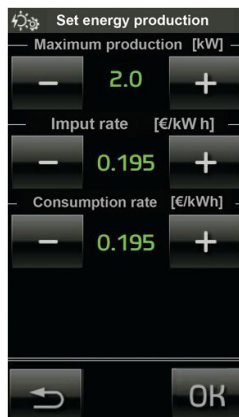
- Tap the  icon and, using  and , set the basic price and the price above the threshold.

### 7.7.2 POWER GENERATION SETTINGS

- By tapping the  icon you access the screens for selecting the parameters related to the power generated by the system and delivered over the network.

The parameters that can be entered with the  and  icons are:



- Maximum production in kW
- Tariff for the energy introduced in €/kWh
- Tariff for the auto-consumed energy in €/kWh



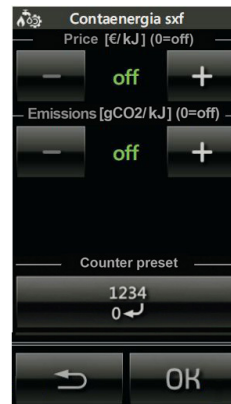
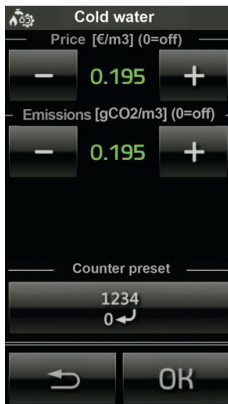
## Energy monitoring


### 7.7.3 PULSE COUNTER SETTINGS

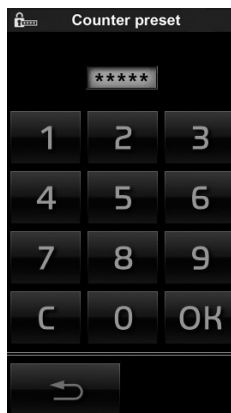
• By tapping the  icon you access the screens for selecting the parameters related to the consumption of utilities such as, for example, Water, Gas, etc.

The parameters you can enter with the  and  icons, which depend on the service controlled each time, may be the following:

- Tariff for the consumption of water or gas in €/m<sup>3</sup>
- Emissions of gCO<sub>2</sub> linked to the consumption of water or gas in €/m<sup>3</sup>
- Tariff for the consumption of gas in €/KJ
- Tariff for the consumption of gas in gCO<sub>2</sub>/KJ



• By tapping  you can set the meter to a desired value.




• Tapping  confirms the setting and takes you back to the home screen of the power consumption menu.

## Logic unit

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### 8. LOGIC UNIT

The  icon is displayed in the main menu when the system contains one or more logic units in which there are programs whose timing you can change.

Whenever the main screen is accessed, the touchscreen displays the following information:


- number of programs;
- name of each program;
- number of timings for each program;
- type of each timing.

For each program you can:

- view and change the status (  or  icons);
- view and if necessary change the timing (a program can have more than one weekly/periodic/cyclic type of timing).

Tap the icon associated with the desired logic unit to access the screen displaying the list of programs it contains. The symbol to the left of the name indicates whether the program is paused (present) or playing (absent).




By tapping  you can change the current status of the program. If this icon is lit, the program is already in the paused state.






## Logic unit



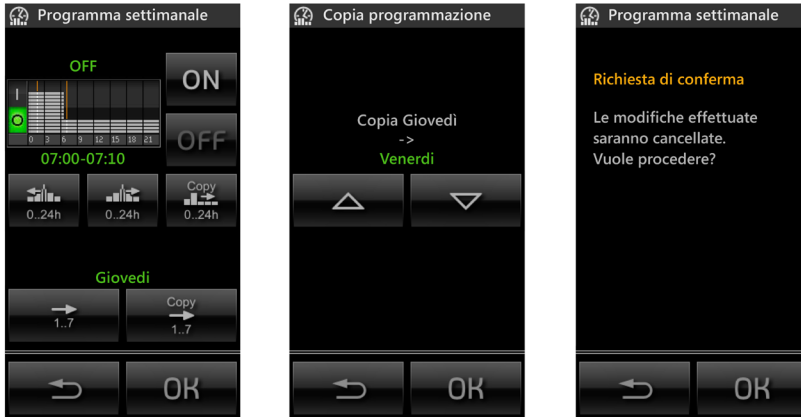
Tapping  displays the screen with the list of the times of the selected current program; for example, the detail screen of a program in which there are many different types of timing is as follows:





Use the  and  icons to scroll through the list of times while the symbol paired with each one of them is on the left next to its name and, on the screen, at top right.






Changing a weekly timing, which permits setting program activation, for each day of the week, at intervals of 10 minutes (minimum time), is done by touching  and is illustrated by the following screens:


## Logic unit



Touching  and  selects the desired range; the **ON** option activates the timing for 10 minutes while **OFF** deactivates it (the histogram will be updated).



The procedure must be repeated for all the ranges to be changed and lastly confirm with **OK**.


- To copy the setting of one range to another one/others, touch the  icon.
- Select another day of the week by touching  and proceed as above; using  it is possible to assign the day displayed with the weekly clock of any other day of the week; select the day to copy from with  and  and confirm with **OK**.

Changing a **periodic timing**, which lets you activate and deactivate the event, is done by touching  and is illustrated by the following screens:

## Logic unit








- Tap  and  to select the event or the set status.

Touching  and  sets the beginning and end time of each of the 2 events or of just one.

N.B. To delete an event, set the end time so it coincides with or is prior to its starting time. Deleting Event 1 also deletes Event 2.


The procedure must be repeated for all the ranges to be changed and lastly confirm with .

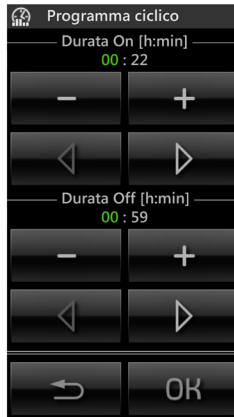
- Select another day of the week by touching  and proceed as above.
- The  icon enables copying the program of one day already set to another one still to be set; the procedure is similar to the one used for the weekly clock; select the day to copy with  and  and confirm with .





## Logic unit


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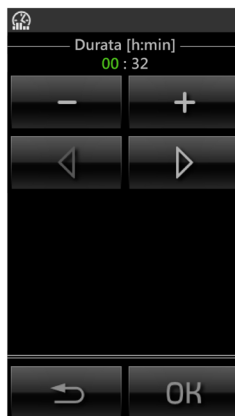
Changing a **cyclical timing**, which lets you cyclically repeat switching an event on/off according to the set duration and independently of the day, date and time, is done by touching  and is illustrated by the following screenshot:



- Set the ON duration (h:min) with  and .
- In a similar manner, set the OFF duration (h:min).



At the end, confirm the settings made by touching .

Changing a **Timing** lets you set the control duration in hours and minutes; this function must always be linked to 1 or 2 inputs and 1 or 2 output groups through an On-Off or Off-On type message. The change is made by tapping  and is illustrated by the following screenshot:



## Logic unit

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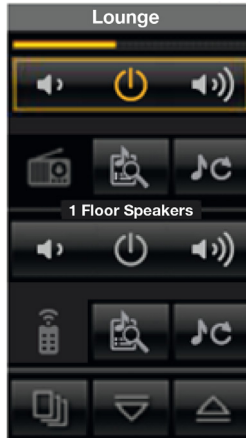
- Set the duration (h:min) with  and .

At the end, confirm the settings made by touching .




## Speaker System

### 9. SPEAKER SYSTEM.

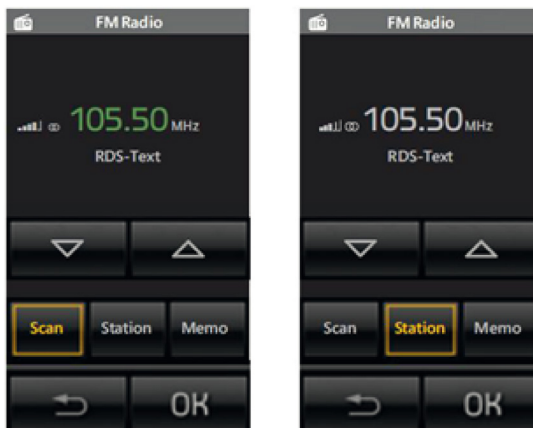
If the By-me system contains the speaker system and an audio zone is included on a page of the touchscreen, the screen displayed will be similar to the one shown below.



This screen is used to control switching the audio zone on/off and adjusting the volume.

- Touching  changes the channel for listening to the speaker system (changing the audio source).
- The  icon displays the type of source being listened to (in this case the transmitter 01900).
- Touching  displays the control screen of the active source.




The **FM radio control** screen for the speaker system is the following:










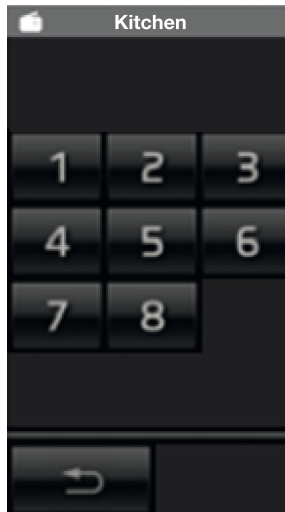
## Speaker System

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The screen displays all the relevant information on the tuned frequency, at the level of signal reception, and any RDS text broadcast by the station you are listening to.

The icons ,  and  enable setting the method of selecting the station you want to listen to:

- By touching  it is possible to use the   icons to find the previous station or the next one that the radio is able to receive.
- By touching  it is possible to use the   icons to select the previous or next station saved on the radio (it is in fact possible to save up to 8 different stations).
- By touching  it is possible to display the screen for saving the active broadcaster to one of the 8 stations that can be saved:



On this screen, by touching one of the 8 icons, it is possible to save the active broadcaster to the corresponding memory then automatically return to the previous screen.

## Speaker System

### 9.1 CONTROL FOR IPOD, IPHONE AND AUXILIARY SOURCES

If the sound system includes a Docking Station, by using the touch screen you can control:

- Apple devices (iPod/iPhone);
- auxiliary stereo sources.

Auxiliary stereo sources are connected to the Docking Station with the jack on its base; this input takes priority over any Apple device connected to the Docking Station and therefore the iPod/iPhone can only be controlled when there is no auxiliary source.

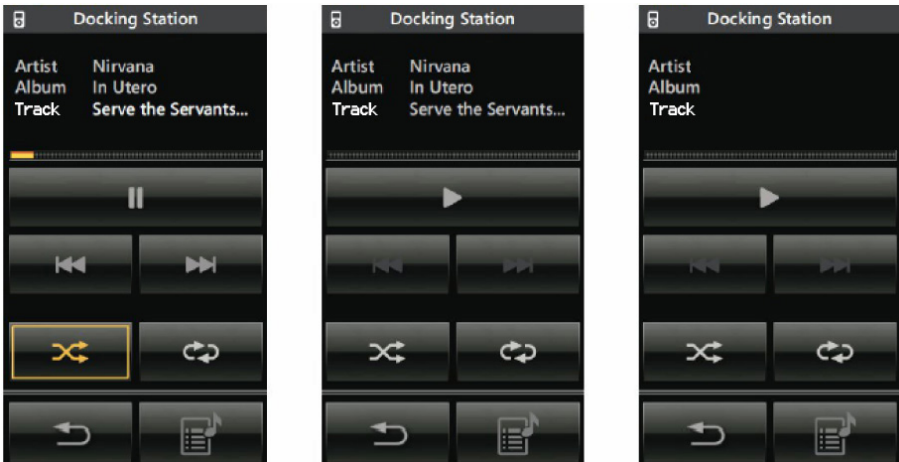
When the Apple device is connected, the zone page displays the button to access Docking Station control (central button, next to the icon representing the device) thus providing access to the Playback menu.

#### ■ PLAYBACK MENU

The Playback menu is displayed in two separate forms depending on whether the device is enabled for remote control.

##### Playback menu with remote control enabled

In this case, on touching the **Details button** on the zone page, the touch screen will display the **Playback menu** that provides information on the operating status of the Apple device and its control.



The three above screens illustrate respectively:

- the playback status of a track and the selection made for the **shuffle** or **repeat option** (in this case shuffle);
- the pause status in which the properties of the track being played are always visible;
- the stop playback status of the track.



## Speaker System

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The playback options, indicated with **shuffle** and **repeat**, can each have three different statuses:

- **Shuffle.**

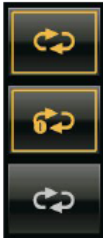


**Albums status:** plays the albums in the playlist in random order

**Tracks status:** plays the tracks in the playlist in random order

**Off status:** Shuffle option not activated

- **Repeat.**











**All Tracks status:** repeats the playlist cyclically

**One Track status:** plays the track now playing continuously

**Off status:** Repeat option not activated

With the playback menu it is therefore possible to:

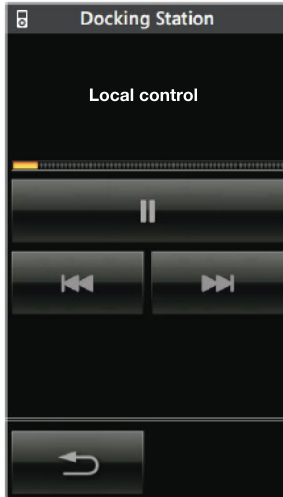
- select track play/pause (icons  and );
- shift playback to the previous track or the next one (icons  and );
- cyclically vary the **Shuffle** and **Repeat** (icons  and );
- access the device navigation menu (icon );
- exit the Playback menu and view the zone menu (icon ).

## Speaker System

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### Playback menu with remote control disabled

When the remote control is not enabled, the Playback menu displayed on the touch screen is the following:



In this case the display will no longer show:







- the words identifying the Artist, Album and Track;
- the Shuffle and Repeat options;
- access to the device navigation menu.

With the remote control disabled, it is possible to control only the play/pause status of the track now playing and to control the skip forward and back.

### ■ NAVIGATION MENU

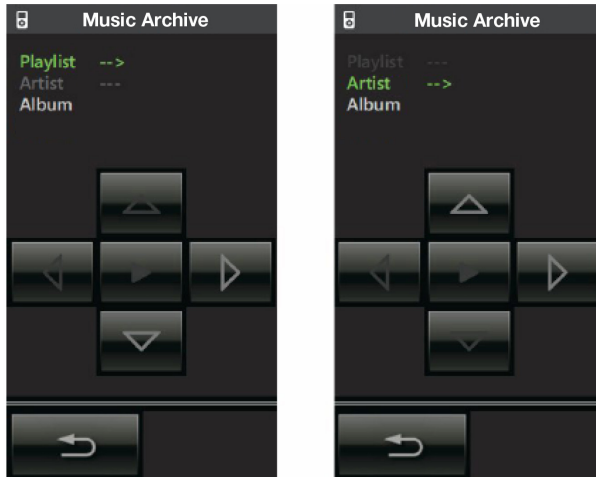
The navigation menu, accessible by touching the icon  of the Playback menu, enables browsing the database of the device connected to the Docking Station and editing the playlist currently being used.

The navigation menu screens are generally composed of:

- up to four words corresponding to Playlist, Artist, Album and Track;
- four navigation buttons (icons , ,  and );
- one confirmation button (icon );
- one button to exit the navigation menu (icon ).

Browsing through the database enables selecting the category of Playlist or Artist on the following screens:

## Speaker System



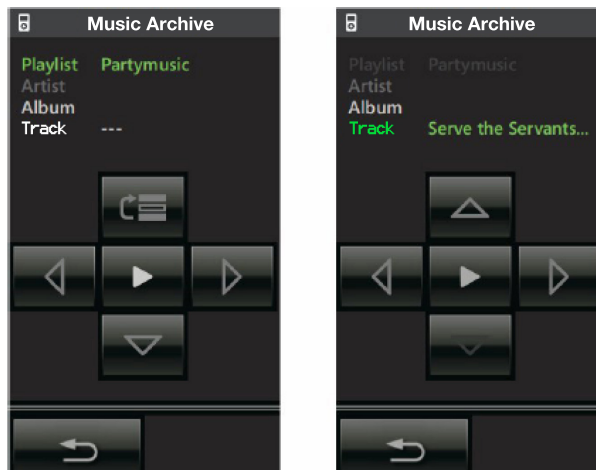
The current category is highlighted in green and, depending on the one selected, the only icons selected will be the ones for making the correlated moves.

For example: on "Playlist" touch the  icon to enter "Artist", then touching  displays the list of artists saved on the iPod/iPhone.

### Access from Playlist category


Browsing through this category enables selecting one of the playlists saved on the iPod/iPhone and selecting the track in the playlist from where to start playing.


The following screens are displayed:



## Speaker System

When accessing the Playlist category (left screen), the corresponding field will show the wording of the first item in this category saved on the Apple device.

The dotted line indicates the possibility of continuing to browse within the Tracks category; the confirmation button is enabled (icon ) to start playing the selected playlist, automatically returning to the playback menu.

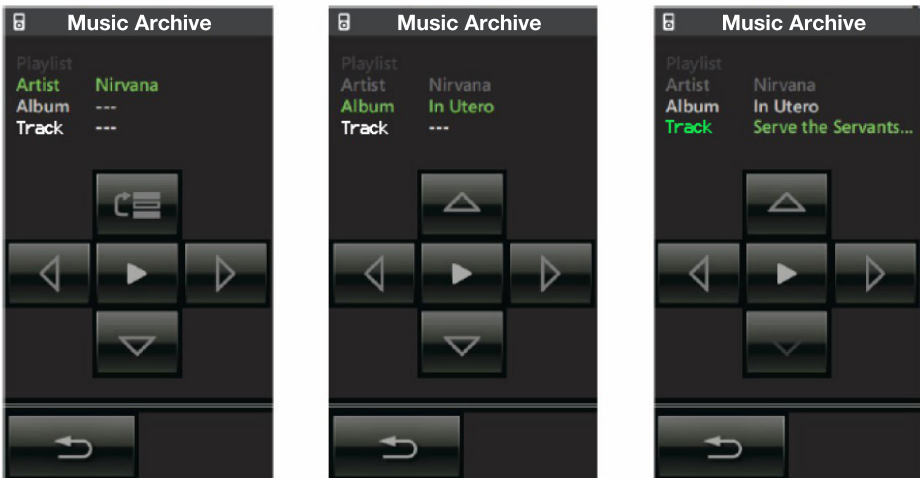
On the screen with the Playlist category browsable, the  button has different graphics and enables returning to the category selection screen (Playlist, Artist).

The  button is always active and enables returning to the playback menu without changing the current track playback status.


### Access from Artist category

Browsing through this category enables selecting one of the artists saved on the iPod/iPhone and then selecting the album and the track (of the selected artist) from where to start playing.

The following screens are displayed:



When accessing the Artist category (left screen), the corresponding field will show the wording of the first item in this category saved on the Apple device.

The dotted line indicates the possibility of continuing to browse within the Album and Tracks categories; the confirmation button is enabled (icon ) to start playing the active selection, automatically returning to the playback menu.

It is then possible to play all the content relating to a specific artist, to a specific album and lastly it is possible to choose the track with which to begin playing the album.

On the screen with the Artist category browsable, the  button has different graphics and enables returning to the category selection screen (Playlist, Artist).

The  button is always active and enables returning to the playback menu without changing the current track playback status.

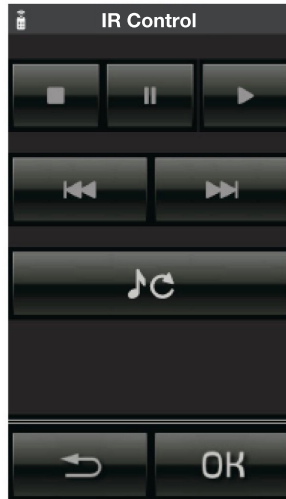
## Speaker System

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


### 9.2 CONTROL FOR RCA TRANSMITTER WITH IR INTERFACE

When a transmitter is configured together with an IR interface on an audio zone, it is possible to control the sound source connected to the transmitter by means of its RCA input.

The screen relating to this zone will show the icon for accessing the Details page associated with the transmitter. The screen for controlling the RCA transmitter associated with the IR interface is the following:



On this screen it is possible to:

- select the play/pause/stop status of the source playback (icons ,  and );
- shift playback to the track or to the previous or next one saved (icons  and );
- cyclically vary the internal source of the controlled device (icon ).

For these controls to be usable it is necessary for the installer, in the programming phase, to have appropriately configured them within the IR interface.

From the above screen it is always possible to return to the zone menu by touching  or .

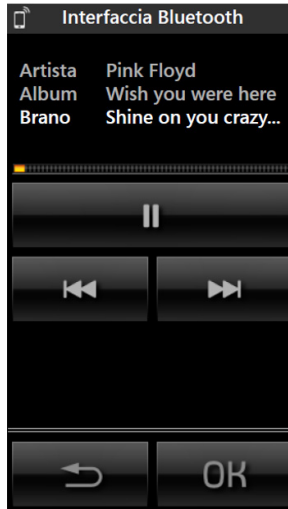
## Speaker System

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



### 9.3 BLUETOOTH INTERFACE CONTROL

When a Bluetooth interface is configured in an audio zone, it is possible to control some functions of the mobile device connected to the transmitter via Bluetooth.

The screen related to this zone will show the icon for access to the Details page associated with the transmitter. The following screen is for controlling the Bluetooth module:



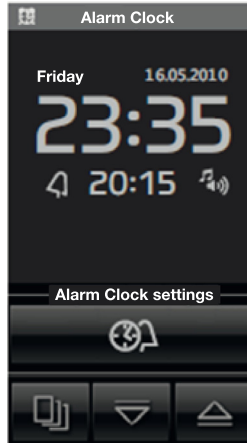
On this screen it is possible to:

- see the artist, album and track being played
- see the play or pause status of the track
- select the track play/pause status (icons  and );
- shift playback to the previous track or the next one (icons  and );
- exit the playback screen and display the zone menu (icon ).

## Alarm clock

### 10. ALARM CLOCK.

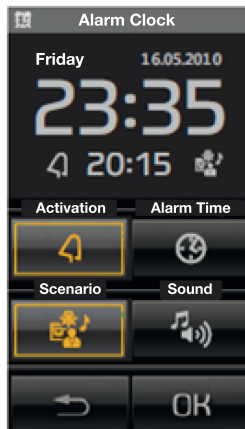
When combined with the speaker system, the touchscreen can also function as an **alarm clock**. The alarm clock control/setting screen is the following:



The touchscreen displays the following alarm clock settings:

- alarm clock on/off;
- activation time;
- scenario actuation/audio zone actuation.





- Touching  displays the alarm clock setting screen:



## Screen Saver

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On this screen it is possible to:

- enable/disable the alarm clock via the  icon;
- set the time via the  icon;
- select whether the alarm clock will activate a scenario (icon ) or simply switch on the audio zone (icon ).

### Alarm clock operation.

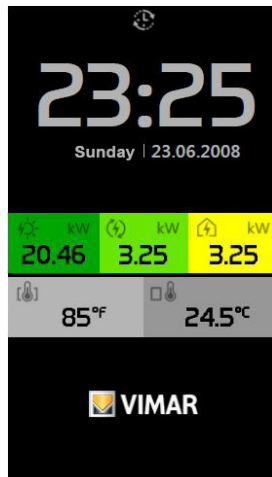
When the time of day coincides with the time set on the alarm clock, the touchscreen switches on to display the relevant screen and the system activates the selected audio zone or scenario.

The **Snooze** function is available whenever the alarm clock is activated and it can only be used until the following intervention of the screensaver; in this case, touching the touchscreen at any point temporarily deactivates the audio zone associated with the alarm clock (even if the scenario output is selected) and **will be reactivated after 8 minutes** (this applies to each activation of the "Snooze" function).

If the "Snooze" function is not used, the alarm clock will not reactivate the audio zone (which can be switched off with the normal By-me controls, with the touchscreen or with a scenario) but remains set to activate on the following day at the same time.

## 11. SCREEN SAVER.

Tap and hold your finger on the icon representing the title of some pages such as, for example, the main menu, the pages of the rooms, the main pages of the burglar alarm and those of load control, to view the screen that allows you to choose whether to set the selected page as your favourite page or as a screensaver.





## Cleaning - Compliance with regulations

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Once you see the screen that you want to set as your "favourite" and you tap and hold your finger on the title of this page (e.g., "room selection"), you have the following options for selecting the screensaver:

- approximately 2 minutes after tapping the icon on "As Favourite Page" switches off the touch screen and displays the date and time.
- approximately a minute after tapping the icon on "As Screensaver" loads the favourite page, regardless of the location in the menus, and lowers the backlighting of the touch screen to the value set as "Standby Backlighting".

**Note:** When present, the screensaver will display the local temperature measured by the probe and the value of energy produced, total consumed and self-consumed.

### 12. CLEANING OF TOUCH SCREEN.

Clean periodically the touch screen with soft and dry cloth.  
Do not use solvents and detergents.

### 13. COMPLIANCE WITH REGULATIONS.

EMC directive  
Standard EN 50428.



#### **WEEE - Information for users**

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one. Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m<sup>2</sup>, if they measure less than 25 cm. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

CE

21511.1 user EN 08 1806



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