VIMAR

User's Guide

01945-01946
Web Server By-me

HOME AUTOMATION

by-me
home automation

Vimar End-User License Contract

Vimar end-user license contract

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VIMAR SPA
Viale Vicenza, 14
36063 Marostica VI - Italy
https://www.vimar.com

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1. Introduction

1.1 What is VIMAR By-Web

VIMAR By-Web is a Web Server that allows you to manage your own By-me home automation through a PC, notebook, tablet or touch screen, as well as mobile devices provided with a browser capable of displaying web pages. For iPhone and iPod touch mobile devices, there is a special application available for download from iTunes, which allows faster access to the By-web functionality.

The management of the building can be performed both locally and remotely, as long as it provides a permanent connection to the Internet.

This manual explains how to use the functionality of By-web and is therefore bound to end users; the manual assumes that By-web has been properly configured by the installer, as reported in the "INSTALLATION INSTRUCTIONS". The manual refers to a typical example of configuration; the graphic screen of the user's own By-web may differ depending on the specific customizations made by the installer.

To access the Web Server you can use the following web browsers:

- Apple Safari (version 5.1 or above)
- Google Chrome (version 14 or above)

The Vimar By-Web Web Server is not compatible with browser Microsoft Internet Explorer.

1.2 Access to local network

It is possible to use VIMAR By-web with any device with a Web browser connected to the local network of the building, including through wireless connection. The following pages of this manual refer to a connection with PC/MAC using the Google Chrome browser.

To access By-web, simply open a browser window and type in the IP address assigned by the installer to the Web Server within the local network, the default address of the device is :

http://192.168.0.110

NOTE: Ask your installer for the address to use to connect to By-web; you should add that address to your browser's favorites so you do not have to type it every time.

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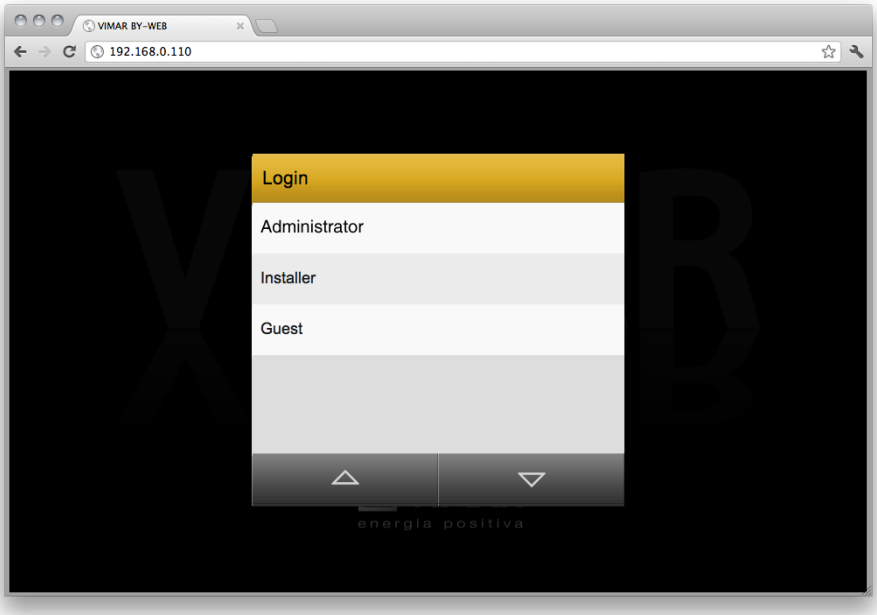
After a few seconds the following window is displayed:



Select the user to access By-web and type in the appropriate password; ask your installer access credentials to the Web Server and the related rights. The following table shows the list of By-web default users:

User	Password	Description
Administrator	**admin**	Home automation system administrator user. Has the rights to create users and manage their rights.
Installer	**poweruser**	User dedicated to installing and configuring the Web Server. He has the rights to perform any operation on the system, but cannot edit the rights of other users.
Guest	**guest**	Basic user for connections from the PC. Has the rights to view the status of the system, browse the pages of the Web Server and perform basic commands on the home automation system.

The screens shown later in this manual refer to a log in as "Administrator".

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At the bottom of the window for entering the login credentials is the "stay connected" checkbox.

Ticking the checkbox enables to store data, which allows faster subsequent access to the Web Server, if the following conditions are met:

- The IP address of the client where the access is taking place has not changed.
- The credentials of the user who logs in have not changed.
- At the end of the previous connection to the Web Server, the web browser has been shut down without quitting the Web Server session via the "Logout" button.

The first access to the Web Server after enabling this checkbox, provides additional time for storing the requested data.
If the above conditions are met, the login window for entering the login credentials to the Web Server is not displayed at the next access, and access to the Web Server functionality is faster.

If you exit the Web Server using the "Logout" button, the window for entering the login credentials will appear at the next login, and the user data will be stored again.

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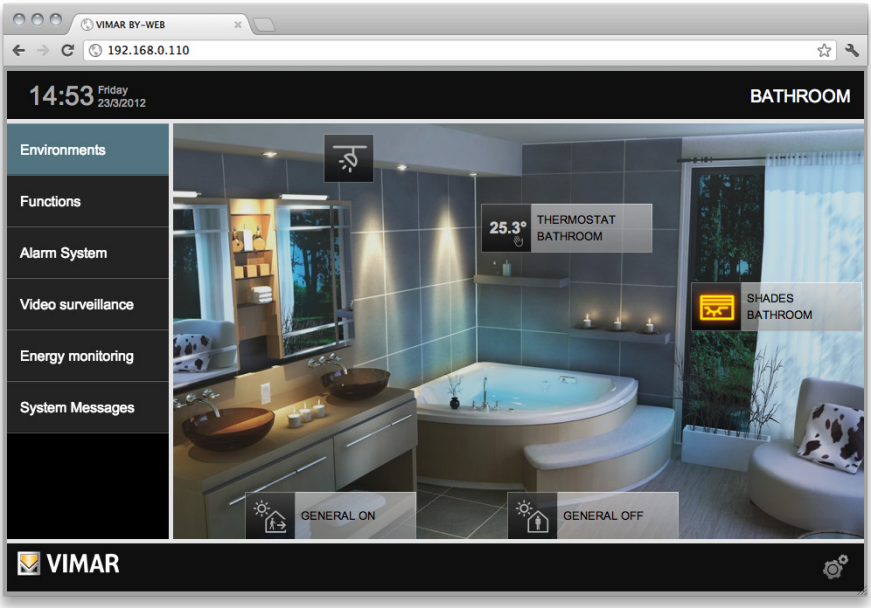
1.3 General Layout

The following figure shows a sample screen of By-web once logged in:



You may notice the following page elements are always available in all sections of the Web Server:

Date and Time	Available at the top left, showing the date and time of the Web Server. If not correct, adjust them through the appropriate page in the administration (see "INSTALLER MANUAL").
Environment or current function E.g.: "BATH"	Available at the top right, shows the section where you are at any time, be it an environment or a function.
Main Menu	Always visible on the left side of the page; allows you to access the main sections of By-web; in some cases, selecting an item involves opening a sub-menu for a few seconds where you can choose the environment or the specific function you want to access.
Menu Button	Always available at the bottom right, displays a context menu that shows the possible actions available according to the page where you are. Through this button you can access the GENERAL SETTINGS section or LOGOUT (this is required if you want access as another user, or prevent the PC or device you are using from accessing By-web).
Help Button	It displays a guide depending on the section where you are and the task you are performing. **NOTE:** feature not available in the current version of By-web.
VIMAR Logo	Allows to return to the main page at any time.

2. Environments and functions

2.1 Introduction

VIMAR By-web allows you to "browse" through the functions of your home automation system using two separate criteria: browsing by ENVIRONMENTS allows you to manage the functions according to their location in the building, while browsing by FUNCTIONS allows direct access to all the functions of the same type, irrespective of their location in the building.

The list of ENVIRONMENTS is customized by the installer according to the structure of the building and home automation system; it may also contain pages consisting of sets of functions not necessarily connected to an environment of the building, such as, for example, the "favorites". Conversely, the list of FUNCTION cannot be changed.

2.2 Environments Menu

Pressing the "SETTINGS" button in the main menu shows a sub-menu containing the list of available environments; select the desired item to access the corresponding page. The sub-menu will close automatically after a few seconds, or after selecting the desired item, in order to free the page. In the case of configurations with a high number of environments, two arrow buttons are available at the top and bottom of the menu, with which scroll through the list.

The pages relating to the environments can be configured in "GRID" or "MAP" view; for further details, please refer to the following sections of this chapter.

2.3 Functions Menu

Pressing the "FUNCTIONS" button in main menu shows a sub-menu listing the types of functions available in your home automation system; each of these items allows you to view all the functions of the same type:

Lighting	Turning lights on and offON/OFF, adjusting of lights dimmed, controllable outlets, etc...
Blinds	Operation of motorized blinds and curtains, opening/closing gates etc ...
Climate	Management of different climatic zones heating and/or air conditioning.
Scenarios	Implementation and customization of scenarios with which to perform multiple commands on the home automation system.
Event programs	Management of Event programs and related scheduling.
Logic programs	Management of Logic programs and related scheduling.
Load control	Energy monitoring and management of load control.
Audio	Management of sound system (RCA audio input and FM radio tuner)

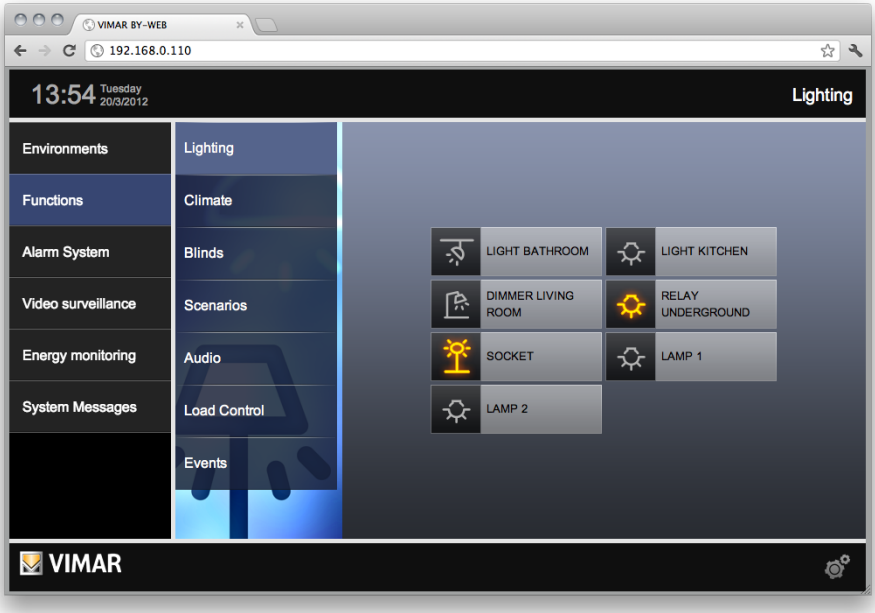
CAUTION: For the flush-mounted controls only (art. 01480, 01481, 01482, 01485, 01486 and 01487), the function of pressing the button briefly or holding it down dynamically change the behaviour of the timer actuator (from monostable timed to bistable or vice versa) configured in the same group.

The pages relating to functions involve only the "GRID" view; for further details, please refer to the following sections.

Environments and functions

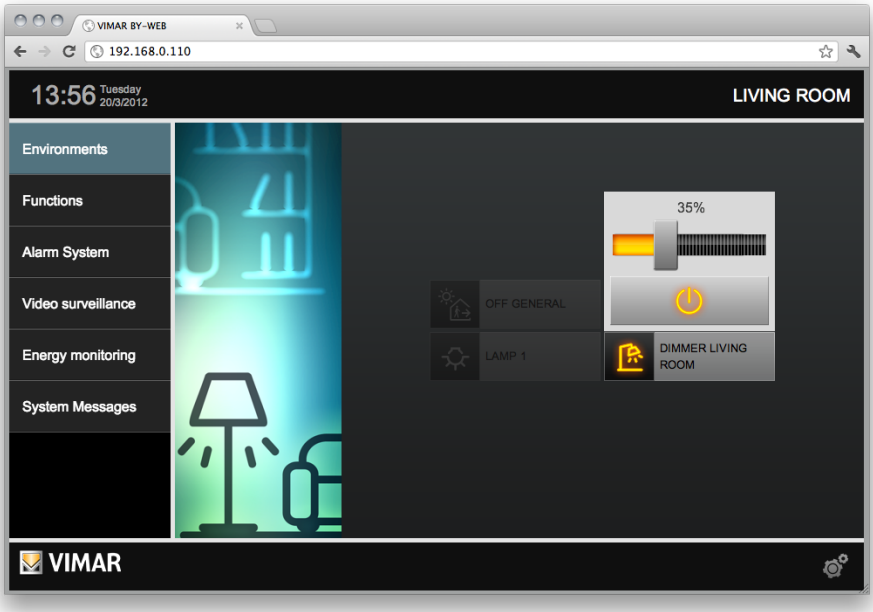
2.4 Pages in grid view

The functions or environments pages in grid mode provide visualization of home automation functions in tabular form, as exemplified in the following figure:



Environments and functions

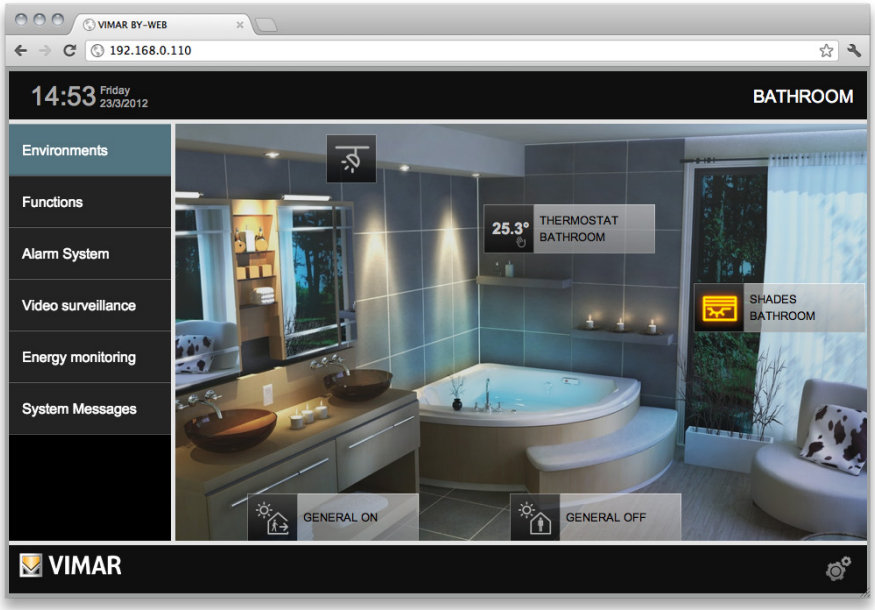
By clicking on a function icon, you can command it directly (in the case of simple functions, such as lights ON/OFF), or open a "popup" to manage it; for more details, see the next chapter of this manual, which examines all the different types of functions and how to manage them.



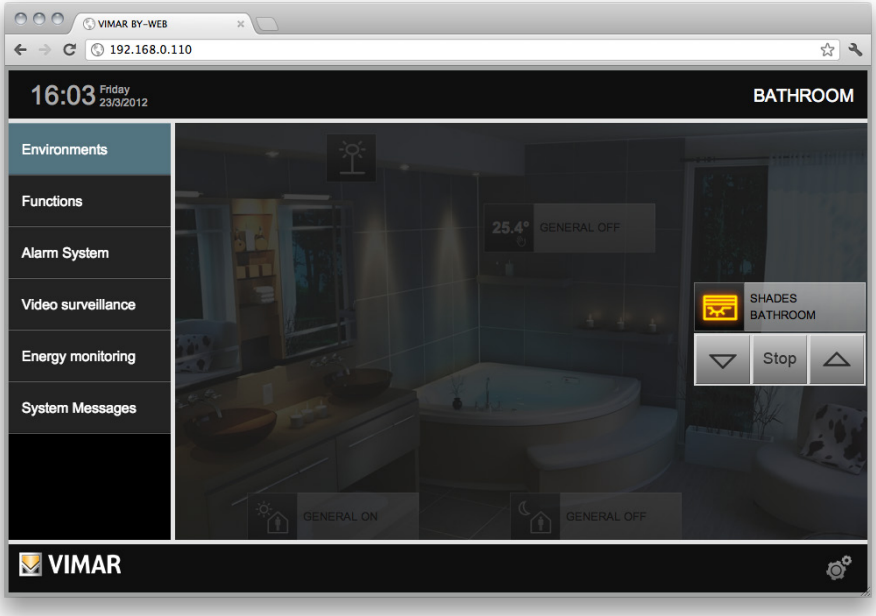
Environments and functions

2.5 Pages in map view

The pages of the environments can be configured to be displayed as a MAP, or with individual functions placed over a background image, be it a photograph, a plan or a *3D rendering*. The figure below shows an example of an environment displayed as a MAP:



Again, pressing a function icon, you can command it directly, or open the command "popup", as follows:



For more details on specific functions, see the next chapter of this manual.

2.6 PIN-protected room pages

As of version 2.0 of the web server software you can protect access to the room pages by requesting a numerical PIN (minimum 4 digits, maximum 6 digits).

If envisaged by the configuration (possible only for Administrator or Installer users), on selecting the menu item for a PIN-protected room, a window appears with the numeric keypad for entering the PIN.

To view the page of the PIN-protected room, enter the code number and press the OK push button on the numeric keypad: if the PIN is correct you access the room page, otherwise an invalid code alert is displayed.

2.7 Favourites Page

Starting with version 2.0 of the Web Server software (art. 01945, art. 01946), a "Favourites" page has been added where you can add your most frequently used system objects.

An object added to the Favourites page is a copy of the original object, which in any case remains in its original position as well (rooms or functions page).

The Favourites page is a special page on the web server that has the following characteristics:

- Objects are added to this page directly from the pages of the Web Server user section, and therefore this can also be done by users who do not have access to the General Settings section.
- Objects are deleted from this page directly from the Favourites page, so also by users who do not have access to the General Settings section.
- The Favourites page is unique for all web server users, although object visibility depends on the room visibility privileges and on the presence of any PIN-protected rooms.
- You access the Favourites page by selecting the appropriate item from the main menu.

  In the By-web apps, in addition to the menu item, there is also a specific icon for accessing the Favourites page (♥ in the By-web app for Android and ☆ in the By-web app for iOS).

2.7.1 Adding objects to the Favourites page

To add an object to the Favourites page, perform the following steps:

1. Go to the page containing the object you want to add to the Favourites page (it can be either a page of the Rooms menu or of the Functions menu).
2. Tap the  icon in the bottom horizontal bar of the Web Server (using the By-web apps, this icon appears in the top horizontal bar). A drop-down menu appears containing the "Add to Favourites" item.
3. Select the "Add to Favourites" menu item. An alert appears asking you to select the object you want to add to your Favourites. To cancel the operation press the "X" push button to the right of the alert.

   In the window it is possible to select only objects that are not already present on the Favourites page: objects already on the Favourites page, which are therefore not selectable, appear semitransparent.
4. Select the object you want to add to your Favourites. A successful addition to the favourites page is confirmed by an alert message.
5. Repeat the procedure from step 1 for all the objects that you want to add to your Favourites page.

2.7.2 Deleting objects from the Favourites page

To delete an object from the Favourites page, perform the following steps:

1. Go to the Favourites page.
2. Tap the  icon in the bottom horizontal bar of the Web Server (using the By-web apps, this icon appears in the top horizontal bar). A drop-down menu appears containing the "Add to Favourites" item.
3. Select the "Remove from Favourites" menu item. An alert appears asking you to select the object you want to delete from your Favourites. To cancel the operation press the "X" push button to the right of the alert.
4. Select the object you want to delete from your Favourites. A successful removal from the favourites page is confirmed by an alert message.
5. Repeat the procedure from step 1 for all the objects that you want to delete from your Favourites page.

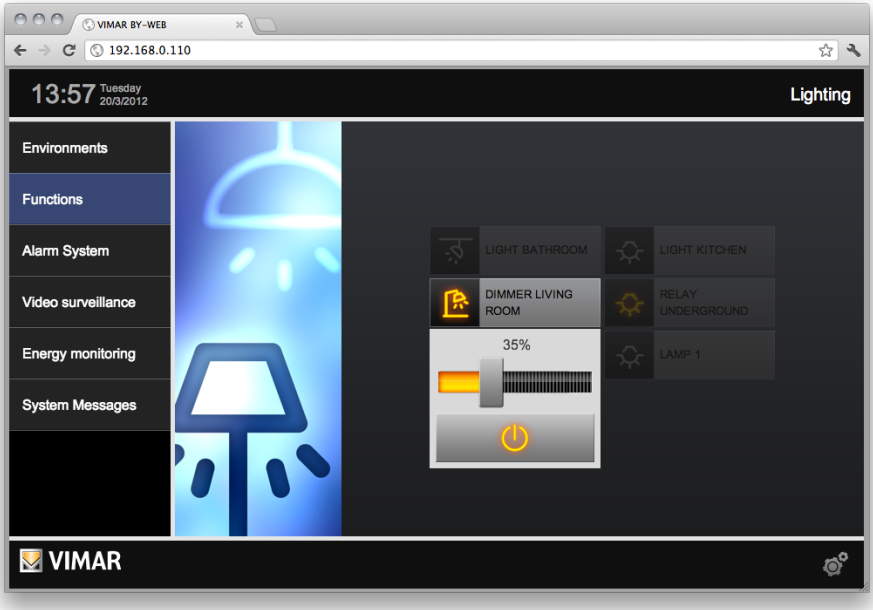
3. Management of lights and shutters

3.1 Lights and implementations ON/OFF

The lights and ON/OFF activations can be controlled directly from the ENVIRONMENTS and FUNCTIONS pages, simply by pressing the corresponding icon; at any time the icon shows the status of the corresponding function.

3.2 Lights dimmed

The lights with dimmer control open a "popup" when clicking on the corresponding icon, as shown in the figure below:

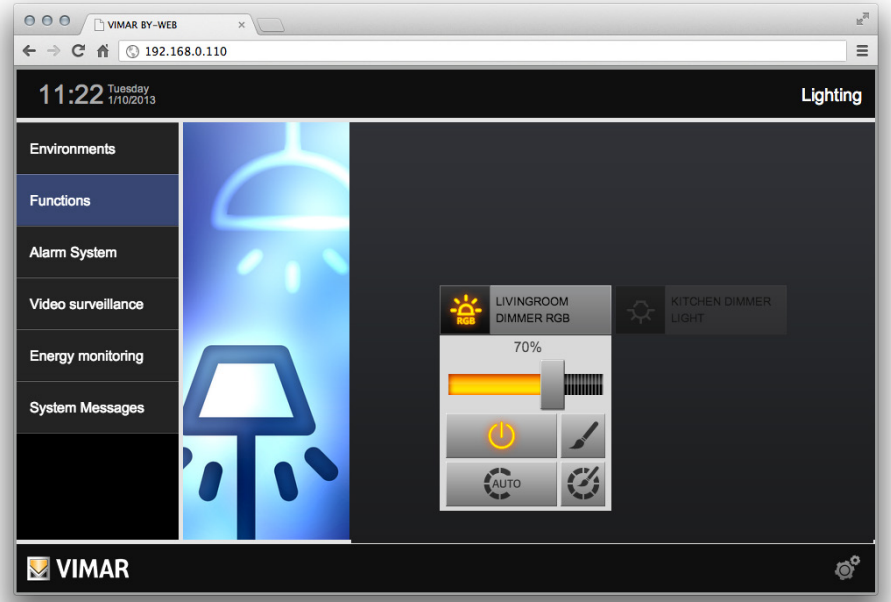


By dragging the scroll bar you can set the adjustment from 0% to 100%, while the button at the bottom of the popup allows you to turn the lights on or off.

The popup closes automatically after a few seconds, or you can close it by pressing the function icon. While the popup is opened, it is possible to use the additional features of the page, but you can use the main menu to access other sections of By-web.

3.3 RGB dimmed lights

The lights with RGB dimmer control open a "popup" when clicking on the corresponding icon, as shown in the figure below:



Drag the slider bar, in order to set the brightness adjustment from 0% to 100%.

Press the "ON/OFF button" in order to turn on or off the light.

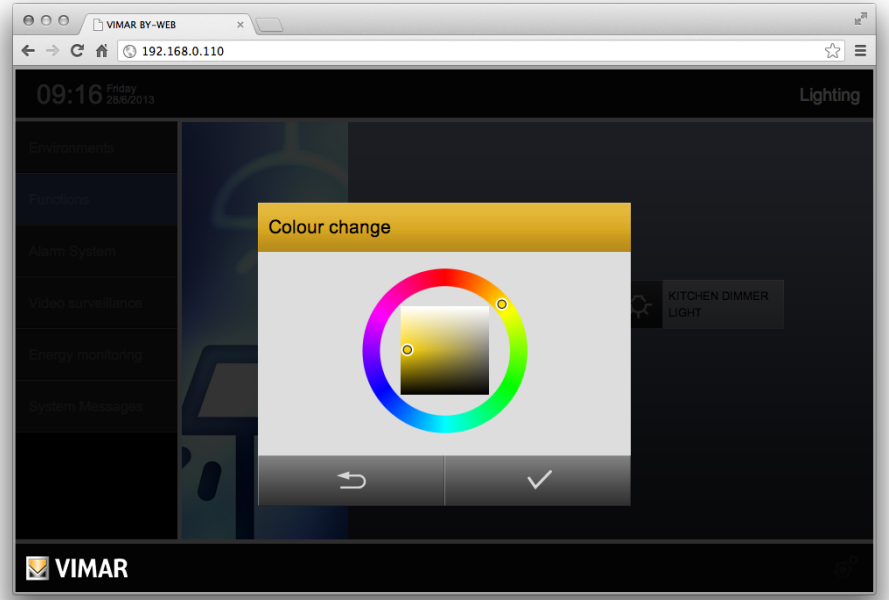
Press the button on the top right, in order to set the color of the light, as described in chapter "3.3.1 Light color setup".

Press the button "AUTO" in order to enable or disable the “fading show” mode, as described in chapter "3.3.2. Fading show mode ON/OFF".

The popup closes automatically after a few seconds, or you can close it by pressing the function icon. While the popup is opened, it is possible to use the additional features of the page, but you can use the main menu to access other sections of By-web.

3.3.1 Light color setup

Press the button in the RGB dimmer widget for setting the color of the light to access the window for setting the color of the light, as shown in the following figure:

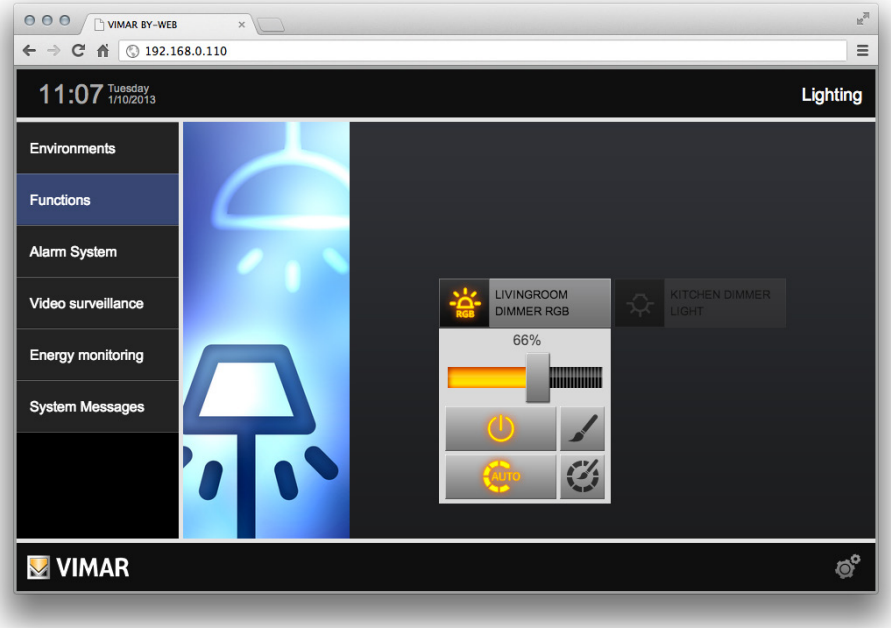


The color of the RGB dimmer light can be set by changing the hue, saturation, and brightness of the dimmer light, using the tool in the previous figure, consisting of a circle with a square inside.
Select a point on the horizontal bar, in order to change the color tone of the dimmer.
Select a point inside the square, in order to change the saturation and brightness of the light.
After obtaining the desired color, press the button to confirm the setting and proceed with the requested change. After confirming the command, press the "Cancel" button to exit the RGB dimmer color setup window and return to the previous page.
If the color change is a confirmed, it overrides the previous RGB dimmer setup.
Select the black color to switch off the dimmer (OFF).

3.3.2 Fading show mode ON/OFF

The button "AUTO", of the RGB dimmer widget, allows to activate or deactivate the fading show mode provided by the RGB dimmer, with the settings included in the device.
The state of activation of this mode is indicated by the state of the button above.
To exit the fading show mode, press the fading show on/off button, or do one of the following:

- Turn off the RGB dimmer via the "ON/OFF button.
- Change the color of the dimmer light from the specific window (Chapter 3.3.1 "Light color setup").

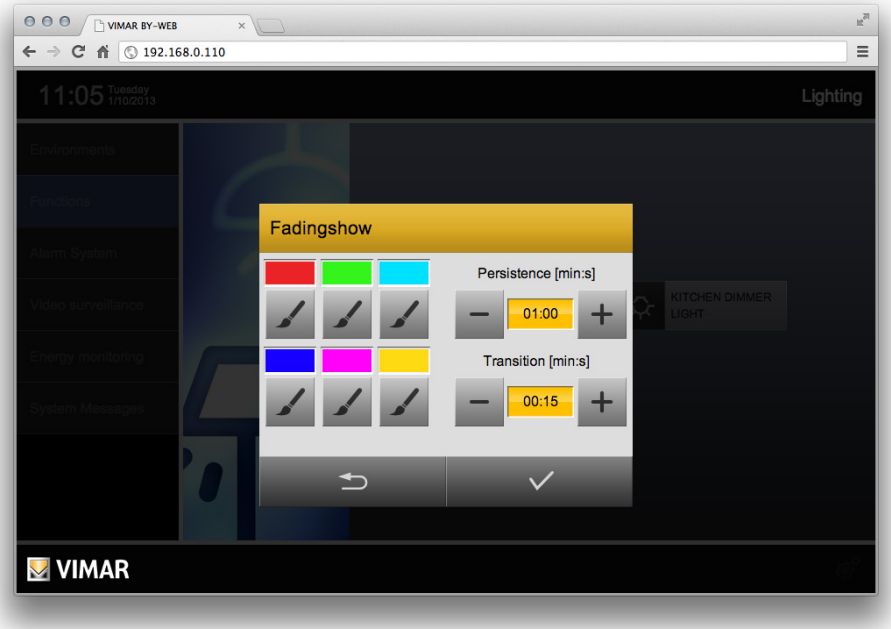


3.3.3 Changing the RGB dimmer Fading Show settings

Pressing the Fading show configuration button, located on the RGB dimmer widget, you can select the colours to be displayed and the relative persistence and transition timings.

FADING SHOW SETTING: button on the rgb dimmer widget which allows you to open the window for changing the colours and relative timings of the Fading show.

When opening the Fading show edit window, all the setting data (the colours of the fading show sequence and timings) stored in the device at that time is displayed, as shown in the figure below.



The Fading show can be edited using the buttons described below:

EDIT COLOUR: it allows access to the edit window of the colour of the LEDs.

PERSISTENCE/TRANSITION TIME: The buttons allow you to change the persistence and transition time of the fading show cycle colours.

COLOUR EXCLUSION: the button excludes the selected colour from the fading show sequence.

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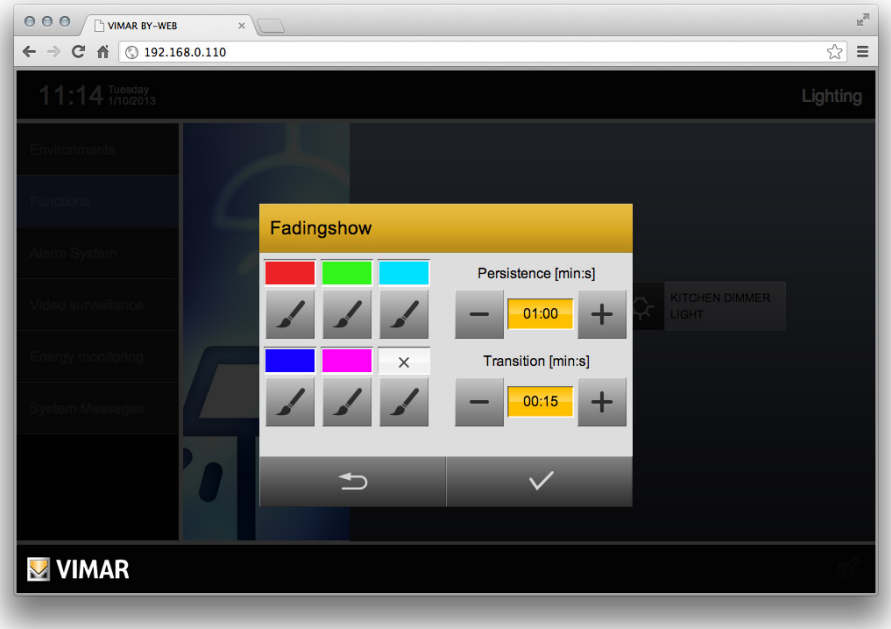
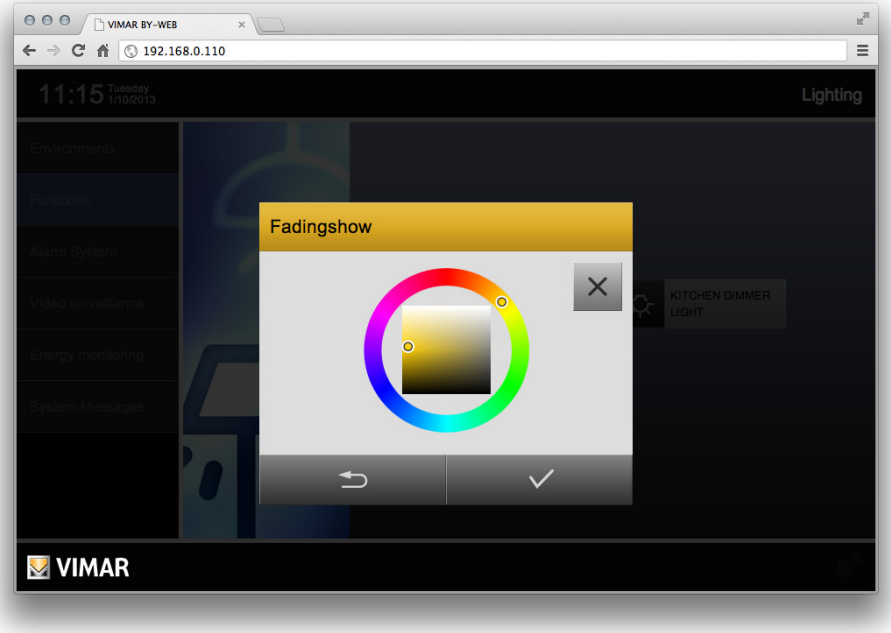
After changing the parameters in the window, pressing the confirmation button saves the data to the device, while by pressing the "back" button, the set data is ignored and not saved.



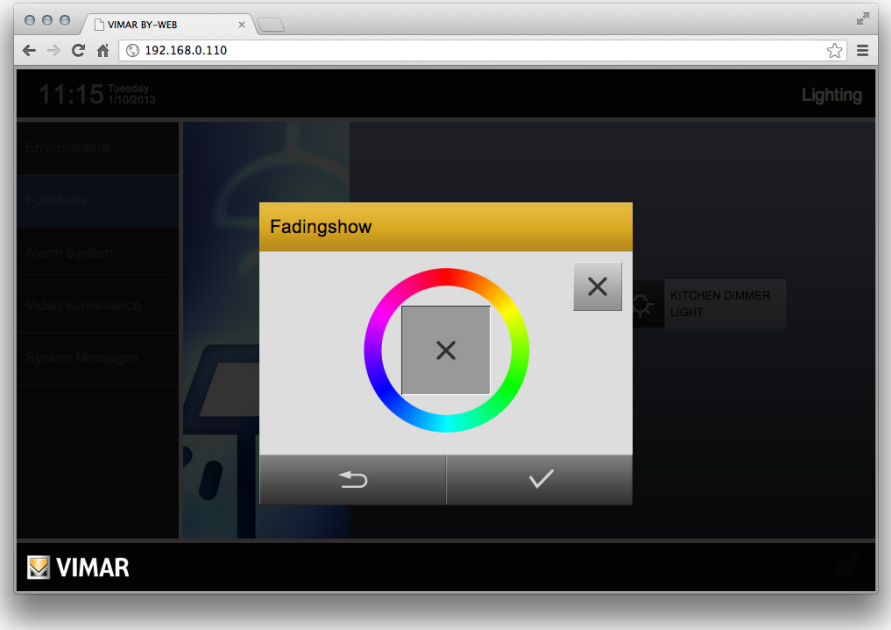
3.3.4 Changing one of the colours of the fading show

To change one of the fading show cycle colours, press the "change colour" button under the box corresponding to colour to be changed, so as to open the window for setting the colour, shown below.



Management of Lights and Shutters

It is possible to exclude the selected colour from the fading show sequence, by pressing the "colour exclusion" button on the top right. After excluding the chosen colour, the window takes on the appearance shown in the following figure:



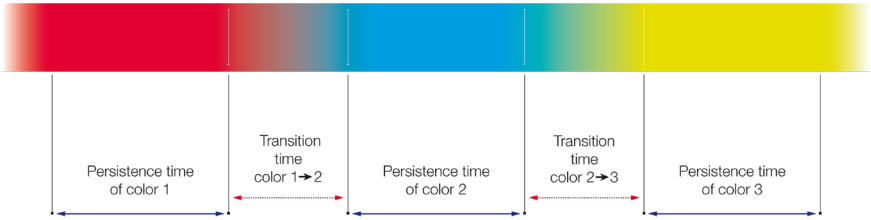
After defining the desired colour, press the "confirm" button (on top right) to confirm your choice; otherwise, press "back" (on bottom left) to exit the window and cancel the operation.

3.3.5 The timing parameters of the fading show cycle

The device provides two parameters to set the timing of the fading show cycle:

- **Persistence time**: it is the persistence time for each colour (same value for all the colours of the cycle).
- **Transition time**: it is the variation time between one colour and the next (same value for all the transitions of the cycle).

The meaning of the two parameters is described in the following illustration.



The user interface of the Web Server provides direct setting of these parameters, whose characteristics are summarized in the following table:

Parameter	Format	Min	Max	Step
Persistence time	mm:ss	00:00	59:59	00:01
Transition time	mm:ss	00:00	59:59	00:01

The total duration of the fading show cycle is given by the number of set colours (except those excluded) multiplied by the sum of the two times (transition time and persistence time).

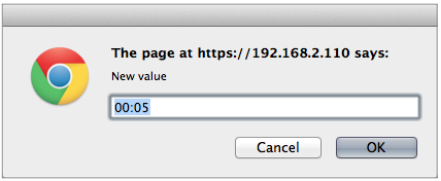
3.3.6 Setting the fading show cycle colour persistence time

The fading show cycle colour persistence time can be set by pressing the section of the Setup window displayed in the following figure:

Pressing the "+" button increases the time by 1sec. intervals.

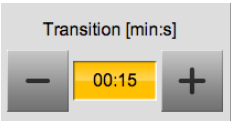
Pressing the "-" button decreases the time by 1sec. intervals.

By clicking the text field that displays the time you can enter the time from the keyboard, using the following input window:



3.3.7 Setting the fading show cycle colour transition time

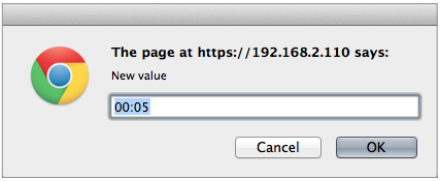
The fading show cycle colour transition time can be set by pressing the section of the Setup window displayed in the following figure:



Pressing the "+" button increases the time by 1sec. intervals.

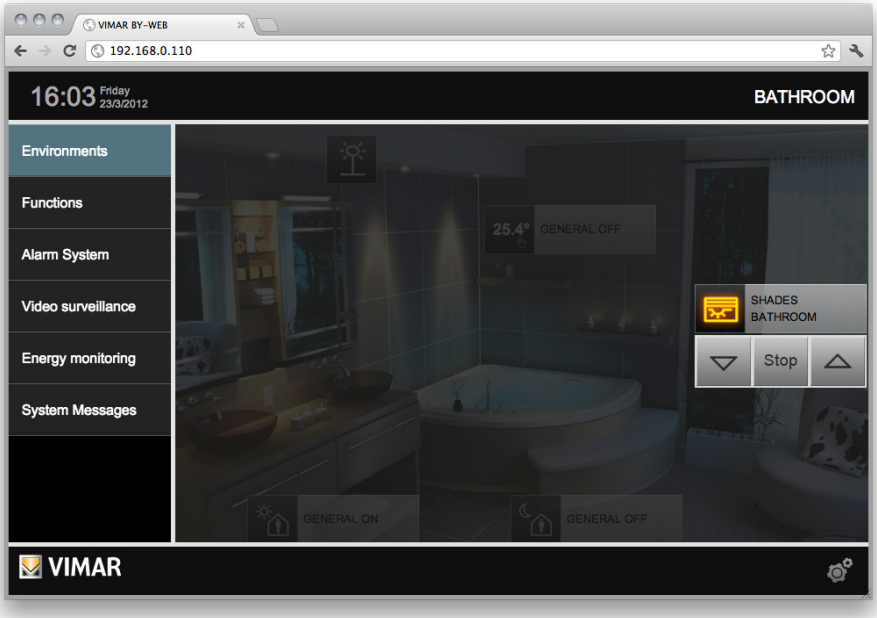
Pressing the "-" button decreases the time by 1sec. intervals.

By clicking the text field that displays the time you can enter the time from the keyboard, using the following input window



3.4 Shutters and movement

Shutters, curtains and motorized gates can be operated by pressing the corresponding icon and using the buttons in the corresponding popup, as exemplified in the following figure:



In the case of vertical movement of shutters and curtains, the popup provides the following buttons:

LOWER: activates the movement down. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

Stop **STOP**: if the frame is in motion, makes it possible to arrest the stroke. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

LIFT: activates the movement up. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

SLATS RIGHT TILT: activates the movement of the slats towards right
(The management of this operation is only possible if the actuators are 01852.2, 14527.1, 16967.1, 20527.1).

SLATS LEFT TILT: activates the movement of the slats towards left (the management of this operation is only possible if the actuators are 01852.2, 14527.1, 16967.1, 20527.1).

In the case of gates to opening/closing horizontally, the popup displays the following buttons:

OPEN: activates the movement to open the gate. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

Stop **STOP**: if the frame is in motion, makes it possible to arrest the stroke. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

CLOSE: activates the movement to close the gate. The icon is illuminated briefly to indicate that the command was sent, after which it returns to its original state.

3.4.1 Management of item 01476

The Vimar 01476 device provides an output for shutter control with slat movement.

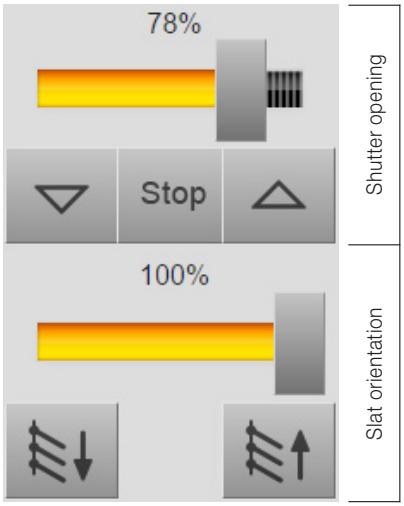
In addition to the previously described commands, item 01476 provides the ability to set a percentage value for the opening of the shutter and a percentage value for the orientation of the slats.

The device also allows to know the percentage of the shutter opening and orientation of the slats.

If required by the device configuration, the web server allows to change the percentage of the opening of the shutter and slat position by two sliders displayed in the widget of the shutter. After releasing the cursor to the desired position, the web server sends the corresponding command to device 01476.

The shutter icon shows the percentage value of the opening, as shown below:

The widget for shutter management (in its most complete configuration) is represented below:



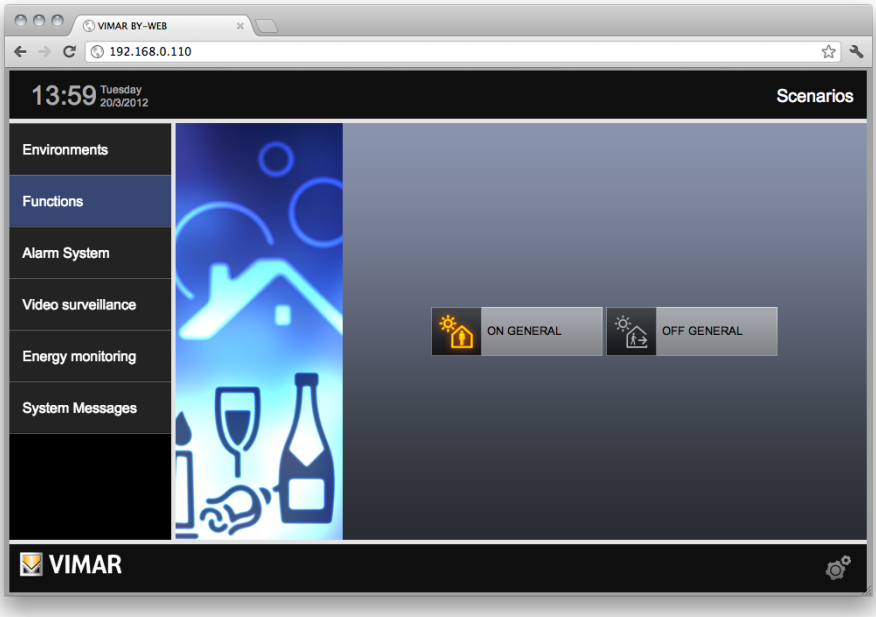
100% - Complete closure of the shutter
0% - Complete aperture of the shutter

4. Scenarios management

4.1 Running scenarios

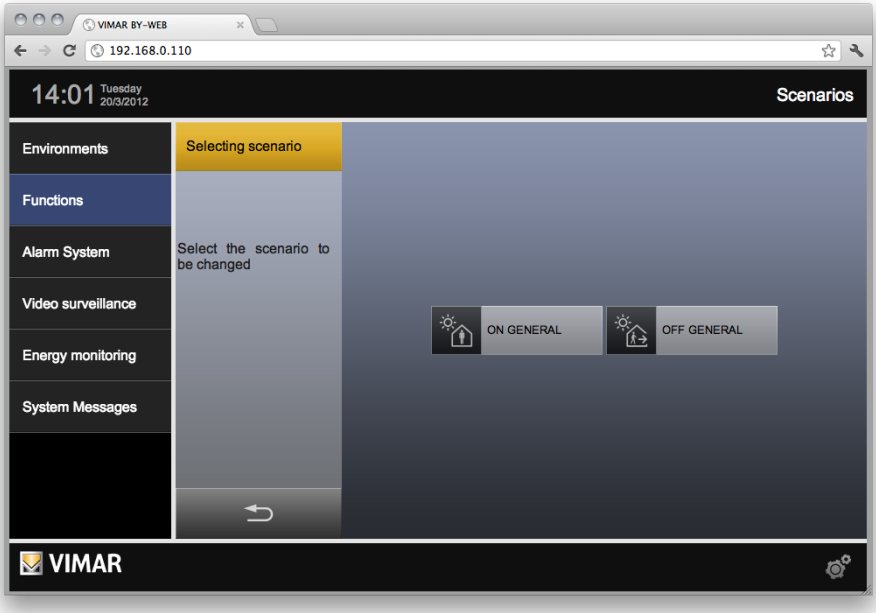
The scenarios set up in By-me control unit can be accessed from By-web through the corresponding buttons on the SCENARIOS ➡ FUNCTIONS page, or from the environments where the installer has put them.

Pressing the button of a scenario, the corresponding icon will illuminate for a few seconds to indicate proper performance, after which it returns to its original state.



4.2 Editing to Scenario

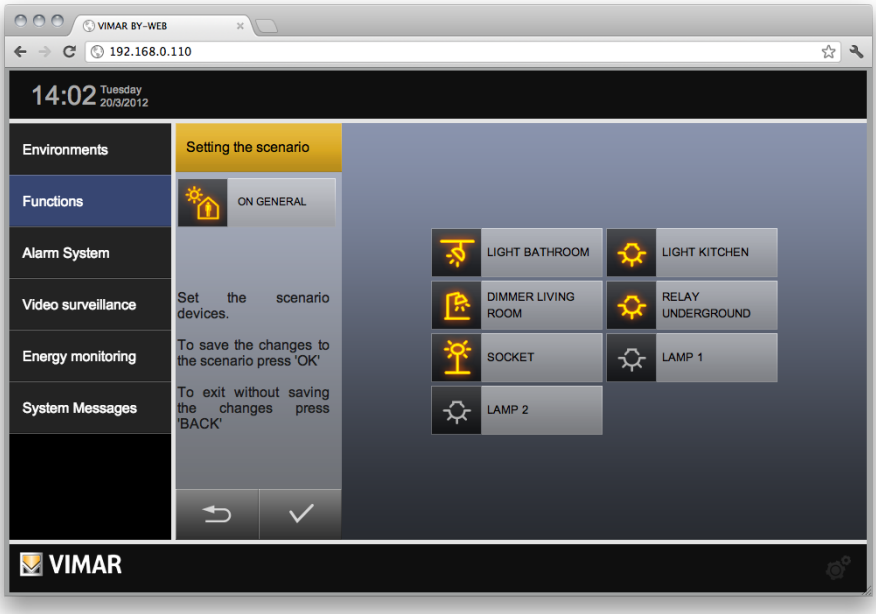
From the page SCENARIOS ➡ FUNCTIONS you can change the status of each function associated with a scenario. Pressing the MENU button at the bottom right, select "CHANGE SCENARIO"; the screen is shown below:



As indicated in the side menu (which temporarily "covers" the image of the SCENARIOS function), press the icon corresponding to the scenario you want to change; or, alternatively, use the "CANCEL" button below to return to normal viewing.

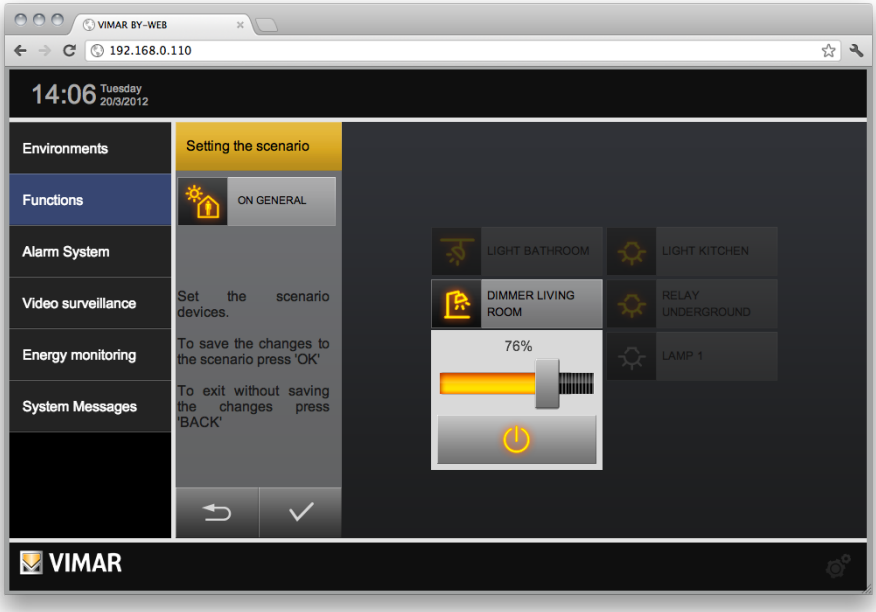
Scenarios management

Selecting a scenario to be edited, this one is run (in order to bring all the functions to the status provided for the scenario itself), then the following screen is displayed, where are all the functions associated with it:



Scenarios management

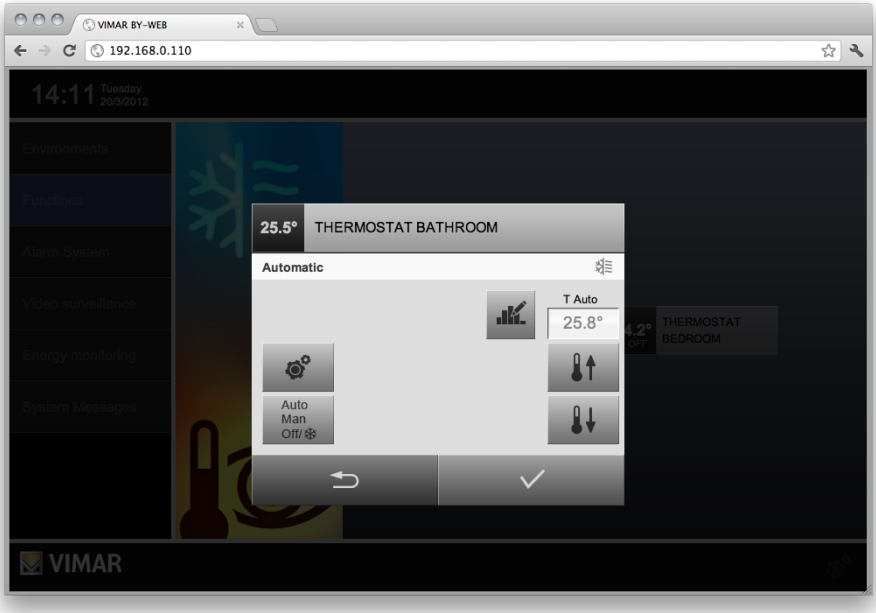
Change the status of each function using the buttons in By-web or directly activating them (during this operation, the LEDs of the buttons associated to the scenario will flash, to help with identification) and then press the "SAVE" button to confirm the new configuration. Alternatively, press "CANCEL" to not save changes



5. Climate management

5.1 Thermostats control

In the pages related to ENVIRONMENT and CLIMATE function you can see the temperature measured in real time by the thermostats in the system; clicking on the corresponding button opens the control of the corresponding thermostat:



The title bar always shows the name of the thermostat, as well as the measured temperature; the section of the window immediately below shows the working mode of the thermostat (left) and the season (heating/air conditioning - on the right).

Climate management

Depending on the current operating mode, the control window of the thermostat provides the following buttons:

MODE: allows you to change the working mode of the thermostat. This button displays a list of possible modes to set the thermostat; the list depends on the current mode. Selecting an item from this list updates the control window of the thermostat to allow adjustment of the parameters specified in the new mode.

LOCAL SETTINGS: allows you to change the season of the thermostat (heating or cooling) and the unit of measurement.
NOTE: the unit of measurement cannot be changed in the current version of By-web.

INCREASE SETPOINT: when required, allows to increase the setpoint temperature for the current mode of a tenth of a degree.
NOTE: If the thermostat is in AUTO mode, pressing this button changes the mode to "TIMED MANUAL".

DECREASE SETPOINT: when required, allows to decrease the setpoint temperature for the current mode of a tenth of a degree.
NOTE: If the thermostat is in AUTO mode, pressing this button changes the mode to "TIMED MANUAL".

INCREASE TIME: when required (timed mode), it increases the timing of an hour.

DECREASE TIME: when required (timed mode), it decreases the timing of an hour.

MANAGE PROGRAM: when the thermostat is in AUTO mode, allows you to access the weekly program management window of the climate zone which the thermostat is part of.
For more details, see the next section of this chapter.

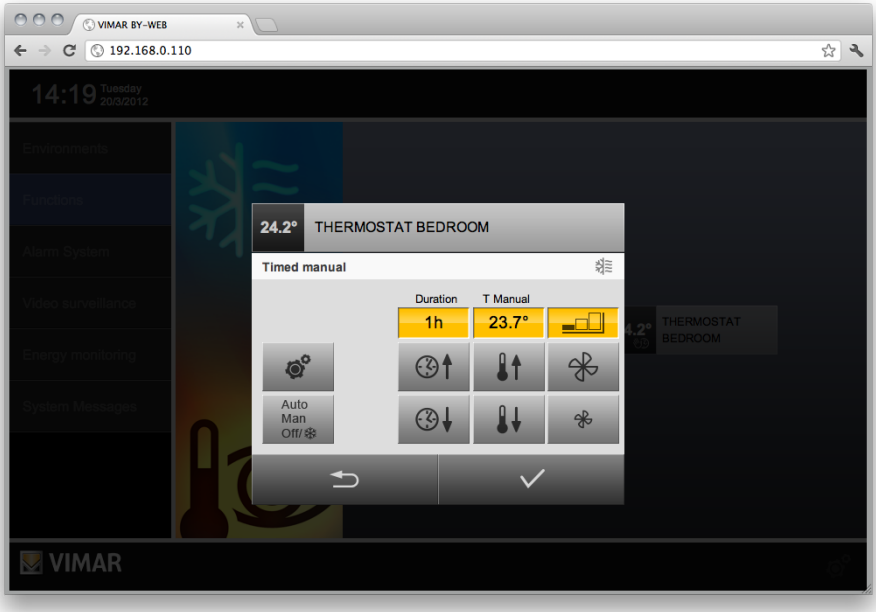
In the case of thermostats with fan-coil management, are also available the following buttons:

INCREASE FANS SPEED: increases the speed of the fans. Possible settings: SPEED 1, SPEED 2, SPEED 3, AUTO.

DECREASE FANS SPEED: decreases the speed of the fans.

Climate management

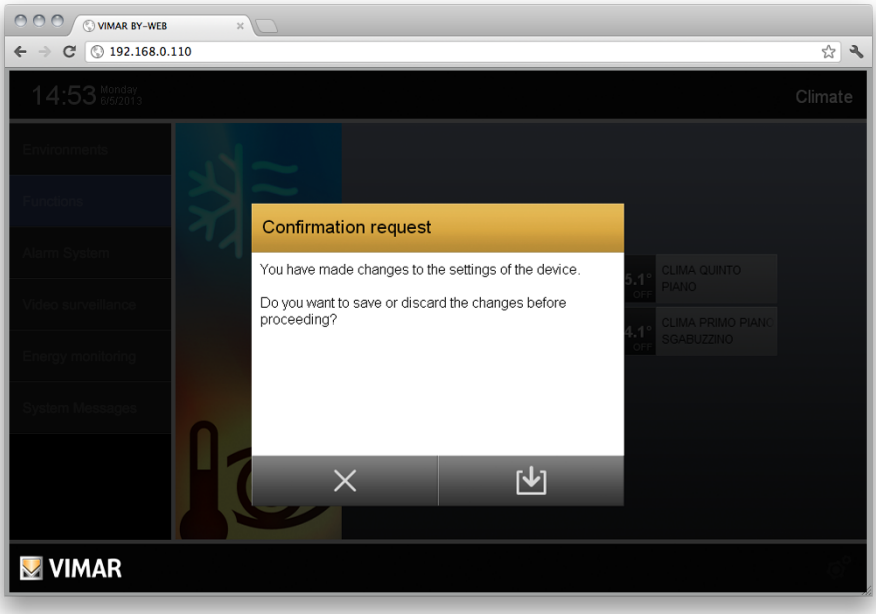
The figure below shows an example of a thermostat management window of with fan¬coil management, in "TIMED MANUAL" mode (which requires all user adjustments: setpoint, timing and speed of the fans):



From the temperature and time set point settings (for the operating modes that require it, and, in any case, other than in the "AUTOMATIC" mode), you can speed up data entry by directly editing the numeric field: clicking the text field corresponding to the data to be edited displays a pop-up window where the desired data can be entered.

Climate management

As long as the control window of the thermostat is open, no commands are actually sent to the thermostat; at any time you can then close the window by clicking "CANCEL", without saving the changes made: in this case you are asked to confirm, which allows you to permanently close the window or save the changes before closing.



Conversely, pressing the "SAVE" button, always available in the control window of the thermostat (except when the sub-windows for the area setting or mode selection are open) you can make the changes; By-web sends the appropriate commands to the thermostat and closes the control window.

5.2 Thermostat (art. 02951) and temperature probe (14538, 19538, 20538) control

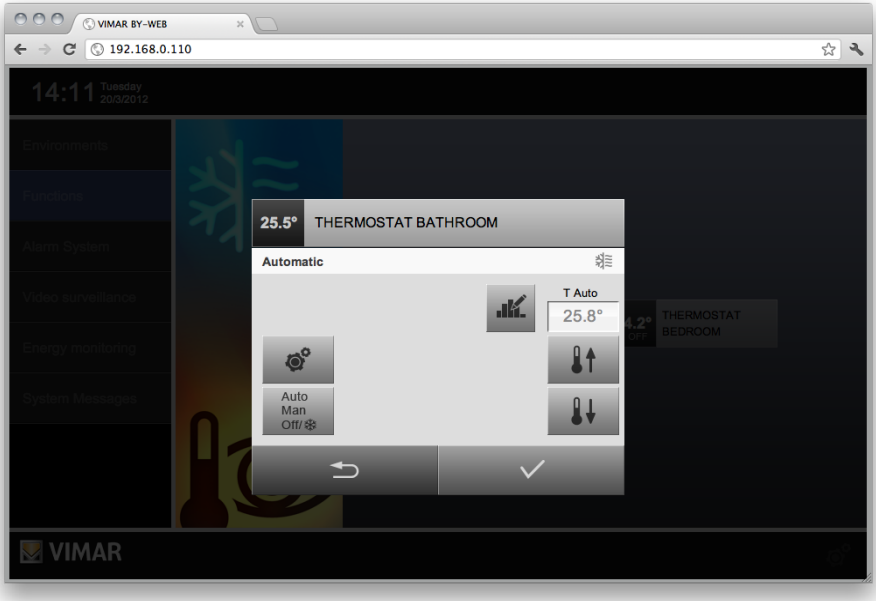
In the pages related to ENVIRONMENT and CLIMATE function you can see the graphics associated with thermostats and temperature probes. From the point of view of the Web Server, the thermostat and the temperature probe can be managed in the same way and provide the same data; therefore, for simplicity, reference will be made to the thermostat. As described for the thermostat is also true for the temperature probe.

Besides the description of the device, the graphics show the data corresponding to measured temperature and operating mode (the data is updated as soon as a variation takes place).

From Web Server software version 2.3, the measured temperature value is shown in yellow when the device output is active, and in grey when the device output is inactive. The colour with which the measured temperature value is displayed thus reveals the device output activation status:

Measured temperature display colour	Device output status
Grey	INACTIVE
Yellow	ACTIVE

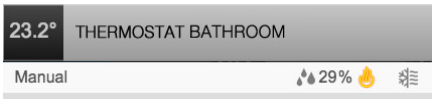
By clicking on the graphics corresponding to the thermostat the control window of the corresponding thermostat corresponding is displayed:



Climate management

The title bar always shows the name of the thermostat and the measured temperature (the value available when the thermostat window is open is displayed; the displayed data is not updated during the opening of the window).

The window immediately below shows more information, depending on the specific installation (the value available when the thermostat window is open is displayed; the displayed data is not updated during the opening of the window).



Below is a table with the above information:

Graphical	Description	Visibility
Manual	Operating mode of the thermostat	Always
11.8°	Temperature measured by the external probe	Optional, depends on the configuration of the thermostat in the By-me system
29%	Humidity	Optional, depends on the configuration of the thermostat in the By-me system
	This icon shows the seasonal mode (icon type) and the activation status of the corresponding main actuator (icon color). **Seasonal mode.** • heating: • conditioning: **Stato attuatore:** • when the seasonal mode icon is grey, the main actuator associated to it is inactive (OFF): • when the seasonal mode icon is yellow, the main actuator associated to it is active (ON):	Only the modes provided by the heating system and corresponding configuration of the By-me system are visible.
	Auxiliary mode: when the seasonal mode icon is yellow and there is an asterisk, the auxiliary output and the main actuator are both active (ON).	Optional, it depends on the heating system type and corresponding configuration of the By-me system.

Climate management

Depending on the current operating mode and system type, the control window of the thermostat provides the following buttons:

Auto
Man
Off/ ❄

MODE: allows you to change the working mode of the thermostat.
Pressing this button displays a list of possible modes to set the thermostat; the list depends on the current mode. Selecting an item from this list updates the control window of the thermostat to allow adjustment of the parameters specified in the new mode.

The complete list of operating modes is as follows:

AUTO	**Automatic**
	**Manual**
OFF	**Off**
	**Nightly**
	**Absence**
	**Protection:** In HEATING seasonal mode
	**Protection:** In CONDITIONING seasonal mode

NOTE: The thermostat also includes the "Timed manual" mode, which is not toggled directly from the operation modes menu, as described below.

In "AUTO" seasonal mode ("neutral zone" management) the operating modes of the thermostat are: OFF, Manual.

LOCAL SETTINGS: allows you to change the season of the thermostat (heating/ conditioning/ Auto) and the unit of measurement.

NOTE: The unit of measurement cannot be changed in the current version of By-web.

The available thermostat seasonal settings depend on the type of system. The following configurations are possible: Only heating, only conditioning, Heating/conditioning, Heating/ conditioning/Auto.

INCREASE SETPOINT: when required, allows to increase the setpoint temperature for the current mode by a tenth of a degree.

NOTE: If the thermostat is in AUTO mode, pressing this button changes the mode to "TIMED MANUAL".

DECREASE SETPOINT: when required, allows to decrease the setpoint temperature for the current mode by a tenth of a degree.

NOTE: If the thermostat is in AUTO mode, pressing this button changes the mode to "TIMED MANUAL".

Climate management

INCREASE TIME: when required (timed mode), it increases the timing by an hour with every click.

DECREASE TIME: when required (timed mode), it decreases the timing by an hour with every click.

MANAGE PROGRAM: when the thermostat is in AUTO mode, allows you to access the weekly program management window of the climate zone which the thermostat is part of.
For more details, see the next section of this chapter.

In the case of thermostats with fan-coil management, are also available the following buttons:

INCREASE FANS SPEED: increases the speed of the fans.
Possible settings:

- Three-speed actuator: SPEED 1, SPEED 2, SPEED 3, AUTO.
- Proportional actuator: 10% increases.

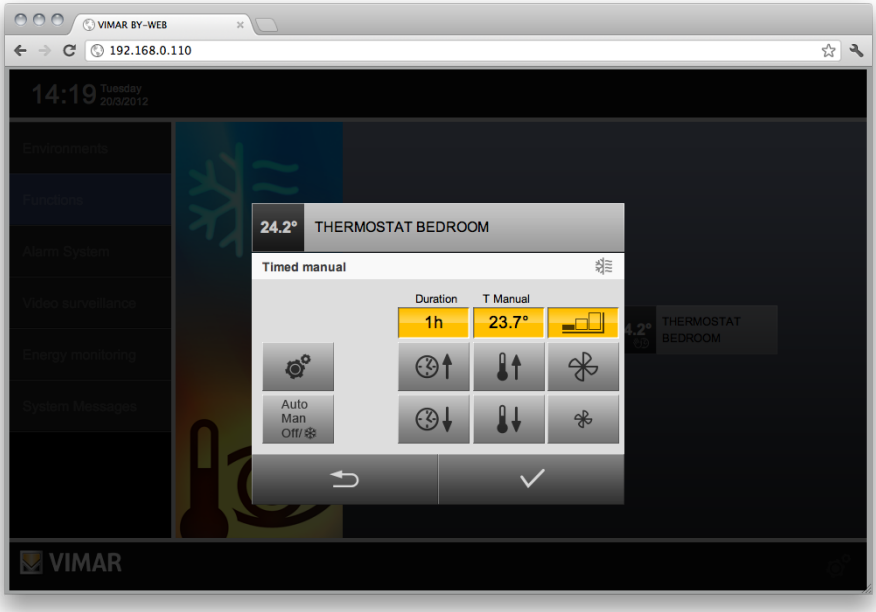
DECREASE FANS SPEED: decreases the speed of the fans.
Possible settings:

- Three-speed actuator: SPEED 1, SPEED 2, SPEED 3, AUTO.
- Proportional actuator: 10% decreases.

Climate management

The figure below shows an example of a thermostat management window of with fancoil management (3 speeds), in "TIMED MANUAL" mode (which requires all user adjustments: setpoint, timing and speed of the fans).

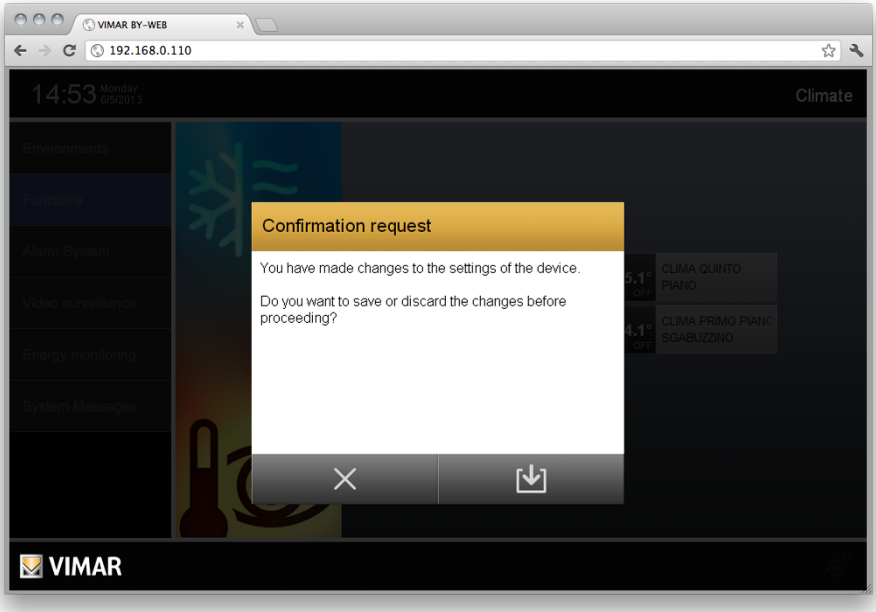
IMPORTANT: The "TIMED MANUAL" mode can be set ONLY starting from the "AUTOMATIC" mode, changing the temperature setpoint.



From the temperature and time set point settings (for the operating modes that require it, and, in any case, other than in the "AUTOMATIC" mode), you can speed up data entry by directly editing the numeric field: clicking the text field corresponding to the data to be edited displays a pop-up window where the desired data can be entered.

Climate management

As long as the control window of the thermostat is open, no commands are actually sent to the thermostat; at any time you can then close the window by clicking "CANCEL", without saving the changes made: in this case you are asked to confirm, which allows you to permanently close the window or save the changes before closing.



Conversely, pressing the "SAVE" button, always available in the control window of the thermostat (except when the sub-windows for the area setting or mode selection are open) you can make the changes; By-web sends the appropriate commands to the thermostat and closes the control window.

For setting the weekly time programming of the "automatic" mode, refer to the chapter "5.4. Weekly programming."

5.3 Climate controller for heating systems (art. 01465)

5.3.1 Introduction

The device adjusts the supply water temperature to a fixed value (FIXED operating mode) or based on the external ambient temperature (MODULATING mode).
It is provided with an input for three probes:

- Supply water temperature probe
- External temperature probe
- Optional (or auxiliary) temperature probe

A By-me system can include many climate controllers.

A climate controller, unlike a thermostat and a temperature sensor, is a device acting on the overall operation of the heating system. The modification of the operating parameters of the climate controller must then be performed by qualified personnel.

For the supervision of the device via the Web Server (art. 01945-01946), new levels of permissions were introduced to allow editing of the parameters of the climate controller independently of other features of the Web Server (see chapter "7.4 Permissions" of the installer manual). If a user does not have sufficient permissions to manage the climate controller, a window for entering the credentials of a user with the required permissions to access this feature will appear.

IMPORTANT: The operating mode of the climate controller (fixed, modulating, off) cannot be edited from the Web Server: it is a characteristic of operation of the climate controller that depends on the heating system, and which must be set by the installer during the configuration of the By-me system. The controller provides an operating mode for each of the seasonal operating modes (Heating, Cooling) and can take the following values: fixed, modulating, off.

5.3.2 FIXED operating mode

When the climate controller is in FIXED operating mode, it adjusts the temperature of the supply water to the set value (for the current operating mode).

When the temperature controller is in FIXED mode, all setpoints in the graphic objects that represent it refer to the supply water temperature.

The temperature range can be set (for all setpoints settable) between 10 °C and 100 °C.

5.3.3 MODULATING operating mode

When the climate controller is in MODULATING operating mode, it adjusts the temperature of the supply water based on the temperature measured outside and the desired one in the house/building.

When the temperature controller is in FIXED mode, all setpoints in the graphic objects that represent it refer to the desired temperature in the house/building.

The temperature range can be set (for all setpoints settable) between 4 °C and 40 °C.

5.3.4 The graphical user interface of the Web Server for managing the climate controller

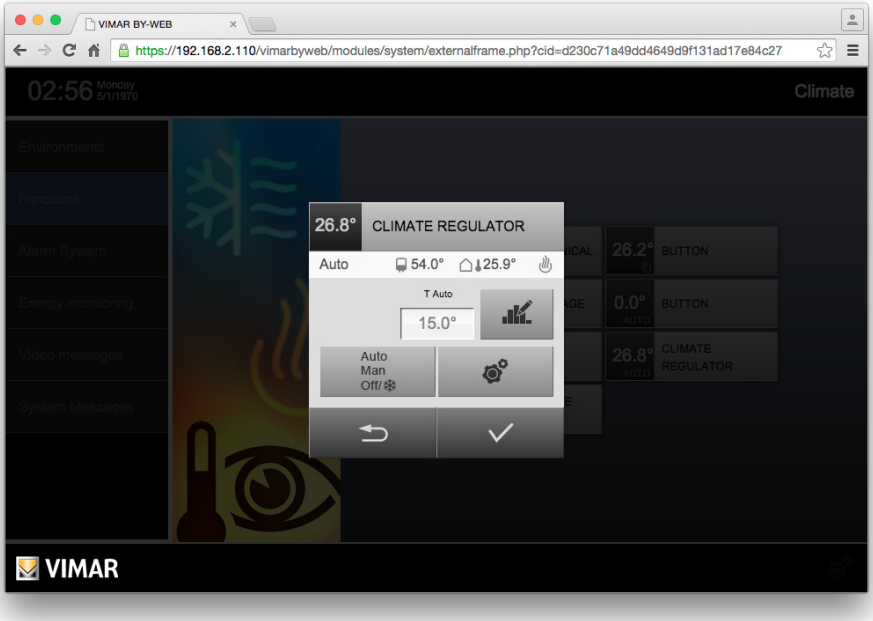
On the pages related to the ENVIRONMENTS and CLIMATE function you can see the graphic objects associated with the climate controllers in the By-me system.

Besides the description of the device, the graphic object shows the measured temperature (of the water supply) and the operating mode (the display of such data is updated as soon as there is a variation).

From Web Server software version 2.3, the measured temperature value is shown in yellow when the device output is active, and in grey when the device output is inactive. The colour with which the measured temperature value is displayed thus reveals the device output activation status:

Measured temperature display colour	Device output status
Grey	INACTIVE
Yellow	ACTIVE

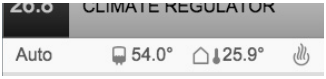
Clicking on the graphical object of the thermostat opens the control window of the climate corresponding controller:



The title bar always shows the name of the climate controller, as well as the measured temperature (the value available when the climate controller window appears is displayed; the data displayed is not updated while the window is open).

Climate management

The section of the window immediately below provides further information, whose presence depends on the specific installation (available values are displayed at the opening of the climate controller window, the data displayed is not updated while the window is open).



Below is a table with the information mentioned above:

Graphical	Description	Visibility
AUTO	Operating mode of the climate controller.	Always visible if the operating mode is "fixed" or "modulating" in the current season setting. **Note**: "Off" is displayed even if the operating mode is "Off" in the current seasonal mode.
54.0°	Temperature measured by the optional (or auxiliary) temperature probe.	The optional one depends on the configuration of the climate controller in the By-me system. In case of failure of the probe, the text "Error" is displayed.
24.0°	Temperature measured by the external temperature probe.	The optional one depends on the configuration of the climate controller in the By-me system. In case of failure of the probe, the text "Error" is displayed.
	Controller lock.	
	This icon indicates the seasonal mode of the corresponding main actuator. **Seasonal mode:** • heating: / • conditioning: / **Actuator status:** • When the seasonal mode icon is grey, the actuator is inactive (OFF): / • When the seasonal mode icon is yellow, the actuator is active (ON): /	Only the modes provided by the heating system and relative configuration of the By-me system are visible.

Climate management

Depending on the current operating mode and type of system, the control window of the climate controller provides the following buttons:

MODE: allows you to change the operating mode of the climate controller.
This button displays a list of possible modes to set the climate controller; the list depends on the current mode. Selecting an item from this list updates the control window of the climate controller to allow adjustment of the parameters specified in the new mode.
Access to the climate controller operating mode configuration is affected by the permissions of the user running the operation. (refer to chapter “7.4 Permissions” of the installer manual).

Below is the complete list of operating modes:

AUTO	**Automatic**
	**Confort**
	**Economy**
OFF	**Off**

LOCAL SETTINGS: allows you to change the season of the climate controller (heating or cooling) and the unit of measurement.

NOTE: the unit of measurement cannot be changed in the current version of By-web.
The available seasonal settings of the climate controller depend on the type of system.
According to the type of heating system, the following configurations are possible: heating only, conditioning only, heating/conditioning.

INCREASE SETPOINT: when required by the operating mode, allows to increase the setpoint temperature for the current mode of a tenth of a degree*.

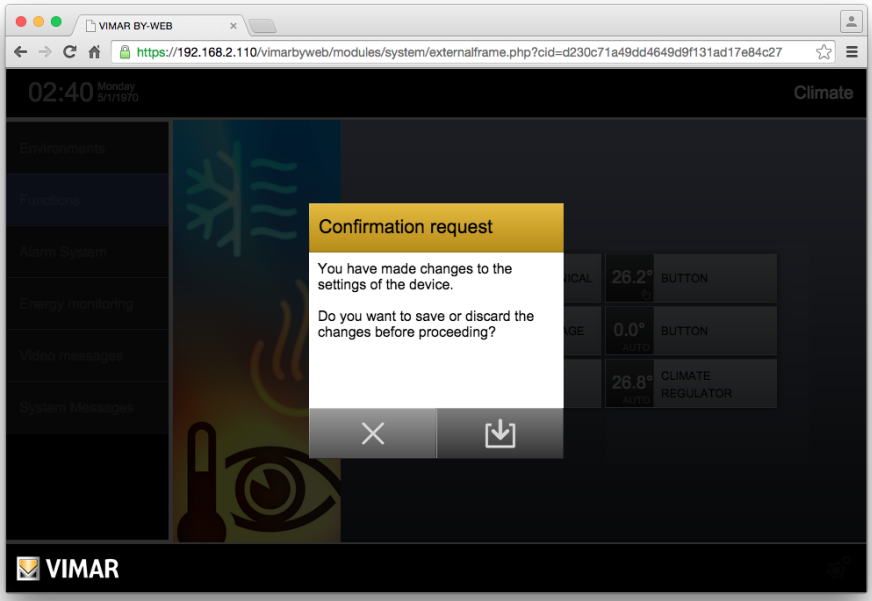
DECREASE SETPOINT: when required by the operating mode, allows to decrease the setpoint temperature for the current mode of a tenth of a degree*.

MANAGE PROGRAM: when the climate controller is in AUTO mode, allows you to access the weekly program management window.
For more details , see chapter "5.4. Weekly programming".
This setting reflects that of the thermostat: the only difference regards the temperature range foreseen for the temperature levels.

* In the temperature setpoint settings you can speed up data entry by directly editing the numeric field: clicking the text field corresponding to the data to be edited displays a popup window where the desired data can be entered.

Climate management

As long as the control window of the climate controller is open, no commands are actually sent to the climate controller; at any time you can then close the window by clicking "CANCEL", without saving the changes made: in this case you are asked to confirm, which allows you to permanently close the window or save the changes before closing.

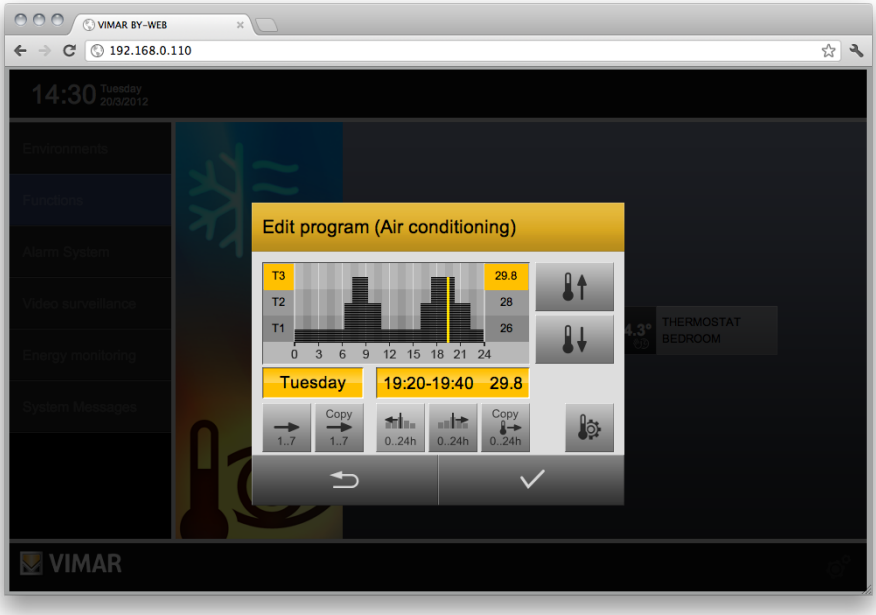


Conversely, pressing the "SAVE" button, always available in the control window of the climate controller (except when the sub-windows for the area setting or mode selection are open) you can make the changes; By-web sends the appropriate commands to the climate controller and closes the control window.

For setting the weekly time programming of the "automatic" mode refer to the chapter "5.4. Weekly programming".

5.4 Weekly programming

When the thermostat or climate controller are in "AUTO" mode, you can set the weekly program on the corresponding climate zone with the appropriate button; the control window of the weekly schedule opens, as follows:



When the window opens, a reading schedule for the current day is made, during which you cannot do anything; after a few seconds (depending on how many intervals the current schedule requires) the daily profile is displayed.
The window includes the following buttons:

NEXT DAY: to access the day following the one currently displayed. The transition to the next day may take a few seconds of waiting, during which the programming is loaded by the By-me control unit.

DUPLICATE DAILY SCHEDULE: allows you to copy the schedule for the day currently displayed to another day, selectable from a dropdown list .

PREVIOUS TIME INTERVAL: moves the cursor back in time, within 24 hours, of 20 minutes each time.

NEXT TIME INTERVAL: moves the cursor forward in time, within 24 hours, of 20 minutes each time.

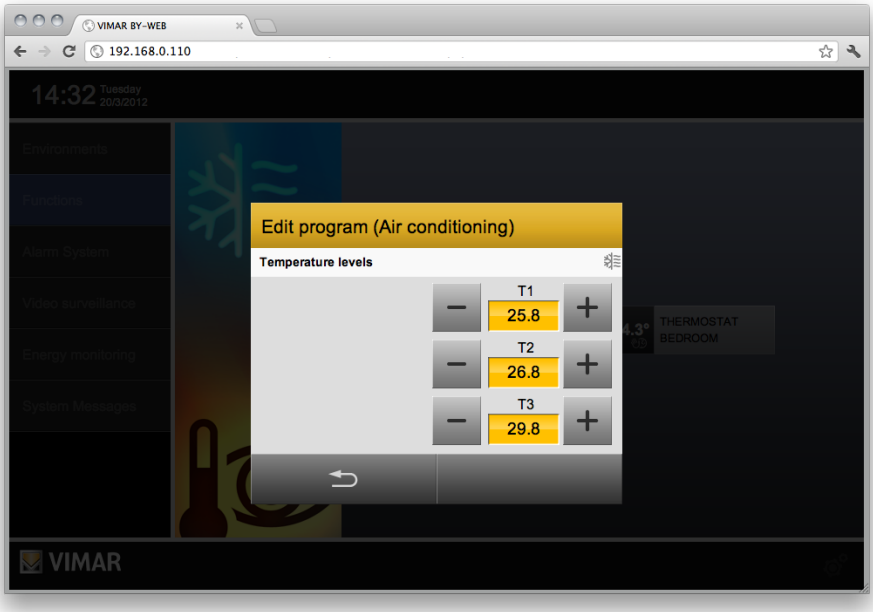
DUPLICATE CURRENT INTERVAL TEMPERATURE: allows you to replicate the temperature of the current time interval on 20 minutes later.

Climate management

INCREASE TEMPERATURE: increases the temperature level (T1 ➡ T2 ➡ T3) in the time interval currently selected.

REDUCE TEMPERATURE: reduces the temperature level (T3 ➡ T2 ➡ T1) in the time interval currently selected.

EDIT TEMPERATURE LEVELS: allows you to open the window for setting the temperature levels T1, T2 and T3 for the current mode (heating or cooling) - See the following figure.



Again, the changes to the weekly schedule are stored in the By-me control unit when saving only, made available by the appropriate button always available (except during the opening of the windows for choosing the day or setting the temperature levels).

Closing the window with the "CANCEL" button, prompts to confirm if changes were made to the program in relation to the central configuration; press the "CANCEL" button again to exit without saving, or press "SAVE" to save the configuration in the By-me control unit.

5.5 Management of Mitsubishi air conditioners

5.5.1 Introduction

The Web Server 01945-01946 is able to manage the main functions of the Mitsubishi internal air conditioning units, provided that for each internal air conditioning unit a Intesis gateway ME-AC-KNX-1-V2 is used and the correct installation and configuration is carried out, as described in the Web Server 01945-01946 Installer manual.

IMPORTANT:

The Intesis ME-AC-KNX-1-V2 gateway with version 0.8 of the ETS software application was introduced in version 2.2 of the web server 01945/01946 software

The Intesis ME-AC-KNX-1-V2 gateway with version 1.0 of the ETS software application was introduced in version 2.9 of the web server 01945/01946 software.

For the configuration procedure, use version 2.14.1 or higher of EasyTool Professional.

5.5.2 Web Server graphical interface for the Mitsubishi air conditioners management

In the ENVIRONMENTS and CLIMATE function pages it is possible to see the graphic objects associated to the internal Mitsubishi air-conditioning units which can assume the following representations, according to the configuration and the specific operating status.

Internal unit set to OFF

Internal unit set to ON, in case the environment temperature data is not available. In the lower right part of the icon the operating mode is shown (the possible operating modes will be described below).

Internal unit set to ON, in case the environment temperature data is available. In the lower right part of the icon the operating mode is shown (the possible operating modes will be described below).

Clicking on the graphic object of the internal air conditioning unit, the relative control window is displayed, after a web server procedure for data synchronization with the device (this procedure may take a few seconds).

The appearance of the control window, whatever the Mitsubishi indoor unit functions, depends on the software version of the interfacing device between the home automation system bus and the Mitsubishi indoor unit, as described in the following two sub-chapters.

5.5.2.1 Control window of a Mitsubishi indoor unit (managed by Intesis gateway with version 0.8 of the application programme)

In the white horizontal bar, under the bar with the description, the following information is shown:

- Operating mode, through descriptive text on the left side and icon on the right side.
  The possible operating modes are the following:

Description	Symbol	Notes
Auto	AUTO	
Cooling		
Fan		Some air conditioning models are not provided with this operating mode.
Dry		
Heating		

Climate management

- Error conditions signalling. The management of the Mitsubishi air conditioning units, through the Intesis gateway includes the signalling of the two following types of errors.

Description	Symbol	Notes
Error in the air conditioning unit or communication error between the internal air conditioning unit and the Intesis gateway .		In this condition the web server cannot communicate with the internal air conditioning unit. The air conditioning control window Shows a warning message and the red triangle icon. In this condition it is not possible to send a command to the internal unit through the web server and the web server does not receive any information on the operating status of the internal unit.
Error code of the internal air conditioning unit.	ERROR XXXX	It is a numerical error code that the Mitsubishi internal unit sends to signal a specific operating problem. Refer to the air conditioning documentation for the meaning of the specific numerical error code. **Important**: In this specific condition, the Web Server could still be able to communicate with the internal air conditioning unit and therefore shows the control window, the internal unit may not work properly, depending on the specific error in progress.

Climate management

Below the white horizontal bar there is the main area of the control window, which contains the control buttons and the status display areas related to the current operation of the air conditioning unit.

Important: the number and type of controls available depend on the specific air conditioning model and system configuration.

The following table shows all the possible elements present in the main area of the control window of the internal air conditioning unit.

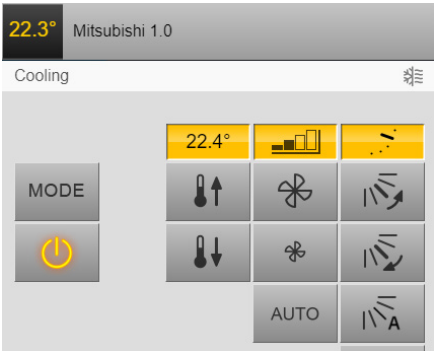
Description	Symbol	Notes
Command and ON/OFF status of the internal air conditioning unit.		OFF status of the internal unit. Pressing the button sets the internal unit to ON. **Note**: when the internal unit is in the OFF status, the only command allowed is the ON command and the internal unit control window displays only the ON/OFF button.
		ON internal unit status. Pressing the button sets the internal unit to OFF.
Operating mode setting button.		Pressing the button accesses the window for setting the operating mode of the internal unit, as described in the following chapter **5.5.3 Setting the operating mode of the Mitsubishi air conditioners**.
Current temperature setpoint setting value for the current operating mode.		
Buttons for increasing and decreasing the setpoint temperature.		At each click on the Increment/Decrement buttons, the relative increase or decrease command of 1° C is sent to the internal unit. The updated value assumed by the internal unit, is displayed in the setpoint value display field. Once the maximum value provided by the specific internal unit model has been reached, further setpoint increase commands will be ignored by the internal unit. Similarly, once the minimum value is reached, further decrement commands will be ignored by the internal unit.
Current fancoil speed value.		The following values are possible: Auto, Low, Md1, Md2, High. These values are shown by graphic symbols. **Note**: some Mitsubishi internal unit models may have a lower number of fancoil speeds (or even no speed).

Climate management

Buttons for increasing and decreasing the fancoil speed (in manual speed settings).		At each click on the Increment/Decrement buttons, the relative command to increase or decrease a fancoil speed unit and to switch to the Auto mode as required by the specific internal unit model, is sent to the internal unit. The updated value, assumed by the internal unit, is displayed in the fancoil speed value display field.
Current value of the slats position.		The following values are possible: Auto, Hor, Pos2, Pos3, Pos4, Ver, Swing. These values are shown by graphic symbols. **Note**: some Mitsubishi internal unit models may have a smaller number of slat positions (or even no one).
Buttons for setting the vane position.		At each click on the Up/Down buttons, the relative command to move the vane position of the unit up or down and to switch to the Auto and Swing modes as required by the specific indoor unit model, is sent to the indoor unit. The updated value assumed by the internal unit is shown in the slat position value display field.

To exit the control window of the air conditioning internal unit, press the  button.

5.5.2.2 Control window of a Mitsubishi indoor unit (managed by Intesis gateway with version 1.0 of the application programme)



In the white horizontal bar, under the bar with the description, the following information is shown:

- Operating mode, through descriptive text on the left side and icon on the right side.
  The possible operating modes are the following:

Description	Symbol	Notes
Automatic	AUTO	
Air Conditioning		
Fan		Some air conditioner models do not have this operating mode
Dehumidification		
Heating		

Climate management

- Error condition signalling. The management of Mitsubishi air conditioning units, through the Intesis gateway, includes the signalling of the two following types of errors.

Description	Symbol	Notes
Error in the air conditioning unit or communication error between the indoor air conditioning unit and the Intesis gateway.		In this condition the web server cannot communicate with the indoor air conditioning unit. The air conditioning control window shows a warning message and the red triangle icon. In this condition it is not possible to send a command to the indoor unit through the web server and the web server does not receive any information on the operating status of the indoor unit.
Error code of the indoor air conditioning unit.	ERROR XXXX	It is a numerical error code that the Mitsubishi indoor unit sends to signal a specific operating problem. Refer to the air conditioning documentation and the Intesis gateway for the meaning of the specific numerical error code. **Important:** In this specific condition, the Web Server could still be able to communicate with the indoor air conditioning unit and therefore shows the control window, the indoor unit may not work properly, depending on the specific error in progress.

Below the white horizontal bar there is the main area of the control window, which contains the control buttons and the status display areas related to the current operation of the air conditioning unit.

Important: the number and type of controls available depend on the specific air conditioning model and system configuration.

Climate management

The following table shows all the possible elements present in the main area of the indoor air conditioning unit control window.

Description	Symbol	Notes
Command and ON/OFF status of the indoor air conditioning unit.		OFF status of the indoor unit. Press the button to turn the indoor unit ON. Nota: when the indoor unit is in the OFF status, the only command allowed is the ON command and the indoor unit control window displays only the ON/OFF button
		Indoor unit status ON. Press the button to turn the indoor unit OFF.
Operating mode setting button.		Press the button to access the window for setting the operating mode of the indoor unit, as described in the following chapter **5.5.3 Setting the operating mode of Mitsubishi air conditioners.**
Current temperature setpoint value for the current operating mode.		
Buttons for increasing and decreasing the temperature setpoint.		At each click on the Increase/Decrease buttons, the relative increase or decrease command of 1° C is sent to the indoor unit. The updated value assumed by the indoor unit, is displayed in the setpoint value display field. Once the maximum value of the specific indoor unit model has been reached, further setpoint increase commands will be ignored by the indoor unit. Similarly, once the minimum value is reached, further decrement commands will be ignored by the indoor unit.
Current fancoil speed value (in the manual speed settings).		The graphic representation of the fancoil speeds is available only when the manual fancoil speed management is enabled (not available in automatic settings mode). The following values are possible: Low, Md1, Md2, High. These values are shown by graphic symbols. Note: some Mitsubishi indoor unit models may have a lower number of fancoil speeds (or even no speed).

Climate management

Buttons for increasing and decreasing the fancoil speed (in manual speed settings).		Each click on the Increase/Decrease button sends the relative increase or decrease command of one fancoil speed unit to the indoor unit. The buttons can only be used if the manual fancoil speed settings mode is enabled (they cannot be used in automatic mode). The updated value, assumed by the indoor unit, is displayed in the fancoil speed value display field.
Command and On/Off status of the Automatic fancoil speed settings mode.		Off status of the Automatic fancoil speed settings mode of the indoor unit. Press the button to enable the Automatic fancoil speed settings mode.
		On status of the Automatic fancoil speed settings mode of the indoor unit. Press the button to disable the Automatic fancoil speed settings mode. Note: when the fancoil speed setting is Automatic, the buttons for manually changing the fancoil speed and viewing the current fancoil speed are disabled.
Current value of the vane position. (in the manual position settings).		The following values are possible: Hor, Pos2, Pos3, Pos4, Ver. These values are shown by graphic symbols only when the manual vane position settings are enabled (so they are not displayed if the automatic settings are enabled, or the swing mode, for the vane position). Note: some Mitsubishi indoor unit models may have a smaller number of vane positions (or even none).
Buttons for setting the vane position.		At each click on the Up/Down buttons, the relative command to move the vane position of the unit up or down, is sent to the indoor unit. The buttons can only be used if the manual vane position settings mode is enabled (they cannot be used in automatic mode or in the vane position swing mode). The updated value assumed by the indoor unit is shown in the vane position value display field.

Climate management

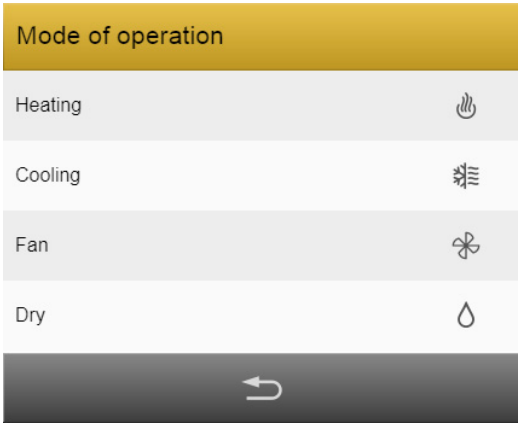
Command and On/Off status of the Automatic vane position settings mode.		Off status of the Automatic vane position settings mode. Press the button to enable the Automatic vane position settings mode.
		On status of the Automatic vane position settings mode. Press the button to disable the Automatic vane position settings mode. Note: when the vane position speed setting is Automatic, the buttons for manually changing the vane position and viewing the current vane position are disabled.
Command and On/Off status of the Swing vane position settings mode.		Off status of the Swing vane position settings mode. Press the button to enable the Swing vane position settings mode.
		On status of the Swing vane position settings mode. Press the button to disable the Swing vane position settings mode. Note: when the vane position speed setting is Swing, the buttons for manually changing the vane position and viewing the current vane position are disabled.

Per uscire dalla finestra di controllo dell'unità interna di climatizzazione, premere il pulsante  .

5.5.3 Air conditioners operation mode setting Mitsubishi

If provided by the configuration, in the control window of the Mitsubishi air conditioning unit there is the button for setting the operating mode (please note that the “MODE" button is only present when the unit is in the ON status).

Pressing the "MODE" button displays the window for selecting the operating mode (which presents the list of all the operating modes provided by the internal unit).



To select a specific operating mode click on the corresponding line: the mode setting window will close to display again the internal unit control window.

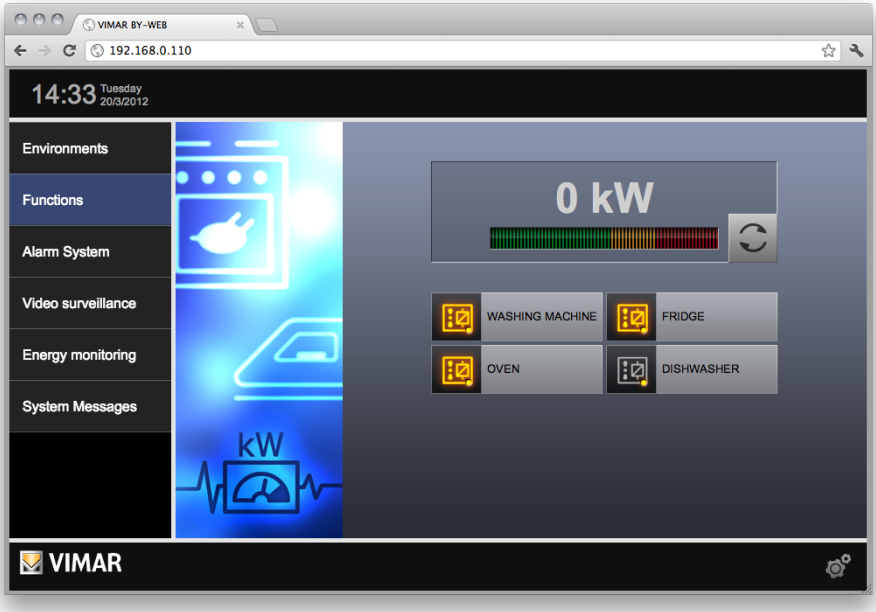
To exit the operation mode setting window without making any changes, press the  button.

6. Load control

6.1 Load control page

The LOAD CONTROL ➧ FUNCTIONS page allows you to monitor the consumption of your electrical system and manage the loads controlled by modules 01855 or 01455.

NOTE: The CONTROL LOADS item in the FUNCTIONS menu is only enabled when the appropriate module 01855 or 01455 is present.



In the upper portion of the page is an indicator of the electrical system consumption in the form of numeric value and bar graph, which changes color according to how much the consumption approaches the maximum limit allowed by your electricity contract.

If it is monitoring consumption on a three-phase line, the load indicator reports the sum of the loads of the three phases.

If the system includes a component which produces electricity, the load indicator shows the algebraic sum of the power consumed and the power produced (assuming that the system has been set up according to the Vimar specifications: the probe (probes for three-phase) of the power consumption meter must be located immediately downstream of the electricity exchange meter, before any derivation).

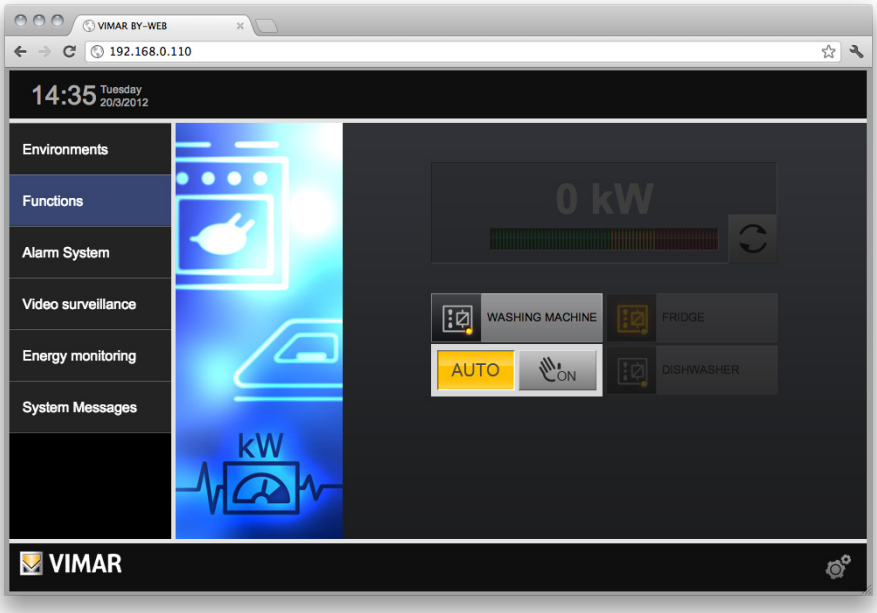
If the system has a component for production of electrical energy and the energy produced is greater than that consumed, the indicator displays a figure with a negative sign, while the indicator bar does not show any information.

Load control

Under normal conditions, the instantaneous consumption data is read every minute from By-web and updated on the screen; if you want to accelerate this reading to monitor sudden changes in the consumption, press the button in the lower right corner of the box containing the value of the consumption. During the accelerated reading on the bus the button is highlighted; press the button again to reset to initial values.

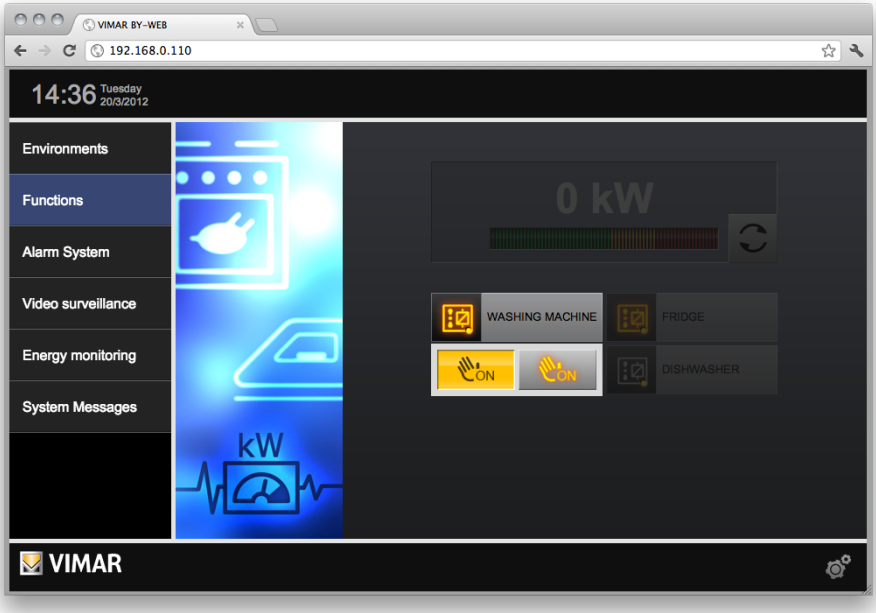
NOTE: the close reading of the consumption data could cause delays or malfunctioning of the home automation system, as By-web sends too much information to the bus.

At the bottom of the page are the loads managed by the provided module; the color of the icon indicates if the load is on or off. Clicking on this icon shows a popup with the details, as exemplified in the following figure:



Load control

This pup-up allows you to see the load management mode and force it to ON with the specific button: the status is updated accordingly as shown below.



Pressing the button again, the load status will return to the condition prior to the forcing.

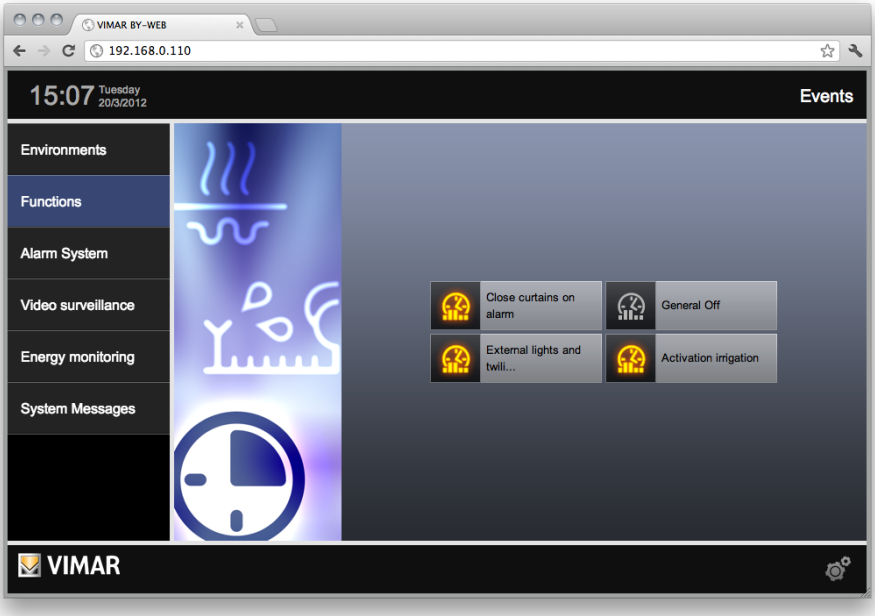
7. Event programs management

7.1 Introduction

VIMAR By-web lets you manage the event programs configured by the installer in the By-me home automation system, and available in the By-me control unit in the specific section of the menu.

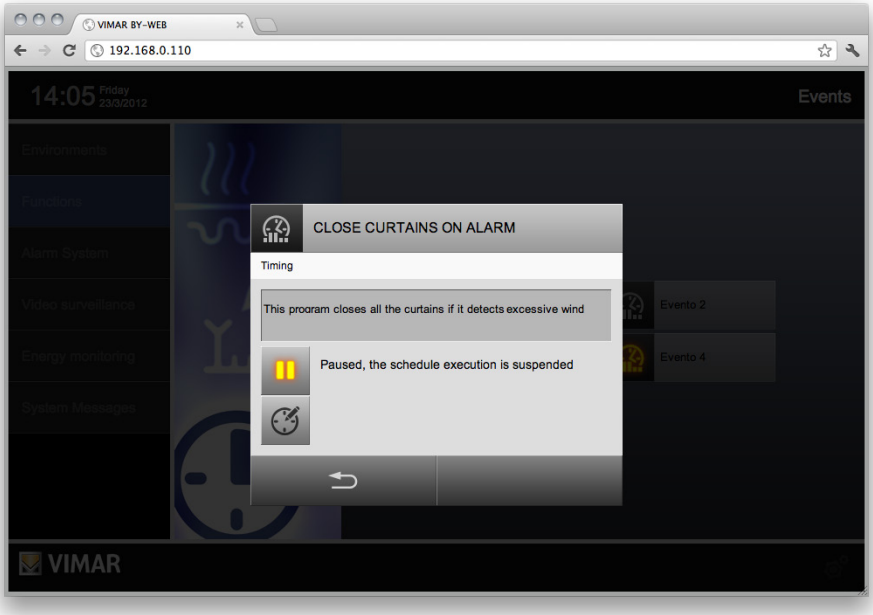
7.2 Setting an event

The EVENTS page in the FUNCTIONS section of By-web contains a list of all events available in the By-me control unit; for each of them, the execution status is shown directly in the page, if active (yellow icon) or paused (gray icon):



Event programs management

Clicking on the icon of an event program opens its configuration window, as shown in the figure below:



Pressing the "PAUSE" button, the program event is pending (the icon switches to gray); the operation is immediately implemented by the system.

7.3 Time programming of an event

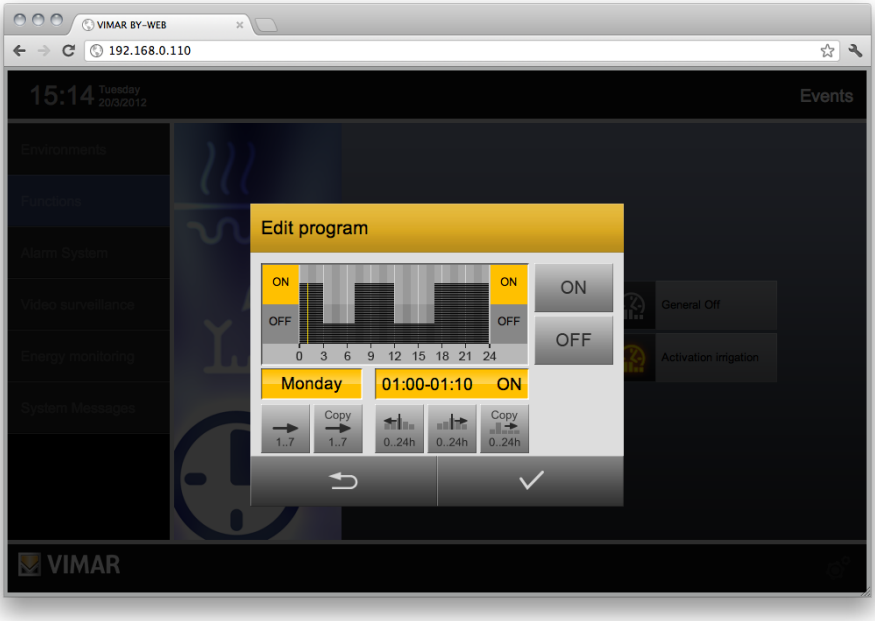
Depending on the configuration made by the installer, an event program may be associated with a time schedule; the schedule can be of the following types:

- **WEEKLY**: allows you to set the time intervals in which the event program is set to ON and OFF for each day of the week
- **PERIODIC**: allows you to set two time intervals throughout the day, in which the event program must be set to ON and OFF
- **CYCLIC**: lets you specify a life cycle in the ON and OFF statuses, repeated by the control unit
- **TIMED**: sets a time duration in the ON status after which the event is switched to OFF

Event programs management

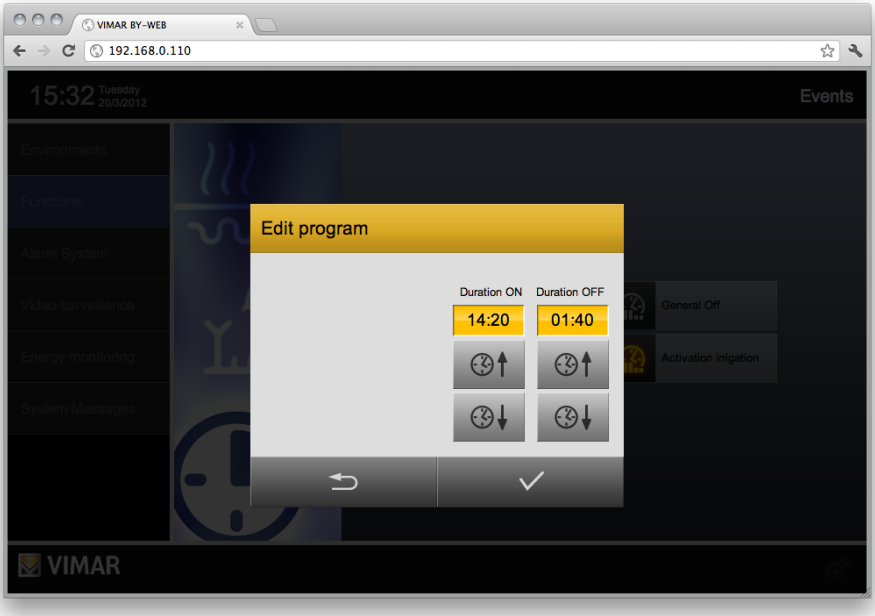
For hourly schedules of the RECURRENT, CYCLIC, and TIMED type, you can speed up data entry by directly editing the numeric field: clicking the text field corresponding to the data to be edited displays a pop-up window where the desired data can be entered.

Depending on the type of time programming (which cannot be changed from By-web), a different window for managing the programming itself is shown: for example, the following figure shows the weekly programming, very similar to that of the thermostat, with the only difference that the intervals are 10 minutes (instead of 20 minutes), and that only the ON and OFF statuses can be set in place of the temperatures T1, T2 and T3.



Event programs management

The figure below shows an example of cyclic programming:

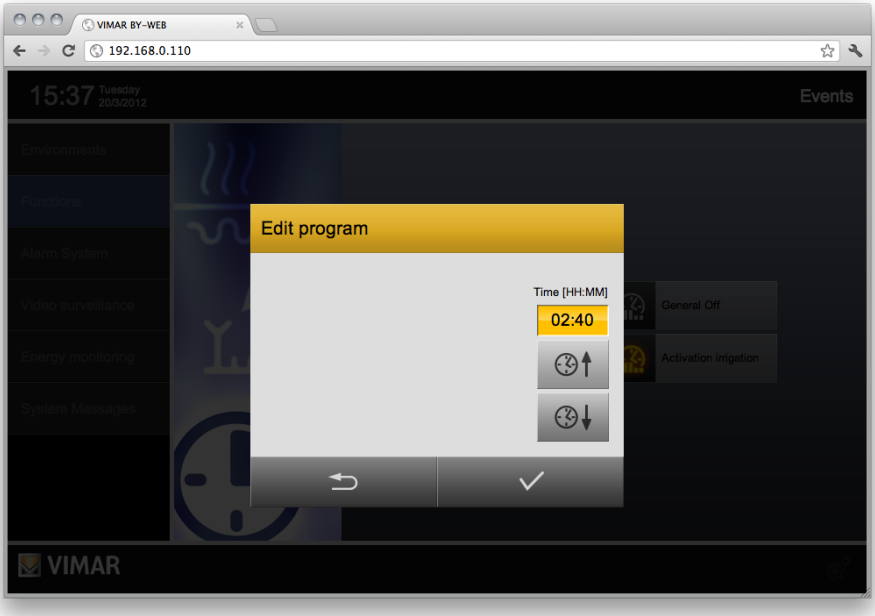


In this case, acting on the buttons sets the ON and OFF time respectively, repeated cyclically.

The periodic programming, unlike the weekly, specifies only two time intervals throughout the day, in which the event program must be brought to ON.

Event programs management

Finally, in the case of the timed programming, the user has the possibility to set the time after which the event is restored to the OFF status:



After editing the program time of an event, please use the SAVE button to make the new configuration permanent; otherwise, use the CANCEL button to close the window without saving.

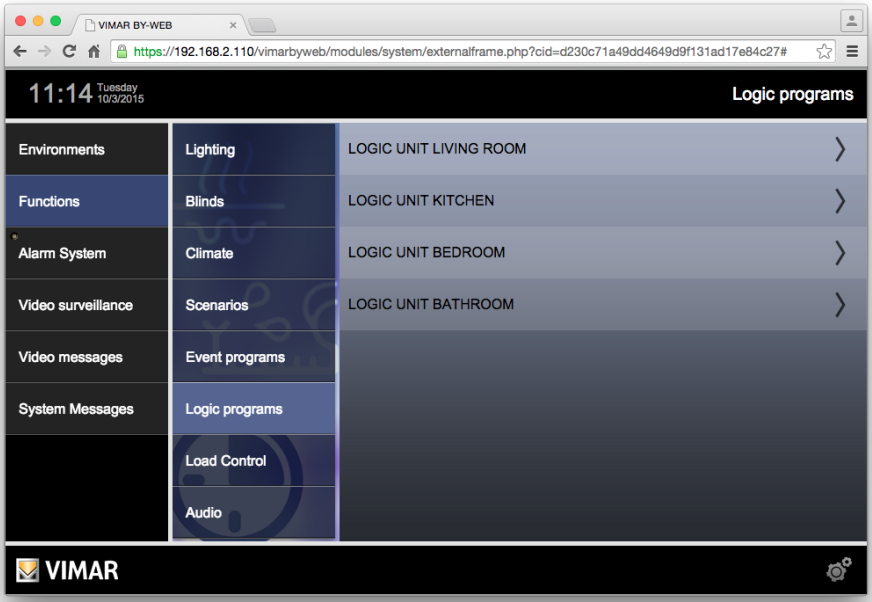
8. Logic programs management

8.1 Introduction

VIMAR By-web lets you manage the logic programs configured by the installer in the By-me home automation system, and available in the By-me control unit in the specific section of the GENERAL SETTINGS menu.

8.2 Setting a logical program

The LOGICAL PROGRAMS page in the By-web FUNCTIONS section provides access to the logical programs management.

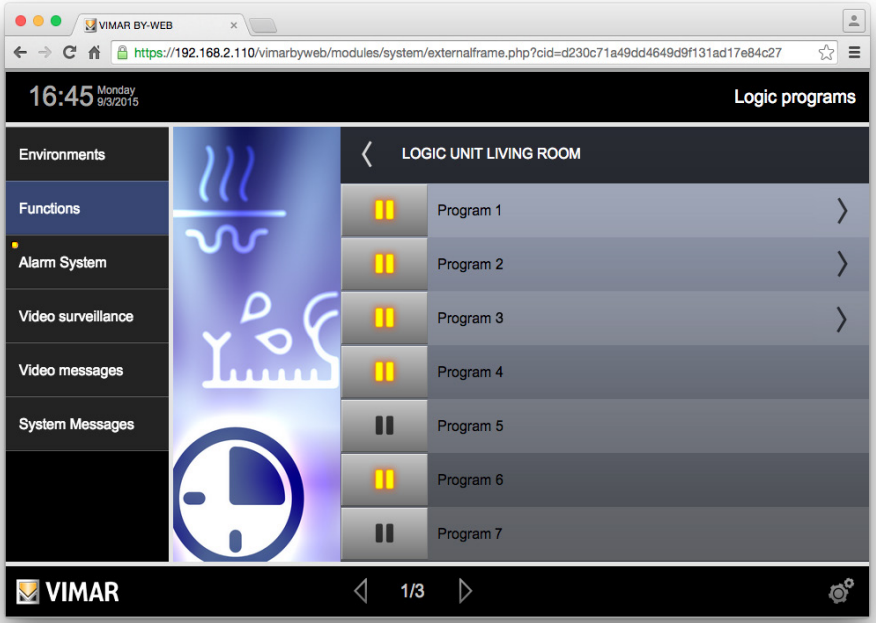


Logic programs management

On the page with the list of logical programs, each program is represented by a line that has:

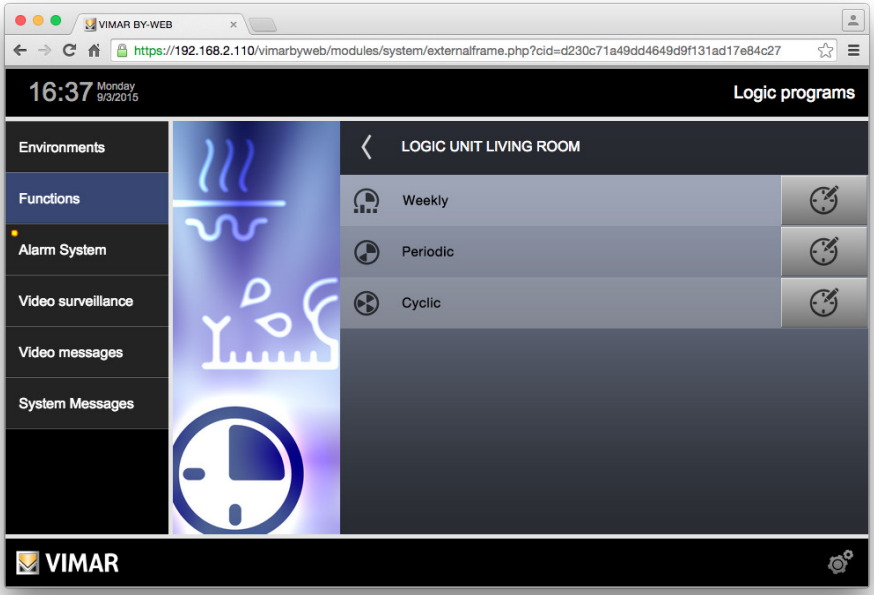
- Icon with the activation status of the logical program: active ("pause" icon in grey) or paused ("pause" icon in yellow). Pressing the icon switches, sequentially, from the active mode of the program (grey "pause" icon) to the non-active mode of the program (yellow "pause" icon).
- Descriptive text of the program (program name).
- ">" icon to access the list of timers created for that specific logical program.

Example of a list of logical programs of a logical unit.



Logic programs management

Example of a list of logical programs of a logical unit.



8.3 Scheduling a logical program

Depending on the configuration made by the installer, a logical program may be associated with one or more time schedules.

The number of schedules associated with a logical program and the corresponding type cannot be changed via the Web Server, but must be created through the configuration tools of the By-me system.

Through the Web Server the setting of the schedules created can still be changed.

To edit a schedule, select the "clock" on the right side of the timing line.

In an entirely identical way to the timings of the events programs, a time schedule can be of the following type:

- **WEEKLY**: allows you to set the time intervals in which the event program is set to ON and OFF for each day of the week.
- **PERIODIC**: allows you to set two time intervals throughout the day, in which the event program must be set to ON and OFF.
- **CYCLIC**: lets you specify a life cycle in the ON and OFF statuses, repeated by the control unit.

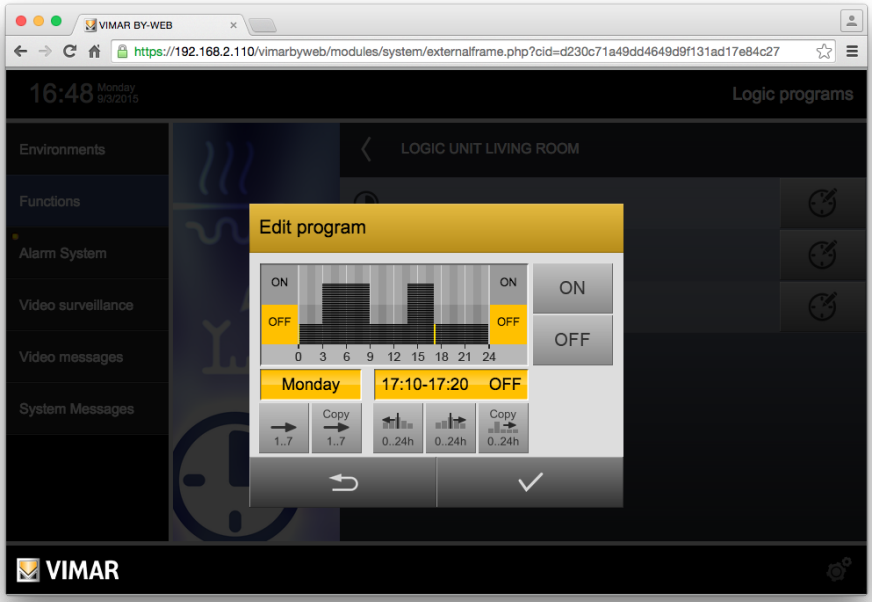
Logic programs management

For hourly schedules of the RECURRENT, CYCLIC type, you can speed up data entry by directly editing the numeric field: clicking the text field corresponding to the data to be edited displays a pop-up window where the desired data can be entered.

Depending on the type of time programming (which cannot be changed from By-web), a different window for managing the programming itself is shown: for example, the following figure shows the weekly programming, very similar to that of the thermostat, with the only difference that the intervals are 10 minutes (instead of 20 minutes), and that only the ON and OFF statuses can be set in place of the temperatures T1, T2 and T3.

The pictures of the setting windows of the different types of logical programs scheduling are displayed afterwards.

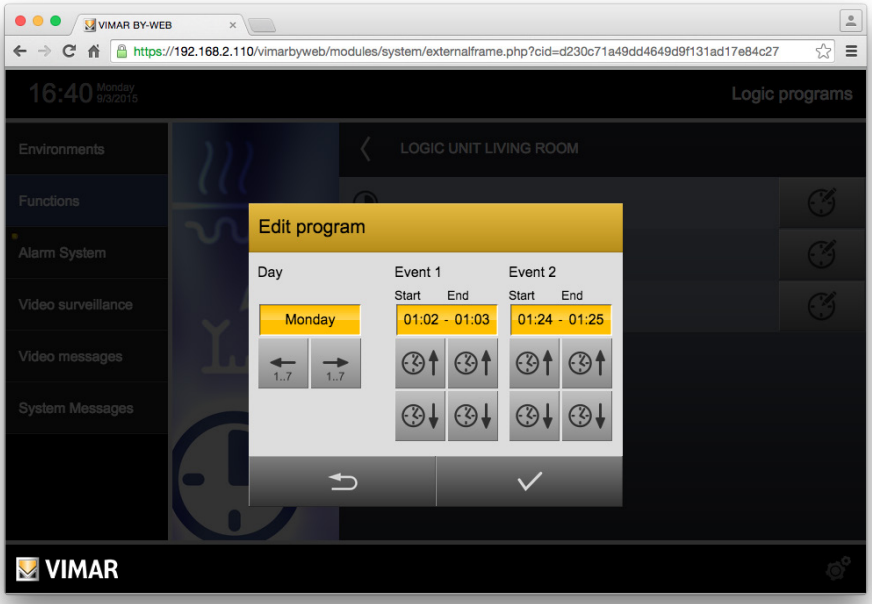
WEEKLY PROGRAM



Logic programs management

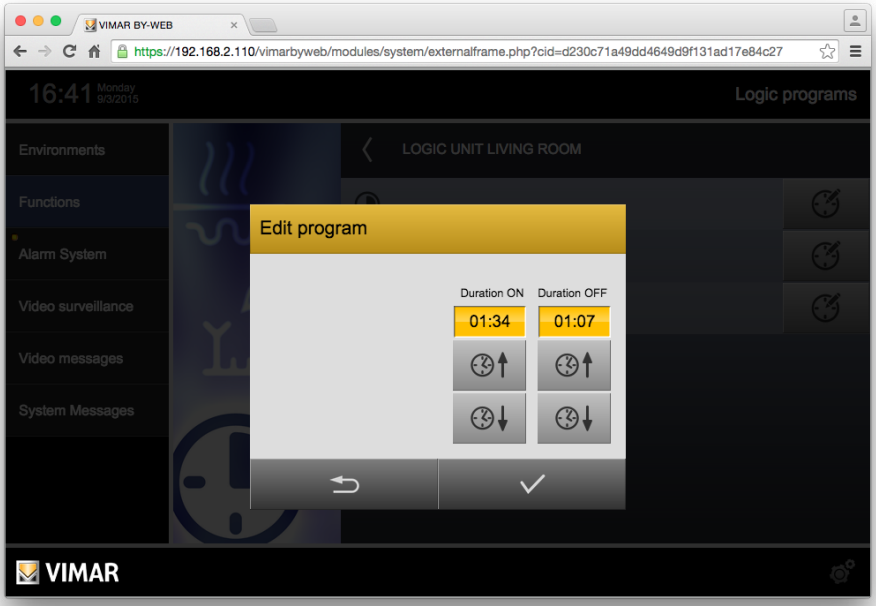
PERIODIC PROGRAM

The periodic programming, unlike the weekly, specifies only two time intervals throughout the day, in which the event program must be brought to ON.



Logic programs management

CYCLIC PROGRAM



In this case, acting on the buttons sets the ON and OFF time respectively, repeated cyclically.

9. Alarm system

9.1 The By-alarm intrusion detection alarm system

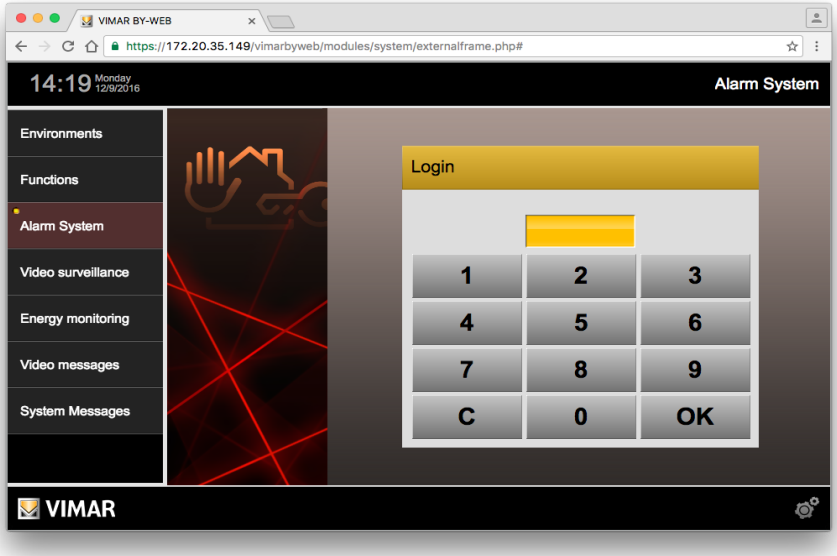
9.1.1 Introduction

Vimar By-web lets you manage the key features of your By-alarm intrusion detection alarm system via web pages, both on the local network and over the Internet, in a similar way to what we saw for home automation management. The By-web Web Server is always accessed via an HTTPS connection that uses the SSL protocol (Secure Socket Layer - Algorithm: sha512; Public key: RSA (2048 bit)) to protect and secure the communication with the Web Server, both locally and remotely, and regardless of the means of access, by computer with a browser, mobile device via browser, or mobile device via Vimar App. Also the communication between the Web Server and the By-alarm control panel is protected with the same type of SSL protocol.

Caution: The By-alarm intrusion detection alarm system can be managed via a Vimar touchscreen and interact with the By-me home automation system only if there is the By-web Web Server (art. 01945-01946) with software version 1.19 or later.
To access the sections of the Web Server dedicated to the By-alarm intrusion detection alarm system you need to enter the user code created on the By-alarm control panel (Art. 01700, Art. 01703) for managing the intrusion detection alarm system: selecting "Intrusion detection alarm system" from the main menu of the Web Server will display a login window for entering the user code. The Web Server will allow the operations envisaged by the specific user code. For the details on the operation of the By-alarm intrusion detection alarm system, please refer to the relevant documentation.

9.1.2 Area Management

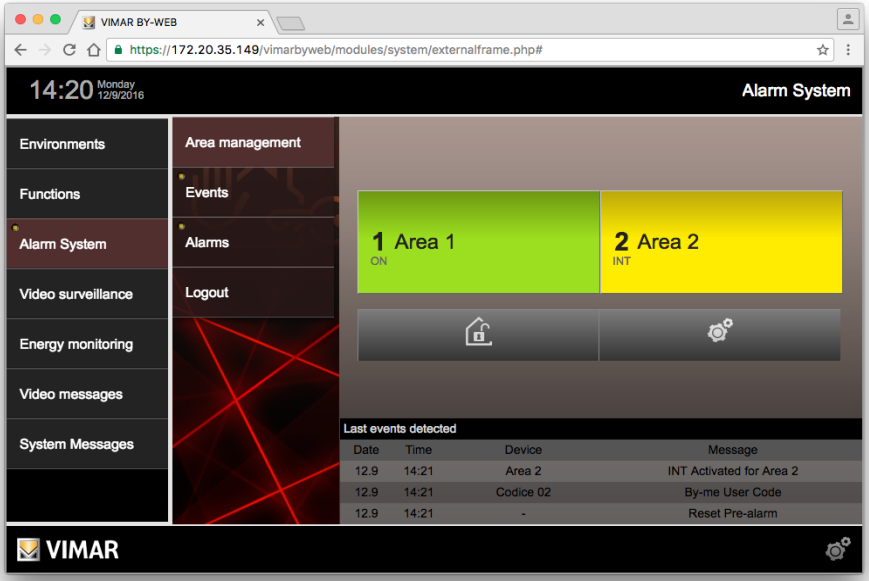
To access By-alarm intrusion detection alarm system management, select "Intrusion detection alarm system" from the main menu; the numeric keypad will be displayed for entering the user code.



Alarm System

If the user code you enter is valid, the Web Server will display the area management page, shown in the following figure.

Important: The Web Server provides the user with access to the By-alarm intrusion detection alarm system taking into account the privileges granted to the user code used to access the intrusion detection alarm system section.



The page comprises the following parts:

- secondary menu for managing the By-alarm system;
- representation of the areas of the By-alarm system;
- push button for disarming/arming all the areas (/);
- push button for excluding areas ( );
- list with the latest detected events.

Alarm System

The areas are represented by a graphical object showing the following information:

- numeric identifier, unique and sequential for the area;
- text description of the area;
- text description of the ON, INT (Internal) or PAR (Partitioned) activation status;
- indication of the status of the area by colour:
  - GREY: area not armed (OFF).
  - GREEN: area armed (ON) and no warning of alarm in progress or alarm memory.
  - YELLOW: area armed in INT mode and no warning of alarm in progress or alarm memory.
  - ORANGE: area armed in PAR mode and no warning of alarm in progress or alarm memory.
  - RED: area in alarm status or alarm memory (red vertical band on the left side of the grey area).

Activating an area

The By-alarm system provides three modes for arming an area:

- ON: arming all the area's zones.
- INT: partial arming of the area's zones.
- PAR: partial arming of the area's zones.

Refer to the documentation of the By-alarm system for more information about managing the partial arming of the intrusion detection alarm system.

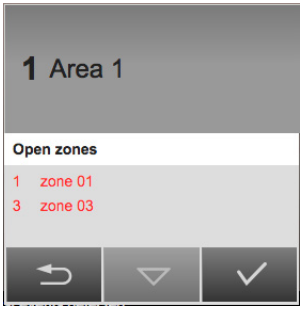
To arm an area, press the graphical object representing it; the following object will be displayed:

Press the push button for the desired arming mode (or, in other words, the partition you are going to activate).

Alarm System

There are two possible situations, depending on the opening status of the zones in the partition (or the entire installation in the case of ON) that you want to activate:

- No open zone in the area: the area arming command is executed and is confirmed by the change in status of the graphical object representing the area.
- There is at least one open zone in the partition that you want to arm: in this case the list of open zones will be displayed, as shown in the following figure.



By pressing the confirmation push button (✓) you can check the following two conditions, according to the configuration of the zone (instantaneous or timed):

- If the zone is configured as Instantaneous: the control panel will not arm the zone.
  To go ahead and arm the open zone, previously close the zone or exclude the zone (IMPORTANT: The operation of excluding a zone limits the features of the By-alarm system).
- If the zone is configured as timed, with an exit time: the arming command is executed and an alarm will be generated only if, after arming, the zone is still open at the end of the exit time.

Refer to the documentation of the By-alarm control panel (Art. 01700, Art. 01703) for more information about arming an area.

Deactivating an area

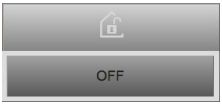
To deactivate an armed area (ON, INT or PAR), press the corresponding graphical object: the following figure will appear.

Press the OFF push button.
The area disarming command is executed and is confirmed by the change in status of the graphical object representing the area.
If the area is in an alarm status, the zone will go into the alarm memory condition.

Alarm System

Activating/Deactivating all the areas

Under the representation of the areas there is a push button for simultaneously activating or deactivating all the areas of the By-alarm system.
The push button has two states, depending on the activation status of the areas of the By-alarm system:

	ARM ALL: This push button is only visible and usable if all the areas are in the OFF state (although there is an alarm memory).  Press the push button for the desired mode (ON, INT, or PAR) to arm all the areas with the desired mode.
	DISARM ALL: This push button is visible and usable when at least one area is armed (ON, INT, or PAR).  On pressing this push button all the areas will be disarmed.

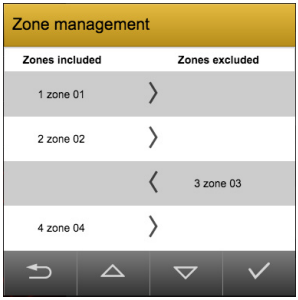
Excluding/Including zones from By-alarm system management

The By-alarm system lets you exclude zones from intrusion detection alarm system management.

Important: This function must be used consciously as it limits the functionality of the intrusion detection alarm system by excluding the use of some of the sensors envisaged when creating the system. Refer to the documentation of the By-alarm system for more information.

Application example: failure of a sensor that needs to be replaced. To avoid false alarms, while waiting for the sensor to be replaced, it is possible to exclude the zone related to the faulty sensor. By doing so the zone is excluded from intrusion detection alarm system management, and it is therefore possible to activate the rest of the installation without the faulty sensor generating any false alarms: the intrusion detection alarm system, in this case, is not however fully functional as it lacks management of the excluded zone.

To exclude zones or include zones previously excluded, access the "Zone Management" window by pressing the push button  .



The window has two columns: one for the "Included Zones" and one for the "Excluded Zones". The inclusion or exclusion of a zone from By-alarm system management is done by moving the zone into the corresponding column.

To move a zone from one column to another, press the > or < push button in the middle of the row corresponding to the desired zone.

At the bottom of the window there are the following push buttons (from the left):

- "Back": closing the window and cancelling the settings.
- "UP": if there is a higher number of zones than can be displayed on one screen, use this push button to scroll through the table of the zones of the By-alarm system.
- "DOWN": if there is a higher number of zones than can be displayed on one screen, use this push button to scroll through the table of the zones of the By-alarm system.
- "Confirm": confirms the inclusion/exclusion.

9.1.3 Events

By selecting "Events" from the intrusion detection alarm system menu, you can see the history of the most recent messages received by the system; the messages are presented from the newest to the oldest, and split into multiple pages for easy reference.

Use the push buttons at the bottom to scroll through the pages.

The arrival of a new event is highlighted by a luminous indicator in the Events push button and in the Intrusion detection alarm system push button of the main menu.

You can export the entire list of events with the push button at the bottom of the page; the list is saved on your PC, after a few seconds needed for loading the data, in tab-separated CSV format, easily imported into any spreadsheet (eg: Microsoft Excel).

9.1.4 Alarms

Similarly to what was seen previously for Events, "Alarms" lets you see a list of only the safety system alarms. Again, you can export the list in CSV format.

The presence of a new alarm is highlighted not only with a visual indicator at the corresponding "Alarms" item of the secondary menu, but also with a visual indicator in the main menu at “Intrusion detection alarm system”.

9.1.5 Logout

The Web Server has three modes for logging out of the By-alarm intrusion detection alarm system management section:

- Manual logout
- Automatic logout
- Timed automatic logout

Manual logout

On pressing the "Logout" push button in the secondary menu of the "Intrusion detection alarm system" section, the Web Server exits the intrusion detection alarm system management section.
To carry out additional operations on the intrusion detection alarm system, it is necessary to re-enter the user code.

Automatic logout

If, after logging in the Intrusion detection alarm system section of the Web Server, you press a push button (other than the "Intrusion detection alarm system" push button) in the main menu of the Web Server, the Web Server will automatically log out of the intrusion detection alarm system management section.
To carry out additional operations on the intrusion detection alarm system, it is necessary to re-enter the user code.

Timed automatic logout

After logging in to the management section of the intrusion detection alarm system, if there has been no user activity for more than 5 minutes, the Web Server will automatically log out from the intrusion detection alarm system management section.
To carry out additional operations on the intrusion detection alarm system, it is necessary to re-enter the user code.

9.1.6 Notification of By-alarm system states

The Web Server enables e-mail notification of the messages that the By-alarm control panel sends on the status of the intrusion detection alarm system.
This feature is available only if the Web Server is connected to the Internet and if the e-mail notification feature has been configured correctly (please refer to the Web Server Installer Manual).

9.1.7 Notification of By-alarm system area states

For each configured area in the By-alarm system, the Web Server lets you select which activation/alarm states must be notified by e-mail.

The states that can be notified by e-mail (and selected individually, at the configuration level) for each area are the following: Off, On, Int, Par, Alarm Memory, Alarm.

This feature is available only if the Web Server is connected to the Internet and if the e-mail notification feature has been configured correctly (please refer to the Web Server Installer Manual).

9.2 The By-me intrusion detection alarm system

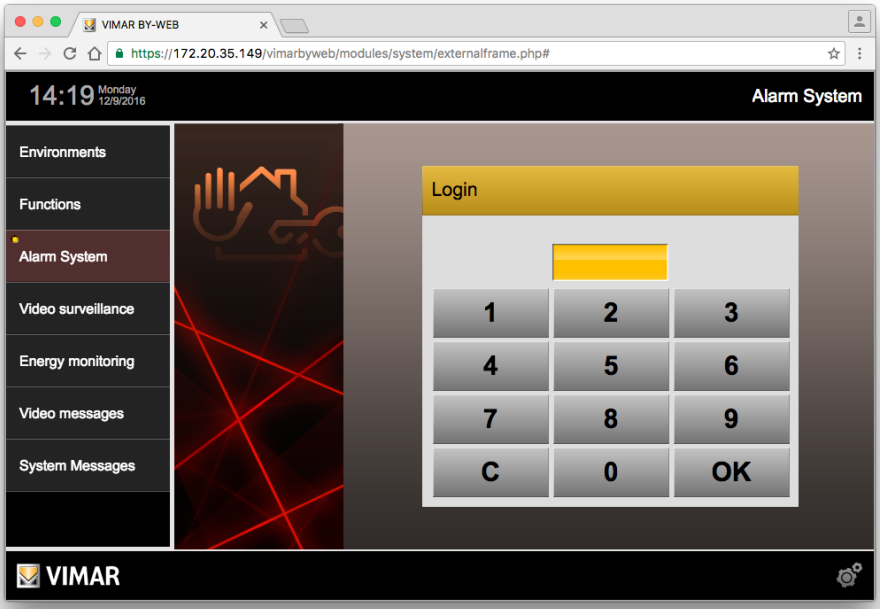
9.2.1 Introduction

Vimar By-web lets you manage all the functionalities of its By-me alarm system through Web pages, either locally or via the internet, in a similar way to what we saw so far for the home automation management.

Warning: The alarm system can be managed via Vimar By-web only if the system is provided with at least one digital keypad or a touch screen.

9.2.2 Managing the partializations

Pressing the Alarm system button from the main menu shows the management page of the partializations into which the security system is divided.
Before you can perform any action on the system, you must enter a valid PIN code. Press the "Login" button to display the keypad to enter the PIN to access the intrusion prevention alarm system.



NOTE: Depending on the configuration performed by the installer, the user you logged on may be enabled to see the status of the partializations before you type a PIN. In this case, you still cannot perform operations until you have entered a valid code.

Alarm System

After entering the code, the keypad is replaced by the ALARM SYSTEM menu, and the partializations on the page are made available; the color of the partializations indicates their current status, according to the following convention:

- GREY: partialization not included
- YELLOW: partialization included
- RED: partialization on alert

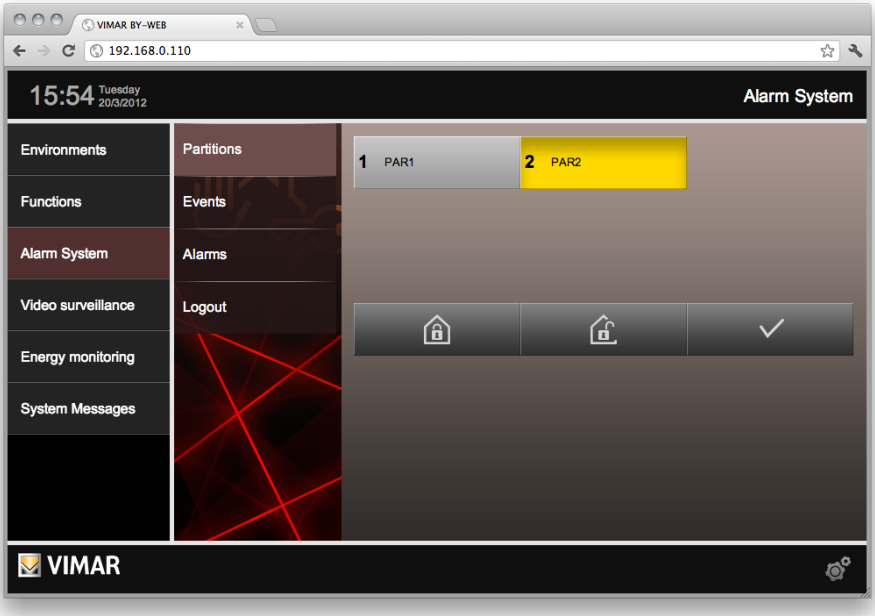
At the bottom of the page are also available the following buttons:

ADD ALL: pressing this button all the partializations not yet submitted are prepared for being added

REMOVE ALL: pressing this button all partializations currently inserted (or on alert) are prepared for being removed

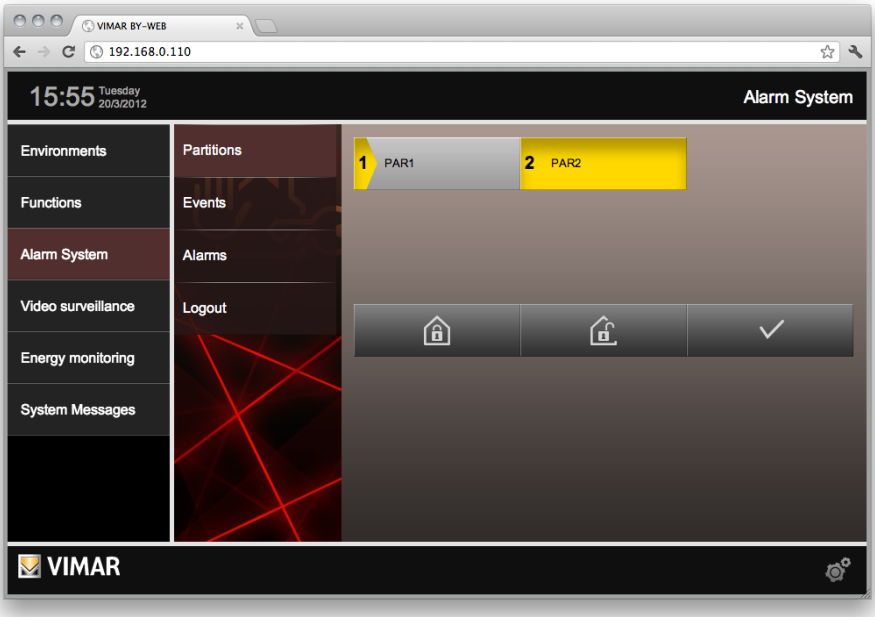
RUN: pressing this button will actually perform operations on partializations

The figure below shows an example of a page with two configured partializations:



Alarm System

As an alternative to the buttons "ADD ALL" and "REMOVE ALL" you can press a single partialization to prepare it for being added (if currently off) or removed (if on or on alert). An arrow of the color corresponding to the desired status is shown at the left of the button, as shown in the following figure (in which, by way of example, partialization 1 was pressed for being added):



Pressing "RUN" activates an animation that progressively leads the colored arrow to occupy all the button (of all the partializations that have an action prepared). During this time, operations on the alarm system are carried out to achieve the required configuration; at the end of the animation, if the partializations are of the desired color, the system is configured as expected, otherwise they return to the original color.

Pressing the "LOGOUT" button from the side menu exits the security system with the PIN entered; the situation is returned to that of the first access to the "ALARM SYSTEM" section. Similarly, selecting any other section of By-web, access with the security PIN is cleared, and you must re-insert the code to perform additional operations on the security system.

9.2.3 Events

By selecting "EVENTS" from the alarm system menu you can see the history of the last messages received from the system; the messages are presented from most recent to oldest, and split into several pages for easier reference. Use the buttons below to scroll between pages; press on "EVENTS" again to return to the home page (especially useful in case of new messages received during the consultation, fact highlighted by a light in the alarm system menu under "EVENTS").
It is possible to export the entire list of events through the appropriate button at the bottom of the page; the list is saved on your PC, after a few seconds required to load the data in tab-separated CSV format, easily imported in any spreadsheet (e.g. Microsoft Excel).

9.2.4 Alarms

Similarly to what was seen previously for the EVENTS, "ALARM" can only refer to the list of alarms security system. Again, you can export the list in CSV format.
The presence of a new alarm is highlighted not only by a visual indicator in the corresponding menu item, but also by a visual indicator in the main menu of "ALARM SYSTEM". In the case of an acoustic alarm in progress, use the mute button available in the lower part of the page.

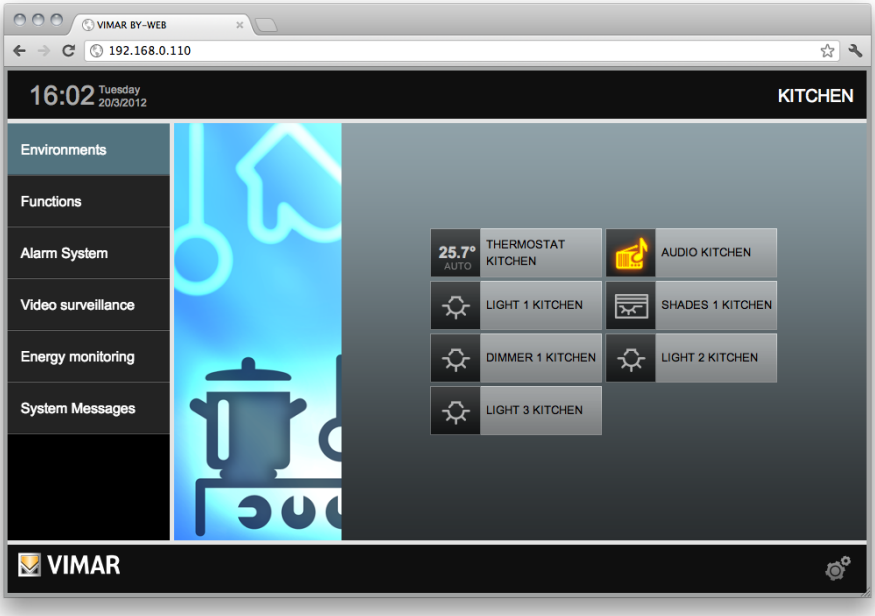
10. Sound System

10.1 Introduction

By-web lets you manage the By-me sound system allowing to control the receivers present in the environments and manage the sound sources.

10.2 Receivers management

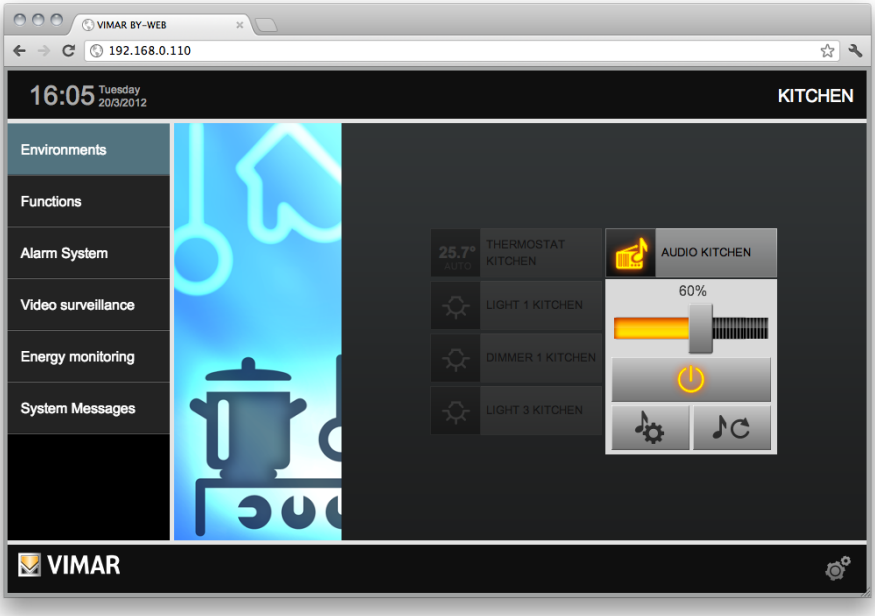
The audio receivers in the different environments can be managed through the "AUDIO" page in the "FUNCTIONS" menu, or, alternatively, depending on the configuration performed by the installer, you can manage them directly from the ENVIRONMENTS in which they are located, as shown in the following example:



Sound System

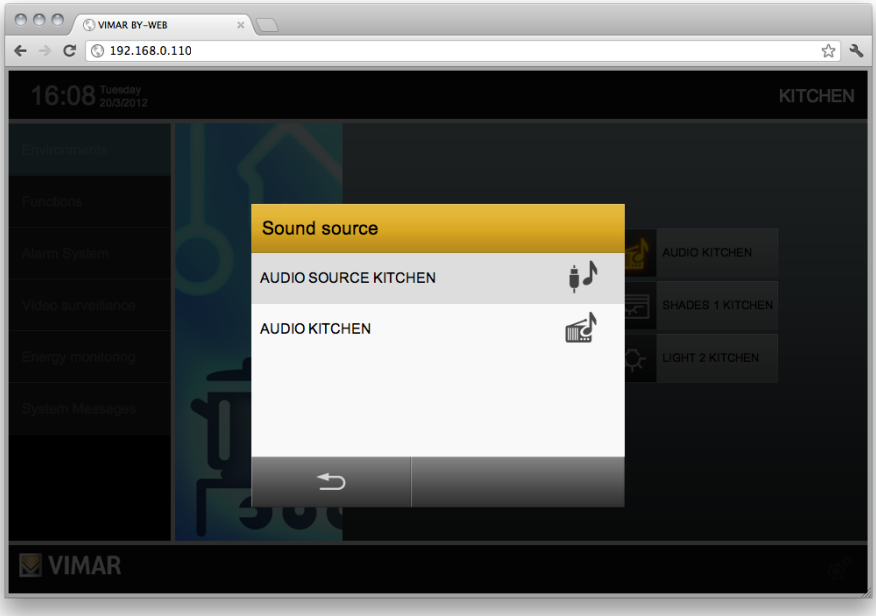
Pressing the button corresponding to the audio receiver ("KITCHEN SOUND" in the example) opens a detail popup through which you can:

- Turn on / off the receiver
- Adjust the volume
- Change the sound source (button at bottom right)
- Check the sound source currently listening (button at bottom left).



Sound System

Pressing the select button of the sound source (bottom right of the detail popup) you can determine which multimedia signal to hear in that environment:



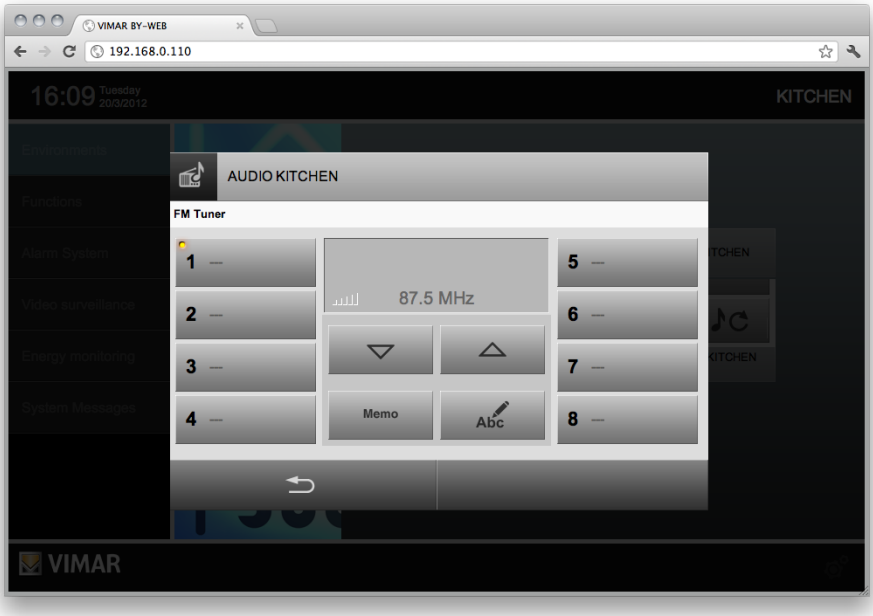
Based on the listening source, the button on bottom left of the detail popup allows you to set the parameters of the source itself, as detailed in subsequent sections.

10.3 RCA Input

This type of sound source does not require any settings.

10.4 FM Radio

The FM radio can be managed through the detail window below:



The central display shows the selected frequency, the signal level and - where available - the RDS name of the FM station; you can then do the following:

FREQUENCY SCAN
The buttons allow you to select the next / previous station to the current one listening. After a few seconds, once identified the new FM station, data is updated in the display (frequency, signal quality and RDS)

RECORD
Memo
Press this button and, subsequently, one of 8 memory units available on the two sides of the panel, to store the current station. If there is an RDS name, it will be automatically assigned to the memory. Press any button to cancel the storage

EDIT LABEL
Abc
Press this button and then one of the 8 memory units to change the name of the unit itself. When finished, press the EDIT button again to save the new name; any other button cancels the edit operation

After storing a station in one of the 8 or more memory units available, you can retrieve it at any time, simply pressing the corresponding button.
To close the radio management window, use the buttons below.

Sound System

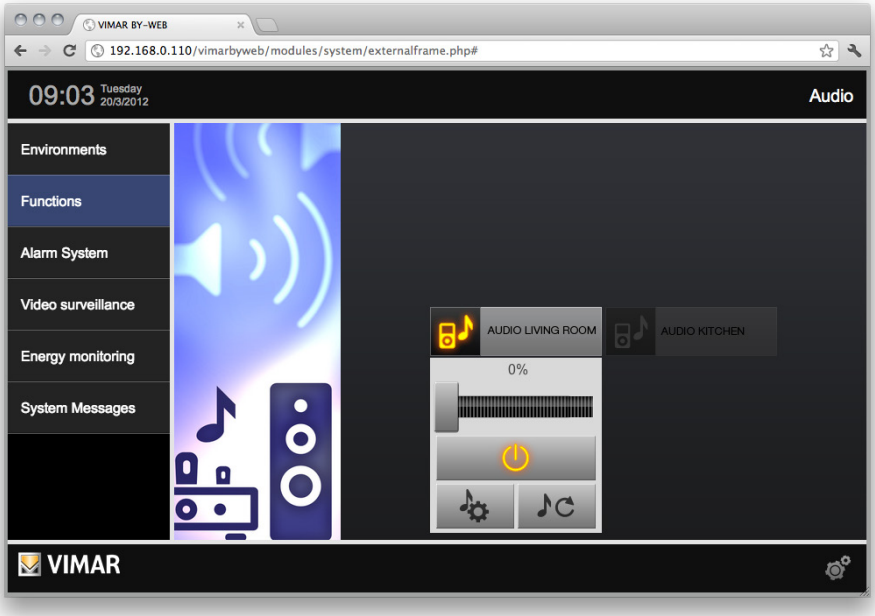
10.5 Docking Station

The BY-ME sound system allows you to control and manage sound tracks on iPhones and iPods by Apple. You can connect, via docking station, a mobile device (iPod - iPhone) and manage its audio content by going to the Audio page in the functions menu.

Pressing the button corresponding to the audio receiver opens a detail popup through which you can:

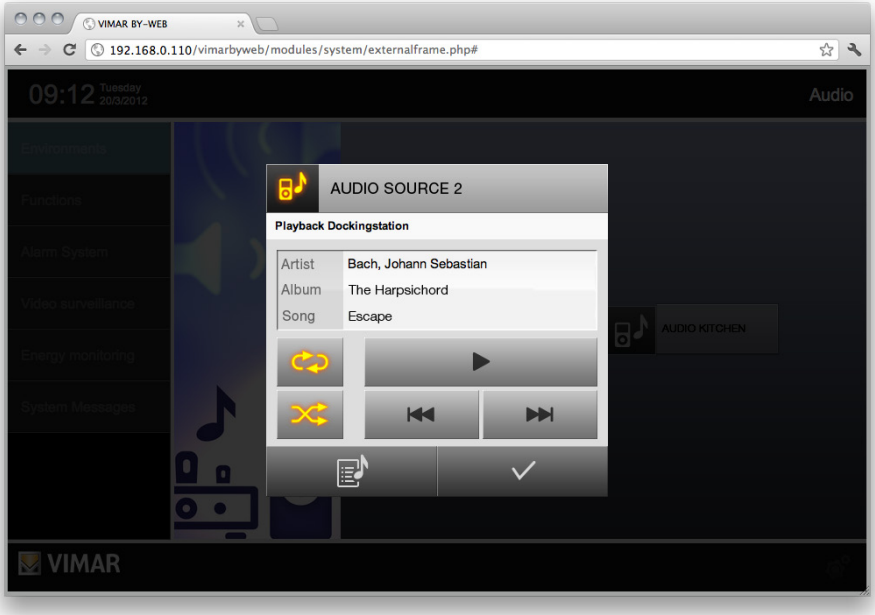
- Turn on or off the receiver;
- Adjust the volume;
- Change the sound source (button at bottom right)
- Access the Docking station settings to control the playlist, turn on and off the track play mode, select the play mode (button at bottom left)

Note: Even when managing the audio from the docking station you can access the detail pop-up of the audio receiver from the environments menu as well as from the functions menu.



Sound System

Pressing the button at the bottom left of the detail pop-up, you can access the management window of the tracks contained in the mobile device.



The top panel displays information about the song to be played: artist name, album title and song title; it is possible to perform the following operations:

PLAY/PAUSE
This button allows you to start or pause the chosen audio track.

SCAN AUDIO TRACKS
The buttons allow the management of the songs in the playlist chosen by the user, you can then press the left button to activate playback of the track previous to the one currently being listened to; on the other hand, the right button will activate the next song playback.
You can then scroll through the songs in the playlist by repeatedly pressing the buttons.

REPEAT
This button can be used for programming the repeated playback of the tracks in the album selected by the user. Pressing the button once activates the repetition of the single track, so at the end of the current track, the track will be
played again. A second press of the button allows to listen to all tracks in the album again.

Sound System

SHUFFLE
Using this button you can listen to audio tracks in casual order.
Pressing the button once you activate the "Shuffle" mode that lets you play the tracks in the album randomly. A second press of the button activates the "Shuffle" mode to all the albums in the archive (the Shuffle mode applies to all songs in the archive).

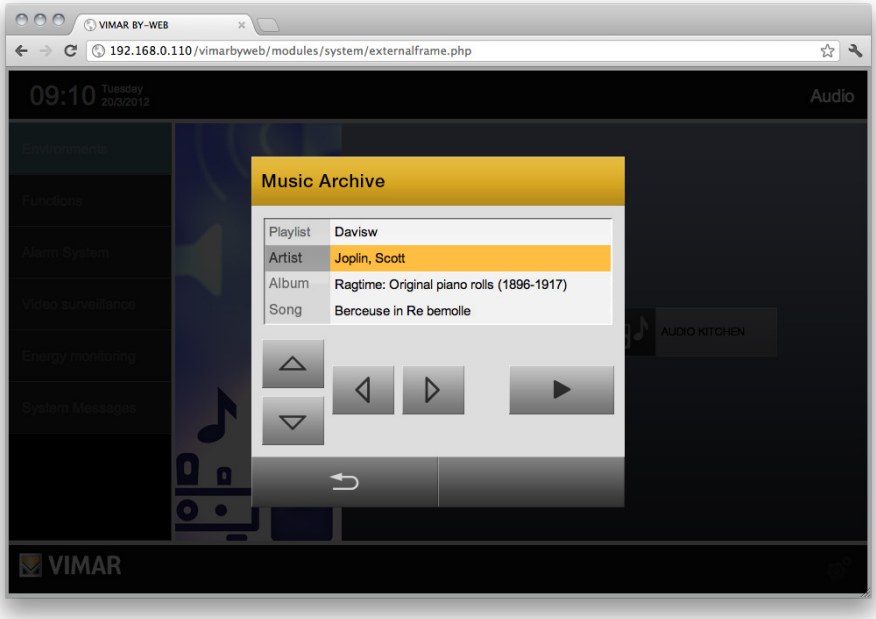
From the detail pop-up of the audio receiver, pressing the button on bottom left , you can access the music archive window.
The top pane displays different categories, each category displays the following information:

Playlist: playlist name (if present in the mobile device)

Artist: artist name

Album: album name

Track: track name.



At the bottom of categories pane are available the following buttons:

CHECK CATEGORY
These buttons let you move through the list of categories (playlist, artist, album, song) and select them one by one in order to view their content.

PREVIOUS/NEXT ITEM
Once the category is selected, pressing these buttons you can select the items within the same category. For example, if the playlist is activated, pressing these buttons can display the playlist before and after the one currently displayed.

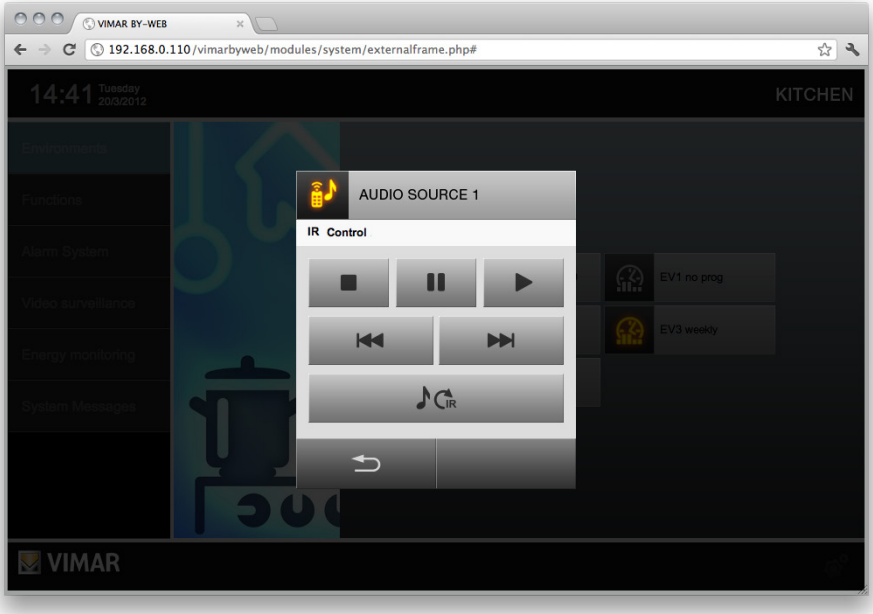
UNCHECK CATEGORY
This button lets you return to the home screen for browsing music in the archive.

> **Note**: this option is not always enabled and the button appears only when this operation is allowed.

PLAY/PAUSE
This button allows you to start or pause the chosen audio track.

10.6 IR

Pressing the button corresponding to the audio receiver opens the classic detail popup through which you can use the IR controls.
Pressing the button at the bottom left of the detail pop-up, you can access the management window of the buttons of the IR control.



Sound System

The buttons displayed have the following default configuration:

PLAY/STOP
These buttons allow the activation and deactivation of the audio track.

PAUSE
The command allows to pause the audio, if you want to reactivate the track you must press the Play button again.

PREVIOUS/NEXT TRACK
The buttons allow to scan the audio tracks; the command on the left plays back the track previous to the one currently being listened to; on the other hand, the right button will activate the next song playback.

AUDIO SOURCE
This button lets you choose the audio source to be used for the playback.

Note: The functions associated with the buttons in the IR control window of the Web Server depend on the configuration of the By-Me system, performed by the installer.

10.7 Bluetooth interface

The By-me sound system allows you to play and manage sound tracks stored on Bluetooth mobile devices using the Bluetooth interface of Vimar's By-me system.
To manage songs from the Web Server, access the Audio page from the functions menu, which contains icons representing the devices of the Vimar audio system.

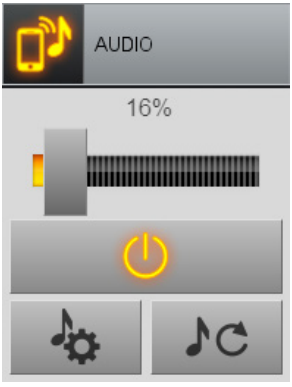
Press the button corresponding to the audio receiver and a popup window will appear in which you can:

- Switch the receiver on and off.
- Adjust the volume.

Change the sound source (bottom right button).

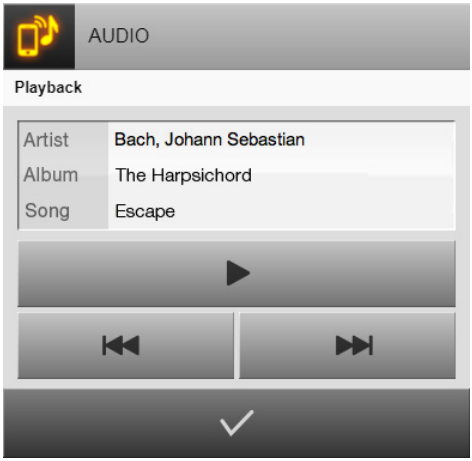
- Access the Bluetooth interface settings to view information about the song currently playing and to switch playback on and off (bottom left button).

Nota: also in the case of audio system management via the Bluetooth interface you can access the audio receiver popup window from the rooms menu as well as from the functions menu.



Pressing the bottom left button opens popup window for the Bluetooth interface.

Sound System



The box at the top displays information about the selected song: artist name, album title and song title.

The following operations can be carried out:

PLAY/PAUSE

This button serves to start or pause playback of the selected audio track.

SCROLL AUDIO TRACKS

These buttons allow you to move backward and forward through the songs in the selected playlist. Press the left button to play the song previous to the current track currently, or press the right button to play the next song in the playlist.

Press the buttons repeatedly to scroll through the tracks in the playlist.

11. Energy monitoring

11.1 Introduction

By-web offers the ability to analyze and manage the electricity consumption and production of the building via the ENERGY MONITORING section , which is accessible from the homonymous main menu item.

Such main menu item appears only if the system includes at least one of the devices managed by this section of the Web Server.

The submenu of the ENERGY MONITORING item includes all the functions related to energy management of the building by the By-me system (electricity consumption, electricity production, electricity consumption of individual loads, pulse counter management).

Through the Energy monitoring section it is possible to obtain information on the instantaneous and historical data stored by the Web Server through graphical representations, or numerical data.

The Web Server provides the ability to export the detailed numeric data in csv format.

The items in the Energy Monitoring submenu are analyzed below (the presence of some functions depends on the specific configuration of the By-me system).

11.2 Energy Consumption

This menu item gives access to the section dedicated to "global" energy consumption of the building.
The data relating to electricity consumption are displayed in graphical and numerical format (data table for details).

When the consumption of a three-phase line is being monitored, the consumption indicator indicates the sum of the consumptions of the three phases.

11.2.1 Graphic display

Selecting ENERGY CONSUMPTION from the ENERGY MONITORING menu displays the first page containing a graphic summary of the energy consumption in the last 24 hours, as shown in the following figure.

Energy monitoring

With the icon , you can sequentially cycle through the data relating to energy consumption (in kWh), greenhouse gas emissions (if this feature has been enabled during installation) and costs.

The buttons in the bottom part of the page allow the reference time period to be altered.

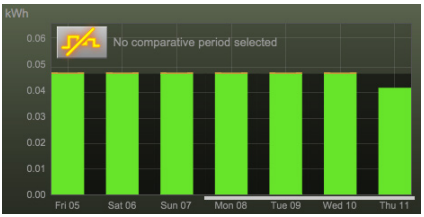
DAY	Displays data from the last 24 weeks, highlighting the ones of the current day (starting at midnight)
WEEK	Displays data from the last 7 days, highlighting the ones from Monday of this week
MONTH	Displays data from the last 5 weeks, highlighting the ones from the first day of the current month
YEAR	Displays the data from the last 12 months, highlighting the ones from January 1 of this year

According to the data type and period chosen, Web Server extracts data from the history and shows three distinct graphs, which contain different levels of information.

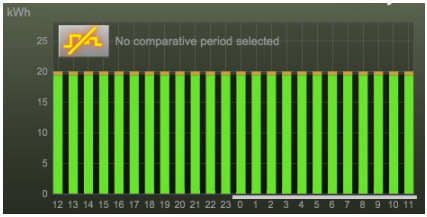
NOTE: based on the data collected in the home automation system, Web Server may not provide a complete analysis of the consumption in the absence of certain information, especially in the early stages of using By-web.

Energy monitoring

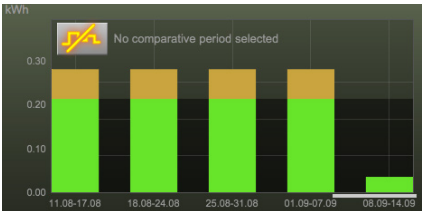
The bar graph in the lower half of the page shows the valuesof consumption, emissions and cost for the past periods, based on the interval (days, weeks, months or years) chosen:



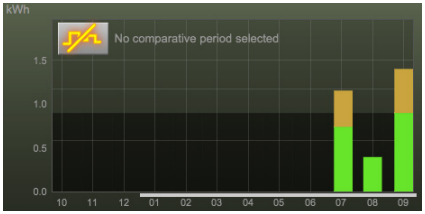
Example of weekly chart



Example of daily chart



Example of monthly chart



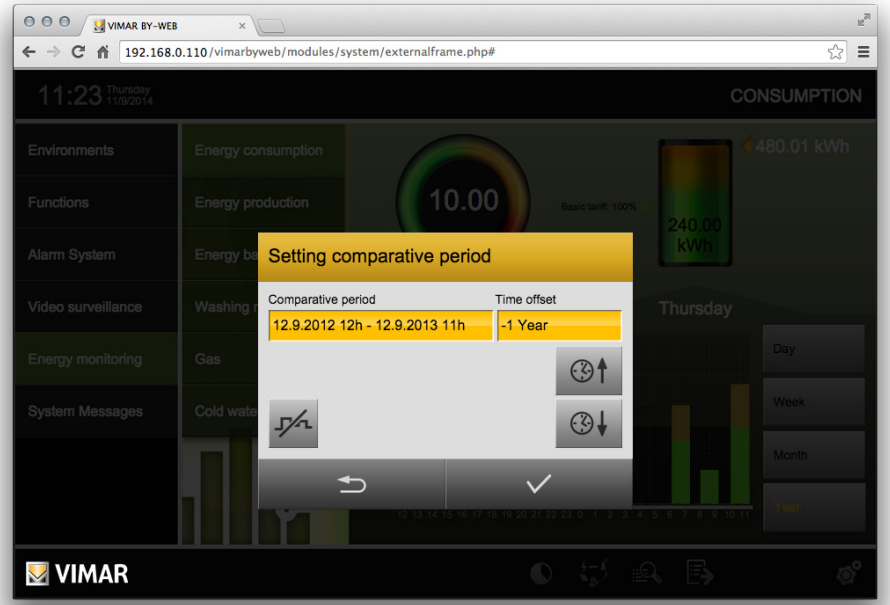
Example of yearly chart

The darker portion of the background of the graph shows the average calculated for the same interval, in previous periods; in the case of daily display and hourly rate contract, the averages are displayed in different time frames. The part of each bar of the graph exceeding the average is highlighted in orange, to emphasize how at that given time interval the average has been exceeded (or, in the case of threshold contracts, the average consumption to stay within the limits set by the contract).

In the case of hourly rate contracts, consumption (and emissions/costs) in the different time frames are highlighted with different shades of green; in case of exceeding the average, the surplus is always represented with the color orange regardless of time frame. In case of threshold contract, conversely, exceeding the threshold compared to the reference period is highlighted with a darker green.
In case of exceeding the monthly consumption, all the following intervals are highlighted in red.

Energy monitoring

You can overlay the graph of the current day / week / month / year in comparison with a similar period in the past; to do this, press the comparison button at the top left in the chart, and select the desired period for comparison in the selection window after enabling the comparison (by pressing the button at the bottom left of the popup window).



The periods of comparison available depend on the interval selected. Once identified the reference period, confirm through the confirmation button on bottom right; the BACK button on the left, instead, allows of closing the window without making changes to the comparative period.

Energy monitoring

Once you have selected a period of comparison, Web Server overlays the bar graph with a line corresponding to the consumption profile for the period chosen for comparison, as shown in the figure.

At the top right corner of the page, the stack diagram represents the total consumption (or emission/cost) incurred since the beginning of the reference period (current day / week / month / year); the reference period is highlighted below the graph bar by a white line. Above diagram is shown the total numerical value, while on the right side is an indication of the consumption (or emission/cost) prediction at the end of the reference period; this prediction is estimated by assuming that the average consumption since the beginning of the period is maintained until the end.

Even in this diagram, in the case of hourly rate contracts, the consumption in different time frames is highlighted with different shades of color; in the case of threshold contract, conversely, the exceeding of the average predicted by the contract threshold referring to the period is highlighted in darker green. As in the case of the bar graph, exceeding the contract threshold of the month is highlighted by a warning indicator on the stack.

On top left of the page is a needle indicator that represents the instantaneous consumption (or the emission/cost), detected since the last reading in the system; in this case the value represented is compared to the time, and then respectively the electrical power (kW), time emission (kgCO2/h) or hourly rate. Also in this case the value is compared to the average or contract threshold, based on the type of contract, and the graph shows in orange any exceeding of the average.

Energy monitoring

11.2.2 Details

The Web Server allows to view and/or export the consumption data stored by the Web Server to a file (csv format) using the following icons placed in the bottom horizontal bar of the consumption page.

	Viewing detailed data
	Exporting detailed data

Viewing detailed data

Selecting the appropriate item in the Web Server menu, you can see the details of the analysis of consumption. Again, the data can be displayed according to type - consumption, CO^2 emissions or cost - and time - days, weeks, months, years - using the buttons at the bottom of the page and the same side menu.

The page contains a summary section at the beginning, with an estimate of consumption (or emission / cost) in the selected period; according to the type of contract, the data is displayed for each time frame, or divided between "level frame" (i.e. below the monthly contract threshold) and "extra" (i.e. above the contract threshold), in addition to the total. It also shows the breakdown percentage of the various bands.

Just below, the page shows the average calculated over the reporting period, a period whose duration depends on the current view: hourly average in the case of daily display, daily average in the case of week view, etc... also in this case with details for the frame.
The page then returns the detail, also in this case with the detail by frame in addition to the total, of the readings carried out, according to the following criterion:

DISPLAY	READINGS
DAY	Last 24 Hours
WEEK	Last 20 Days
MONTH	Last 20 Weeks
YEAR	Last 20 Months

Where the data exceeds the average (or threshold, in the case of fixed price contracts) it is highlighted with a dot in order to draw immediate attention to situations where the consumption was higher than expected. Where the data exceeds the available space on the page, you can scroll it using the buttons in the bottom bar of the page, which also shows the number of pages into which the data is divided.

You can return to the graphical display at any time via the icon "graphics mode" in the bottom bar of the winzow.

Exporting detailed data

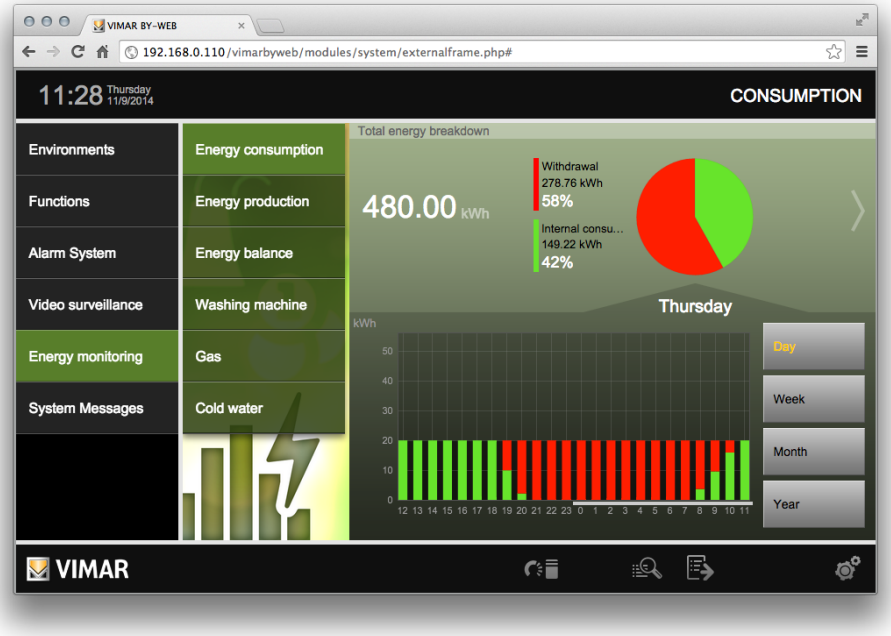
It is possible to export the detailed consumption data in csv format, by using the icon in the bottom bar of the window: Pressing the icon activates the download of the file as provided by the settings of the browser used (refer to the download settings of the browser you are using to access the Web Server).

11.2.3 Energy consumption: energy draw-off and internal consumption

This view is only available if the By-me system provides for the management of consumption and production of electricity and the Web Server has been properly configured.

From the ENERGY CONSUMPTION screen, pressing the button in the lower horizontal bar enables a graphical display where the consumption data is divided into draw-off (from the network) and internal consumption.

Internal consumption refers to the amount of consumption of energy generated by the manufacturing facility.



Data is displayed for the selected period (day, week, month and year). In the upper part of the screen is highlighted the numeric data in KWh of the energy consumed during the period.

The numerical data shown in reference to the DRAW-OFF item, show the value in KWh of energy drawn off from the public network in the selected period, as well as the percentage of energy drawn off from the public network compared to the total energy consumed in the same period.

The data on the energy consumed internally, show the value of the energy consumed in KWh, drawn off from the PV, and its percentage compared to the total energy consumed in the same period.

Energy monitoring

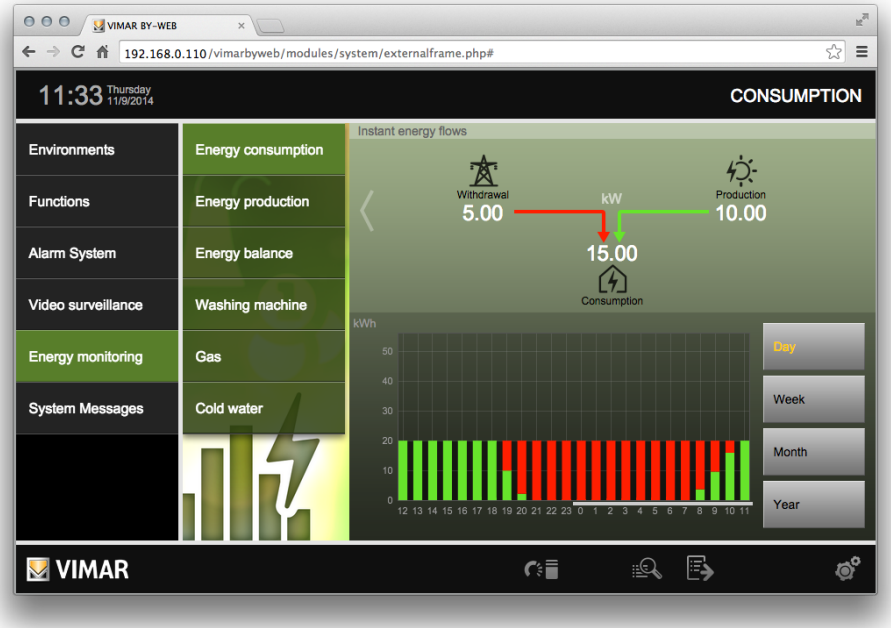
The pie chart shows the breakdown of the energy consumed in the period, drawn off from the public network and internally consumed energy.

Pressing the arrow to the right of the pie chart, changes the display of the "Instant energy flows" (refer to section 10.2.4).

11.2.4 Instant energy flows

This view is only available if the By-me system provides for the management of consumption and production of electricity and the Web Server has been properly configured.

In this view is displayed by pressing the "arrow" key to the right of the pie chart (consumption, production, and energy balance).



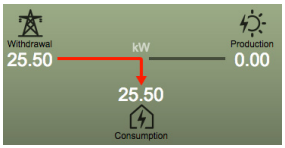
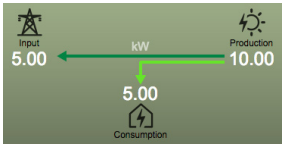
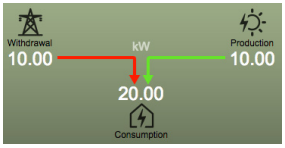
The instant energy flows pattern, shows, in real-time, instant values, in KW, of the consumption of electricity drawn off from the public network, the production of photovoltaic energy, the amount of energy input into the public network and the total consumption of the loads.

To go back to the pie chart, which was the starting point, simply press the arrow to the left of the screen.

Energy monitoring

Pressing the button leads back to the first display page to view the pie chart.

Below is a table with some examples of representations:

	The plant is not producing electricity and all the electricity consumed is drawn off from the public network.
	The plant is producing more electricity than it is consuming. The energy produced not consumed by the plant is input into the public network.
	The plant is producing less electricity than it is consuming. The plant is also drawing off electricity from the public network.

Energy monitoring

11.3 Energy production

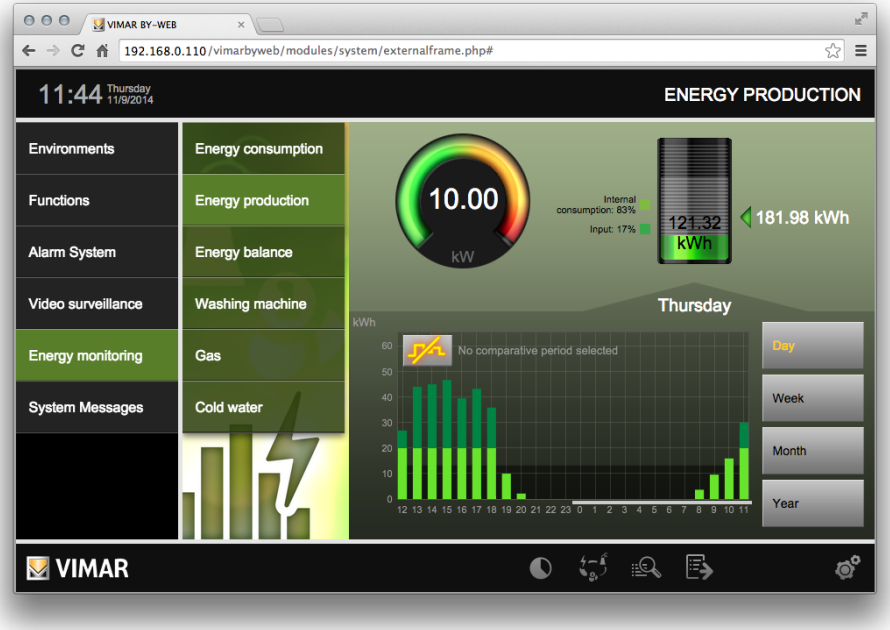
To access to the management of the electricity production of the building, select ENERGY MONITORING from the main menu and then select the ENERGY PRODUCTION sub-menu.

The Web Server monitors the production of energy by displaying the data in a graphical format and detailed tables.

If it is monitoring production on a three-phase line, the production indicator reports the sum of the production of the three phases.

11.3.1 Graphic display

Selecting ENERGY PRODUCTION from the ENERGY MONITORING menu displays the first page containing a graphic summary of the energy consumption in the last 24 hours, as exemplified in the following figure.



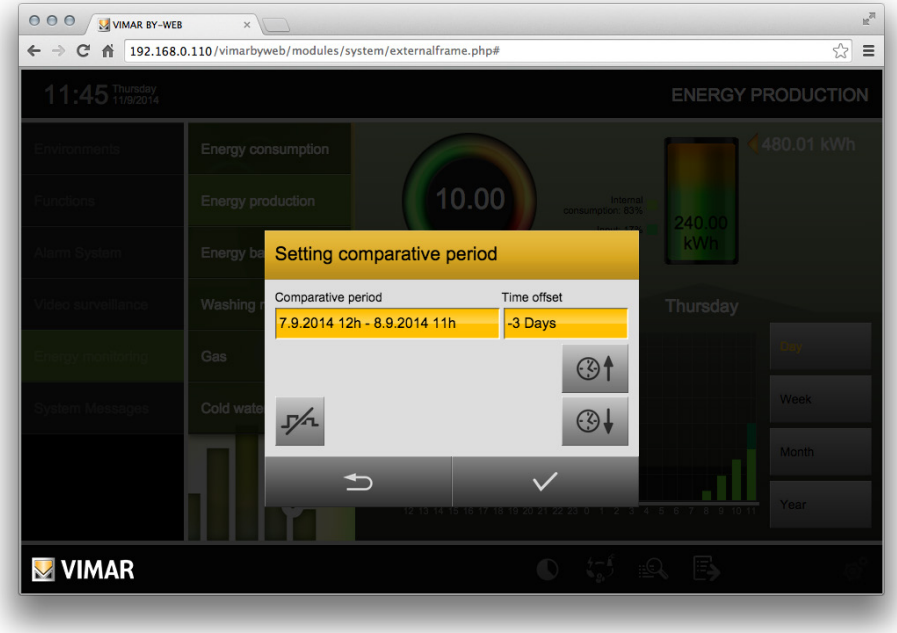
Energy monitoring

The buttons in the bottom part of the page allow the reference time period to be altered.

DAY	Displays data from the last 24 weeks, highlighting the ones of the current day (starting at midnight)
WEEK	Displays data from the last 7 days, highlighting the ones from Monday of this week
MONTH	Displays data from the last 5 weeks, highlighting the ones from the first day of the current month
YEAR	Displays the data from the last 12 months, highlighting the ones from January 1 of this year

NOTE: based on the data collected in the home automation system, Web Server could not provide a complete analysis of the consumption in the absence of information, especially in the early periods of use of By-web.

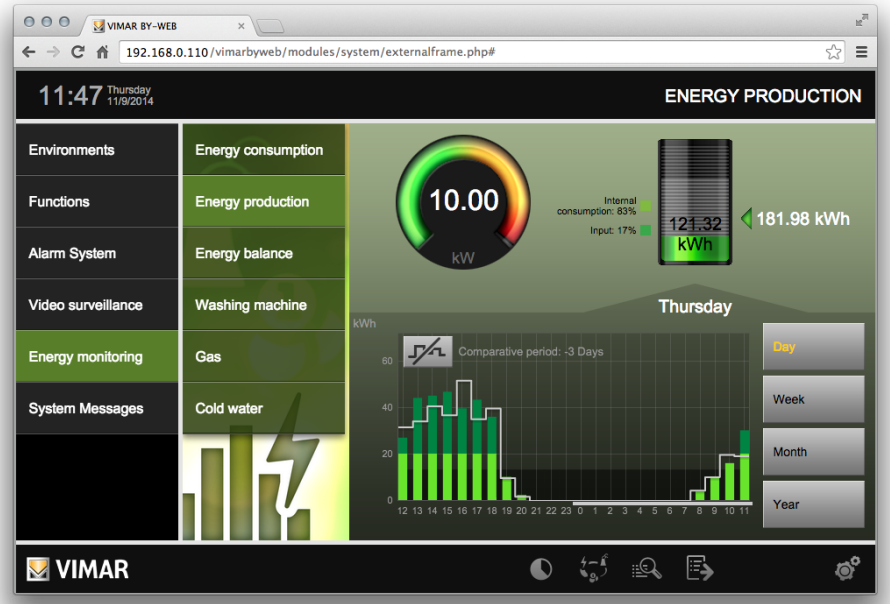
You can overlay the graph of the current day / week / month / year in comparison with a similar period in the past; to do this, press the comparison button at the top left in the chart, and select the desired period for comparison in the selection window after enabling the comparison (by pressing the button at the bottom left of the popup window).



Energy monitoring

The periods of comparison available depend on the interval selected. Once identified the reference period, confirm through the confirmation button on bottom right; the BACK button on the left, instead, allows of closing the window without making changes to the comparative period.

Once you have selected a period of comparison, Web Server overlays the bar graph with a line corresponding to the production profile for the period chosen for comparison, as shown in the figure.



At the top right corner of the page, the stack diagram represents the overall production since the beginning of the reference period (current day / week / month / year); the reference period is highlighted below the graph bar by a white line. The total value is shown above the diagram.

In the top left of the page there is a needle indicator that represents the instantaneous power produced (kW), as per the last system reading.

11.3.2 Details

The Web Server allows to view and/or export the producttion data stored by the Web Server to a file (csv format) using the following icons placed in the bottom horizontal bar of the production page.

	Access to the detailed view of the data
	Export data for production

Viewing detailed data

The upper part of the page shows the average value of the production, calculated in the selected period.

The page also contains details of the readings taken according to the following.

DISPLAY	READINGS
DAY	Last 24 Hours
WEEK	Last 20 Days
MONTH	Last 20 Weeks
YEAR	Last 20 Months

Where the data exceeds the available space on the page, you can scroll it using the buttons in the bottom bar of the page, which also shows the number of pages into which the data is divided.

You can return to the graphical display at any time via the icon "graphics mode" in the bottom bar of the window.

Exporting detailed data

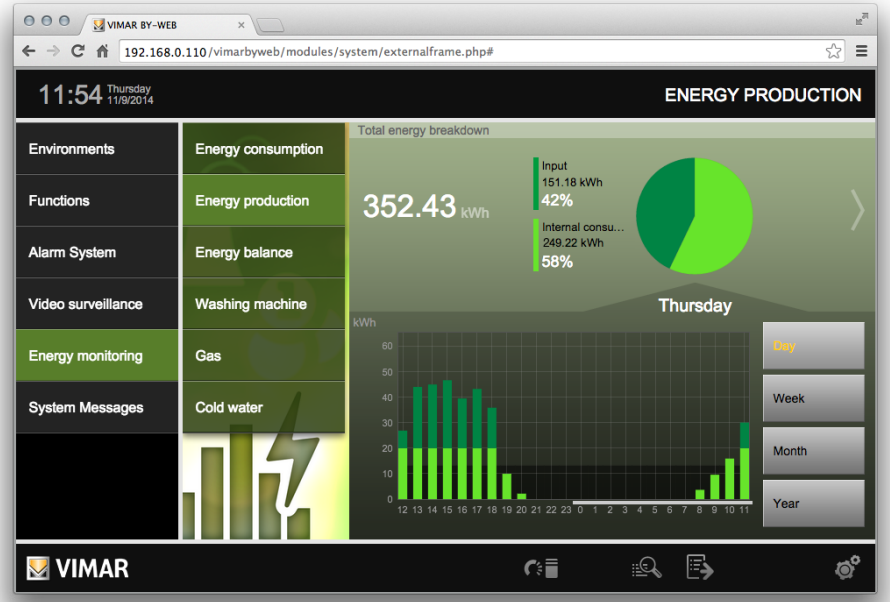
It is possible to export the detailed production data in csv format, by using the icon in the bottom bar of the window: Pressing the icon activates the download of the file as provided by the settings of the browser used (refer to the download settings of the browser you are using to access the Web Server).

Energy monitoring

11.3.3 Energy production: energy input and internal consumption

This view is only available if the By-me system provides for the management of consumption and production of electricity and the Web Server has been properly configured.

From the ENERGY PRODUCTION screen, pressing the button in the lower horizontal bar enables a graphical display where the production data is divided into input (into the network) and internal consumption.



Data is displayed for the selected period (day, week, month and year). In the upper part is highlighted the numeric data in KWh of the energy produced by the PV system of the building.

The numerical data shown in reference to the INPUT item, show the quantity in KWh of energy that the PV system inputs into the public network in the selected period, as well as the percentage of energy input into the public network compared to the energy produced in the same period.

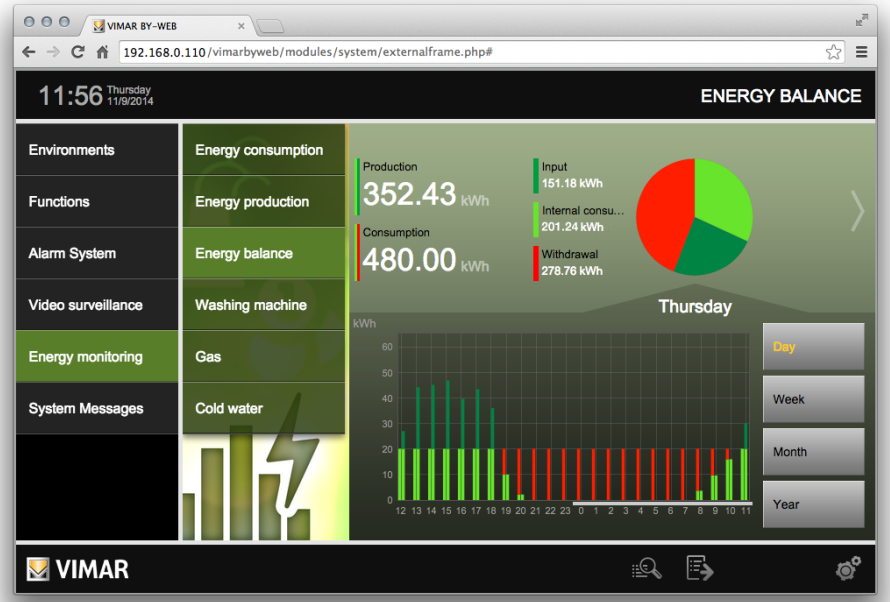
The data on the energy consumed internally, show the value of the energy consumed in KWh, drawn off from the PV, and its percentage compared to the energy produced in the same period.

The pie chart shows the breakdown of the energy produced in the period, input into the public network and internally consumed energy.

Pressing the arrow to the right of the pie chart, changes the display of the "Instant energy flows" (refer to section 10.2.4).

11.4 Energy balance

Selecting ENERGY BALANCE from the ENERGY MONITORING submenu shows the page containing a graphic summary of the electric consumption and production of the plant.



The data displayed on the ENERGY BALANCE screen is related to the period (day, week, month and year) selected by the user through the appropriate buttons.

In the graphical representations, colors are used to represent the following quantities:

	Electricity from the public network
	Electricity consumed internally
	Electricity input into the public network

Energy monitoring

The energy produced by the plant is given by the sum of the energy consumed internally and the energy input into the public network. In the graph shown at the bottom of the window, this quantity is represented by superimposing the two bars representing the energy consumed internally and the input one.

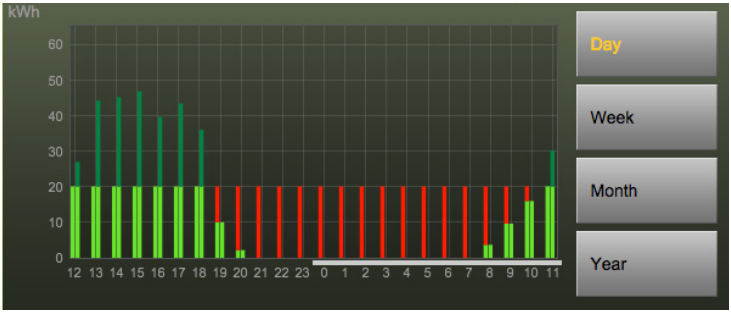
The total energy consumed by the plant is given by the sum of the energy consumed internally and the energy drawn off from the public network. In the graph shown at the bottom of the window, this quantity is represented by superimposing the two bars representing the energy consumed internally and the one drawn off from the network.

The numerical data shown in reference to the INPUT item displays the quantity, in kWh, of energy the photovoltaic system inputs into the public network in the time interval selected; just below is the INTERNAL CONSUMPTION item with its numeric value indicating the amount of energy consumed from the one produced by the photovoltaic system of the building.

The PRODUCTION item shows the sum between the amount of input energy and the energy internally consumed by the photovoltaic system.

The pie chart provides a comparison between the energy drawn off, input and internally consumed in the selected period (compared to the sum of the three energies).

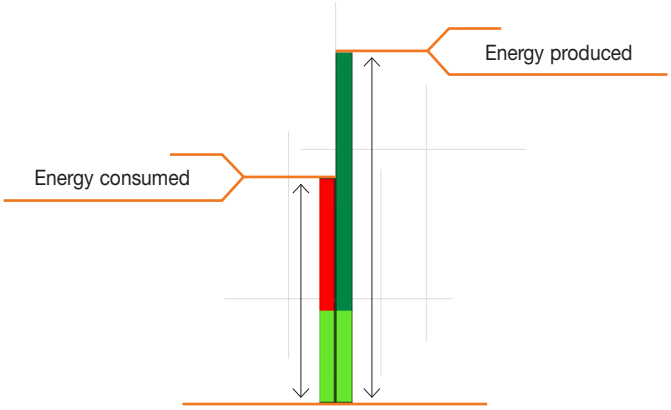
At the bottom of the screen is the histogram of the ENERGY BALANCE relative to the time interval selected with the corresponding buttons (day, week, month and year).



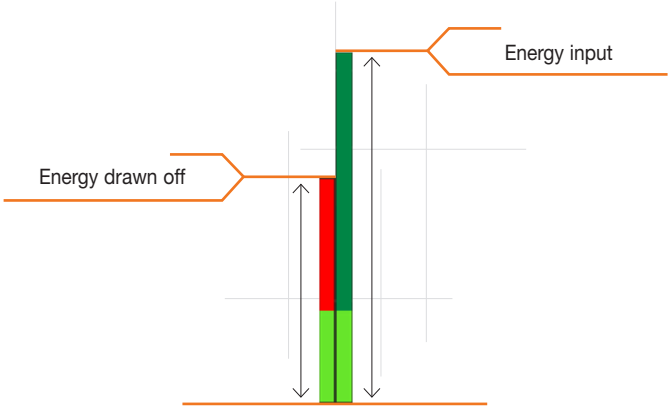
Energy monitoring

For each "unit of time" (e.g. "hour" for the period "Day"), is shown a pair of side by side bars, representing respectively the electricity consumed and the one produced. The two side by side bars, created by two overlapping bars, as described previously, have the internal consumption in common.

This way , the comparison between the energy produced and consumed for each "time unit" is clear: comparison between the overall heights of the two bars that make up the pair (see image below).



For each "time unit", the comparison between the energy drawn off and one input is also clear: comparison between the heights of the two bars, red and dark green, which make up the pair (which have the consumption bar in common) (see image below).



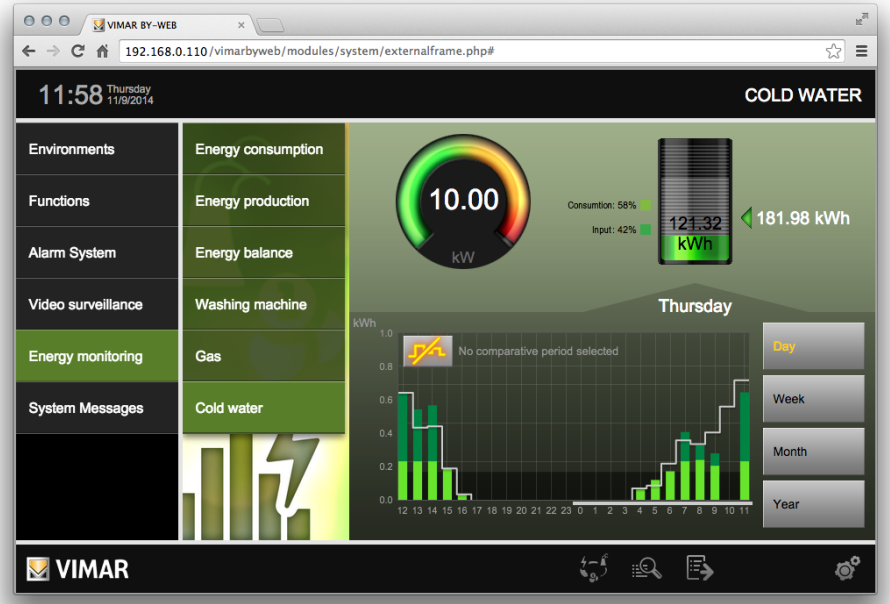
Pressing the arrow to the right of the pie chart, changes the display to the "Instant energy flows" (refer to section 10.2.4).

Energy monitoring

11.5 Single load consumption

The Web Server makes it possible to analyze the electricity consumption of individual loads (or groups of loads) in the building, if required by the -By me system and after suitably configuring the Web Server.

The page with the consumption of a single load can be accessed by selecting the name of the load from the ENERGY MONITORING menu, as shown in the following figure.



The appearance of the window is similar to the plant consumption management one.

The button, which is in the lower horizontal bar, shows the energy consumption, CO2 emission, and cost, in a sequential and circular manner.

The button, which is in the lower horizontal bar, shows the load consumption numerical data.

The button, which is in the lower horizontal bar, allows to export (csv file) the detailed load consumption data.

Energy monitoring

In the upper left corner of the page there is a speedometer representing the instant the consumption (or draw off / cost), detected since the last reading of the system.

At the top right corner of the page, the stack diagram represents the total consumption (or emission/cost) sustained since the beginning of the reference period (current day / week / month / year); the reference period is highlighted below the graph bar by a white line. The stack diagram shows the total numerical value, while on the right side is an indication of the consumption (or emission/cost) prediction at the end of the reference period; this prediction is estimated by assuming that the average consumption since the beginning of the period is maintained until the end.

Even in this diagram, in the case of hourly rate contracts, the consumption in different time frames is highlighted with different shades of color; in the case of threshold contract, conversely, the exceeding of the average predicted by the contract threshold referring to the period is highlighted in darker green. Exceeding the contract threshold of the month is highlighted by a warning indicator on the stack.

The bar graph in the lower half of the page shows the values of consumption, emissions and cost for the past periods, based on the selected time interval (days, weeks, months or years).

The darker portion of the background of the graph shows the average calculated for the same interval, in previous periods; in the case of daily display and hourly rate contract, the averages are displayed in different time frames. The part of each bar of the graph exceeding the average is highlighted in orange, to emphasize how at that given time interval the average has been exceeded (or, in the case of threshold contracts, the average consumption to stay within the limits set by the contract).

In the case of hourly rate contracts, consumption (and emissions/costs) in the different time frames are highlighted with different shades of green; in case of exceeding the average, the surplus is always represented with the color orange regardless of time frame. In case of threshold contract, conversely, exceeding the threshold compared to the reference period is highlighted with a darker green.

In case of exceeding the monthly consumption, all the following intervals are highlighted in red.

You can overlay the graph of the current day / week / month / year in comparison with a similar period in the past; for this purpose, press the comparison button at the top left in the chart, and select the desired period of comparison in the selection window after enabling the comparison (by pressing the button at the bottom left of the popup window):

The periods of comparison available depend on the interval selected. The way to set this function and its graphical representation are identical to those described in the "Energy Consumption" section (refer to section 10.2.1).

Energy monitoring

11.6 Pulse-counter

11.6.1 Introduction

The Web Server allows to view the data provided by the pulse counter interface (P/N Vimar 01452) in graphic and numerical format, and to export it to a file (in csv format). The pulse counter (01452) allow the collection of data from devices with pulse output, such as power, water, gas, etc., meters.

Important: this function requires the presence of a pulse counter, suitably configured, and an SD card inserted in the Web Server.

The numerical and graphical presentation of the data is similar to the one seen in other ENERGY MONITORING sections and will be described in detail in the following chapters.

11.6.2 Types of data managed by the pulse counter Vimar (P/N 01452)

The following table shows the types of data handled by the pulses counter by Vimar with the relevant units of measurement.

Important: The data type (and corresponding unit of measurement) cannot be set from the Web Server, but it must be set during configuration of the By-me system (refer to the technical documentation regarding the configuration of the By-me system).

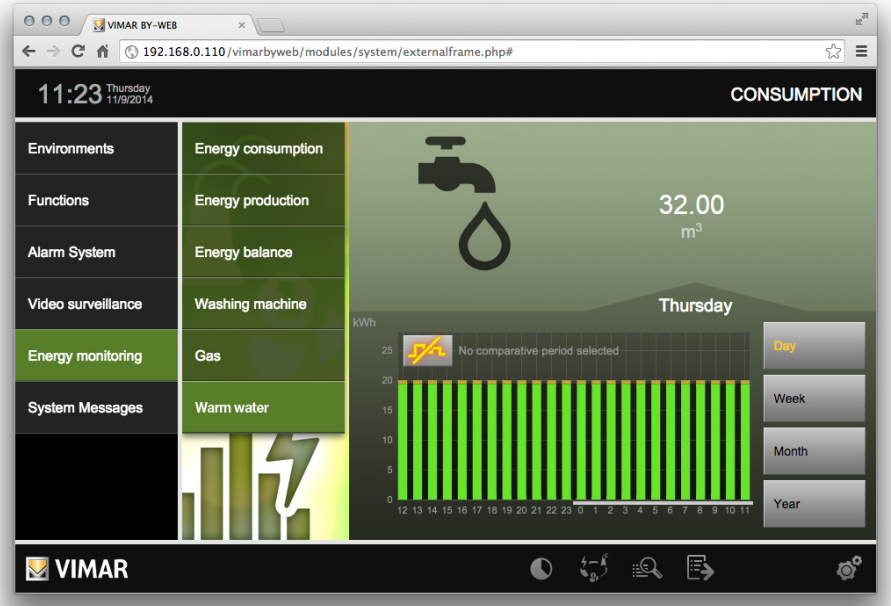
Below is a table with the data types, symbol used by the Web Server, and corresponding selectable units of measurement, of the Vimar pulse counter (P/N 01452):

Type of data	Symbol displayed by the Web Server	Usable unit of measurement
Generic		--- (charge)
GAS Volume		m^3
Cold water volume		Liter m^3
Hot water		Liter m^3 kJ cal kWh
Electricity		kWh
Speed		m/s

11.6.3 Graphical display

The graphical representation of the pulse counter data is similar for the different types of data (and corresponding units of measurement).

The next window shows the window on the cold water volume measurement, in m3.



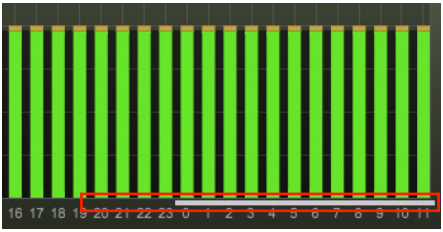
The page displays the following items:

- In the upper left corner is a graphic image that identifies the type of counter
- In the upper right is a numeric indicator, with corresponding unit of measurement, relative to the measured quantity in the selected period.
- In the lower horizontal bar are the following features:

	Impostazione della visualizzazione: Consumo/Emissione CO^2/costo in €. Tale impostazione è sequenziale e circolare.
	Passaggio alla vista di dettaglio dei dati numerici.
	Esportazione dei dati numerici in un file in formato csv.

Energy monitoring

- In the middle right are buttons for selecting the display period: day, week, month, year. This setting has no effect either on the time scale of the histogram, or on the total value of the period, which is displayed in the top right.
- In the central part there is a histogram with the data of the selected period.
  The period used for the calculation of the consumption in the period of reference (figure provided in the upper right) is highlighted by the horizontal grey bar placed between the base of the histogram and the line with the numbers of the horizontal axis of the graph (see picture below).



11.6.4 Viewing detailed data

Press the icon in the lower horizontal bar to access the page with a summary of numerical data stored by the Web Server.

From the home page you can change the time period analyzed.

Important: please note that the Web Server stores the historical data of the pulse counter into the external SD memory card, and then this feature expects the installation of to an SD card

11.6.5 Viewing detailed data

The icon in the lower horizontal bar, allows to export detail data as a csv file: the file download starts as set for the browser used (refer to the download settings provided by the browser you are using to access the Web Server).

12. KNX Weather Station (art. 01546)

12.1 Introduction

The data provided by the device "KNX Weather Station (art. 01546)" is handled by the Web Server 01945-01946 and related App for mobile devices (By-web for iOS and By-web for Android).

The Web Server provides a page dedicated to the management of weather Stations installed on the By-me system.

On a By-me system can be installed up to four weather stations.

The data provided by the device and displayed by the Web Server is as follows:

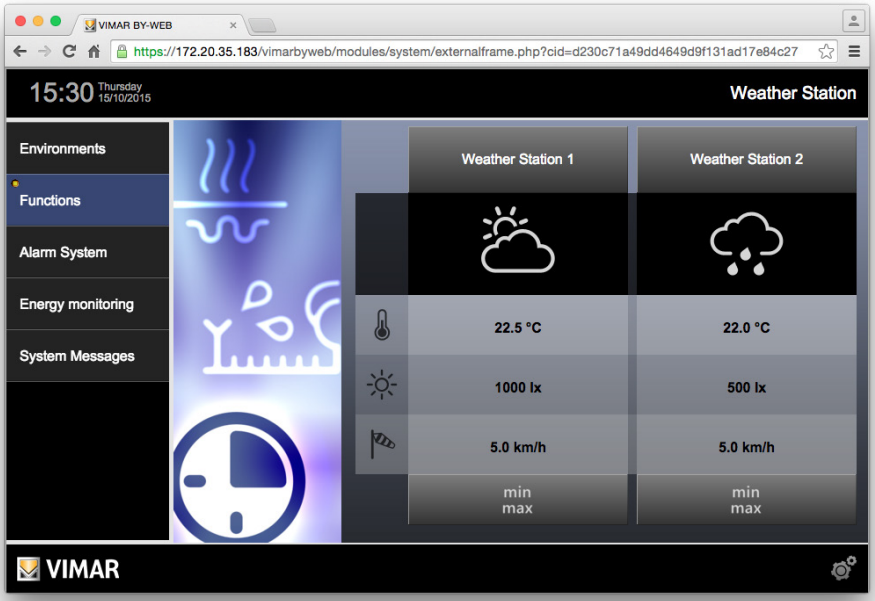
- Temperature (°C)
- Brightness (lx)
- Wind speed (km/h)
- Twilight (Day or Night. To set the threshold refer to your installer)
- Precipitation sensor (Precipitation in progress/No precipitation in progress)
- Min/Max temperature
- Maximum wind speed

As for the management of Min/Max temperature and Max wind speed, refer to chapter "12.2.2 Managing min/max values of the weather station" of this manual.

12.2 Graphics page dedicated to the KNX weather station

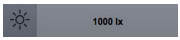
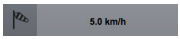
From "Weather Station" in the "Features" menu, you can access the graphics page, which shows the data of all weather stations in the system.

The following figure shows, by way of example, the case of a system in which two weather stations are configured.



Below are described the elements of the graphical representation of weather station:

Widget element	Description
	Field with the description of the weather station.
	Icon that summarizes the current state of the weather, combining information on temperature, rain sensor, day/night. For the meaning of the symbols refer to the chapter "12.2.1 Graphic symbols for the representation of the current state of the weather." **IMPORTANT**: This is not the graphic representation of a weather forecast, but a representation of the current state of the weather.
	Measured temperature.

	Measured brightness.
	Measured wind speed.
	Button to open the window to display the mi /max temperature (with a button for manual reset of these values) and for displaying the max wind speed (with a button for manual reset of this value). Refer to chapter "12.2.2 Managing min/max values of the weather station."

12.2.1 Graphic symbols for the representation of the current state of the weather.

The following table describes the possible representation of the current state of the weather.

Symbol	Description
	It is day and it is not raining
	It is night and it is not raining
	It is raining and the temperature is above 2 °C
	It is raining and the temperature is between 0°C and 2 °C
	It is raining and the temperature is below 0°C

Important: please note that the graphic symbol displayed is not a weather forecast, but it is a graphical representation of the values measured at that time by the weather station.

12.2.2 Managing min/max values of the weather station.

Press "min/max" in the widget of the weather station to access the window where the min/max temperature and the maximum wind speed are displayed, with the buttons for manual reset of these values (see figure below).

The first row shows the minimum and maximum temperature, followed by the button to reset these values. The second row shows the maximum wind speed, followed by the button to reset these values.

The Web Server also provides for the possibility to automatically reset the max/min temperature and max wind speed) at midnight of each day. This feature must be set in the appropriate section of the General settings (refer to the Installer Manual).

13. Analog inputs home automation Interface management (art. 01467)

13.1 Introduction

The device with analog input signal (art. 01467) integrates with the By-me home automation system for managing thermoregulation and energy.

The 3 inputs are as follows:

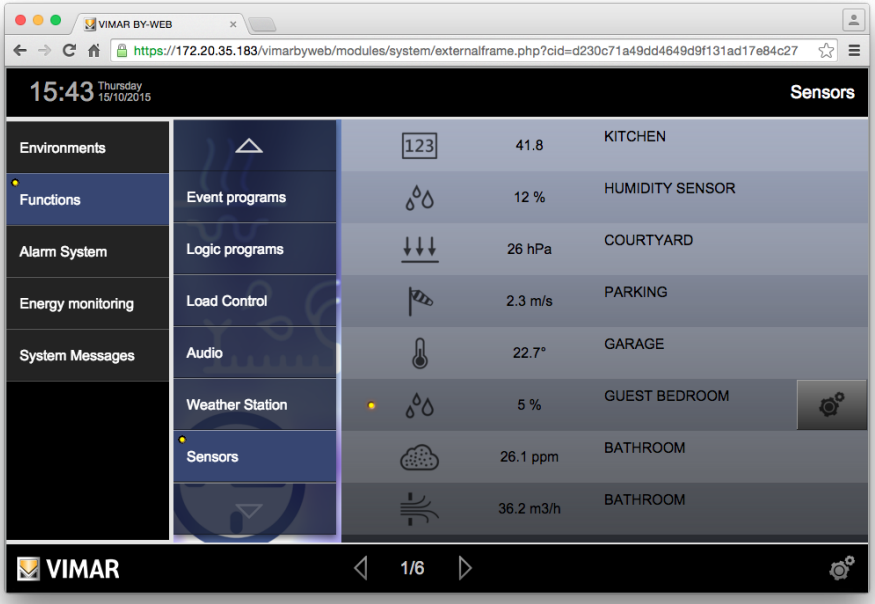
- 1 input per 0-10 V voltage sensor or 0-20 mA current sensor (the selection is made only during the configuration): allows to connect the By-me devices to any probe with a standard current or voltage output.
- 1 input per NTC temperature sensor by Vimar (art. 20432, 19432, 14432, or 02952).
- 1 input per brightness sensor by Vimar (art. 01530): promotes energy savings because it allows to turn off or dim the artificial light in the presence of sufficient natural light to reach the desired brightness level.

The Web Server allows the visualization of sensor data through:

- Page dedicated to sensors, accessible from "Sensors" in the "Functions" menu
- Adding the sensors graphic widget to the environments pages

13.2 The "Sensors" page in the "Functions" menu

If sensors are configured in the system (handled by device 01467) the Web Server creates the "Sensors" page, accessible by selecting the "Sensors" from the "Functions" menu, as shown in the following figure.



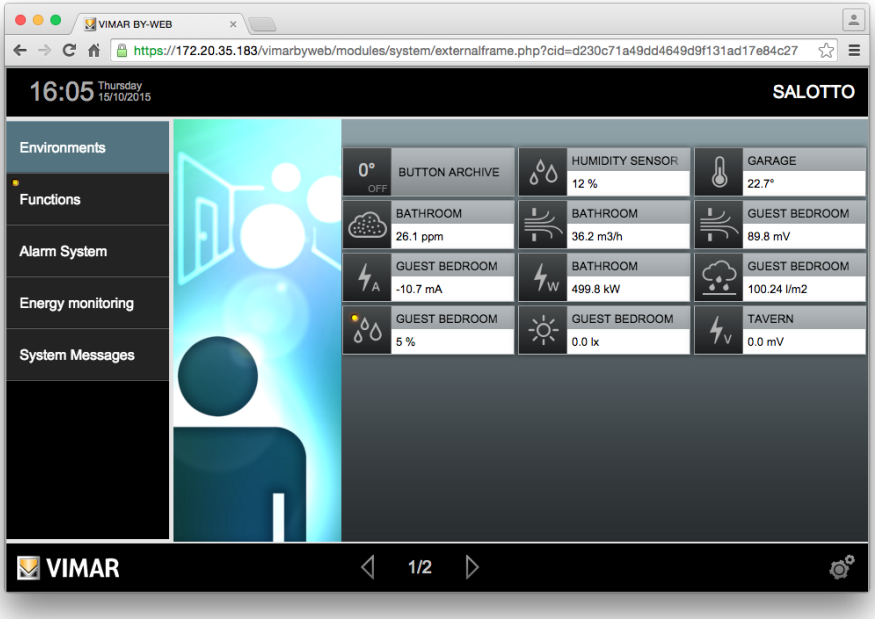
Analog inputs home automation Interface management

Each sensor is represented by a row characterized by the following elements:

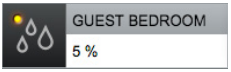
Element	Description
	Sensor icon: for each type of sensor controlled by the device was created a descriptive icon (see chapter "Types of sensors managed by device 01467"). In the icon of the humidity sensor, based on the configuration of the device, there is an indicator of the humidity alarm status (see chapter "Managing the humidity alarm").
	Numerical value of the measured data, with relative units of measurement. **Note**: The "generic" sensor does not include any measurement units. Clicking on the area where the data is displayed, the frequency of update of the data measured by the device is temporarily increased.
	Sensor descriptive text.
	Only for the humidity sensor, based on the configuration of the device, there is a button for setting the humidity threshold beyond which to send the humidity alarm (see chapter "Managing the humidity alarm").

13.3 Adding the sensors graphic widgets to the environments pages

The Web Server allows to place the sensors graphic widget on the environments pages, as shown in the following figure by way of example.



Example of widget sensor:



Note: the widget sensor does not provide the "icon only" representation, available for widgets of other types of device when they are added to an environment page in the "map" visualization mode.

The following table describes the elements that make up a sensor widget:

Element	Description
	Sensor icon: for each type of sensor controlled by the device, an icon is available (see chapter "Types of sensors managed by device 01467"). In the icon of the humidity sensor, based on the configuration of the device, there is an indicator of the humidity alarm status (see chapter "Managing the humidity alarm"). Only for the humidity sensor, based on the configuration of the device, pressing a button allows access to the widget for setting the humidity threshold beyond which to send the humidity alarm (see chapter "Managing the humidity alarm").
	Numerical value of the measured data, with relative units of measurement. **Note**: The "generic" sensor does not include any measurement units. Clicking on the area where the data is displayed, the frequency of update of the data measured by the device is temporarily increased.
	Sensor descriptive text.

13.4 Types of sensors managed by device 01467

The following table lists the parameters controlled by the device, with the corresponding measurement unit and icon assigned by default:

Quantity	Unit of measurement	Icon
Generic	none	
Generic	none	
Pressure	hPa	
Wind_speed	m/s	
Temperature	°C	
Brightness	lx	
Air_quality	ppm	
Volumetric_flow	m3/h	
Electric voltage	mV	
Electric current	mA	
Electric power	kW	
Fallen_rain	l/m2	

13.5 Managing the humidity alarm

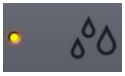
The humidity sensor provides the ability to manage an alarm caused by the exceeding of the humidity percentage threshold.

The management of this feature has to be enabled during the configuration of the device.

If this feature has been properly configured on the device, it can then be handled by the Web Server, which provides:

- Visual notification of the humidity threshold exceeded alarm.
- Ability to enable or disable the alarm management.
- Ability to change the humidity threshold beyond which the humidity alarm is notified.

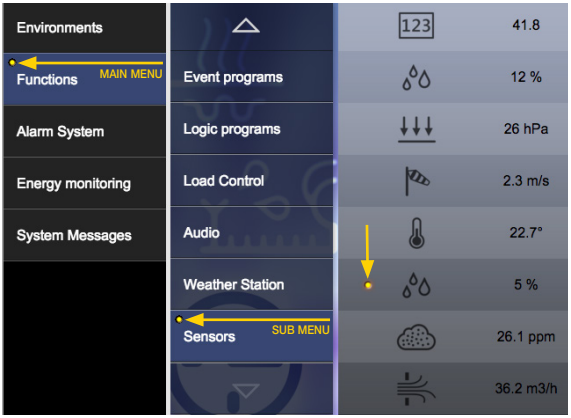
As mentioned above, the graphical representations of humidity sensors (on the Sensors page of the Functions menu and on the environments pages) provide allow to display various humidity alarm management conditions, as summarized by the following table.

Condition	Sensors Page	Environment Page	Notes
Humidity alarm management disabled on the device, or enabled on the device but disabled by the Web Server.			To enable this feature, you must change the configuration of the device carried out by the installer and enable management on the Web Server through the appropriate window.
Humidity alarm management enabled on the device, enabled on the Web Server, with inactive alarm condition.			
Humidity alarm management enabled on the device, enabled on the Web Server, with active alarm condition.			

Analog inputs home automation Interface management

In the event that at least one humidity sensor notifies the exceeding of the humidity threshold, in addition to the display of such a condition in the widget of the sensor, the alarm is also visually displayed on the "Functions" (main menu) and "Sensors" (sub menu) menu items, as shown in the following image, by way of example.

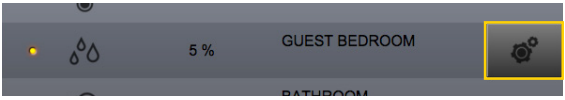
Note: the humidity threshold exceeded visual alarm is automatically reset to the normal state when the humidity value returns below the set threshold.

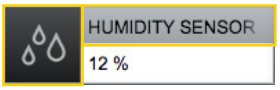


13.5.1 Setting the humidity measurement alarm threshold

To set the threshold used to manage the humidity alarm on the Web Server, click on the button in the row corresponding to the humidity measurements of the "Sensors" page, or click on the icon or description field of the widget embedded into an environment page.

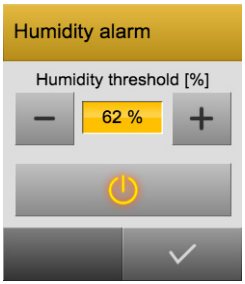
Important: This setting is available only if the humidity alarm management is enabled, at the device configuration level (by the By-me installer).



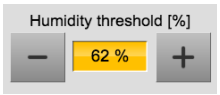


Pressing the button (or the widget area in the environment) opens a window for enabling the humidity alarm and setting the threshold, as shown in the following figure.

Pressing the button (or the widget area in the environment) opens a window for enabling the humidity alarm and setting the threshold, as shown in the following figure.



The widget elements have the following meaning:

Widget element	Description
	Button to enable/disable the humidity alarm management by the analog input.
	Setting the humidity threshold for the humidity alarm. Pressing + and - changes the value of a unit. Clicking the numeric field opens the popup for the manual input of a number with the keyboard.

13.6 Brightness sensor for automatic control of lighting of an environment

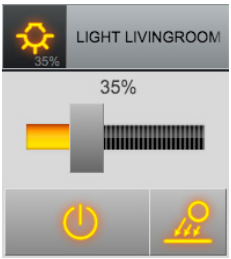
The brightness sensor can be used in combination with a dimmer actuator (01870, 14549 19549, 20549, 19529) for the automatic control of the brightness of an environment.

If this feature is enabled, the operation is as follows:

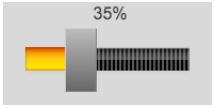
1. The dimmer slider adjusts the desired brightness (which typically is provided by the lamp controlled by the dimmer and by the natural light coming, for example, from a window).
2. If the ambient light changes, the brightness sensor will inform the dimmer of the new value to be set to ensure that the variation of natural light is compensated by the light of the lamp, thereby changing the percentage value of the dimmer.

Analog inputs home automation Interface management

The Web Server has the following widget:



The widget elements have the following meaning:

Widget element	Description
	Slider for setting the percentage brightness of the dimmer.
	Slider for setting the percentage brightness of the dimmer.
	Button to enable/disable the management of the automatic environment brightness control.

14. Managing the 4-analog outputs actuator (art. 01466)

14.1 Introduction

The device allows to control / adjust the degree of opening of the proportional motorized valves that accept command variable signals as voltage (eg. 0-10V) or current (eg. 4-20mA).

The device can be used within the By-me system in different ways, characterized by the behavior of the same in the By-me system and, consequently, by the way it is handled and displayed by Web Server 01945-01946:

- Use in the By-me temperature control system.
- Use as "extension" (remoting the value of an analog quantity).
- Use by button in the By-me lighting system.

The following sections describe the device display and control modes through the Web Server 01945-01946 of the three different operating modes mentioned above.

14.2 Use in the By-me temperature control system

In this use, the 4 analog outputs of the actuator (art. 01466) (one or more depending on the specific implementation of the system), are controlled directly by the thermostats and are not controlled directly by the user.

14.3 Use as "extension"

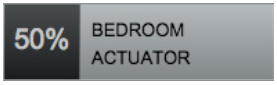
In this use, the 4 analog output actuator is used to "remote" an analog quantity, using an analog input. The Web Server displays the value of the quantity via the analog input widget.

Managing the 4-analog outputs actuator

14.4 Use by button in the By-me lighting system

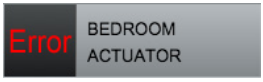
In this use, the 4 analog output actuator behaves in a similar way to a dimmer of the lighting system and also the Web Server presents it in a similar way.

On the "Lighting" page, accessible from the "Lighting" menu item in the "Functions" submenu and in the pages of the environments to which it was added, for each actuator output the following widget is presented.



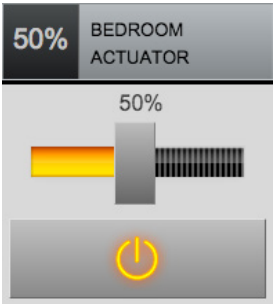
Compared to the widget of the dimmer, instead of the icon, the 4 analog output actuator (which also displays the ON/OFF status), provides for the display of the start-up percentage of the actuator. If the actuator is switched off the text reads "Off".

The device reports any malfunctions the output, which is highlighted by the Web Server as shown in the following figure:



Note: If the actuator signals a fault in the output operation, it is not possible to control the output.

Pressing the widget, which takes the form shown in the following figure, controls the actuator (a pop-up window opens).

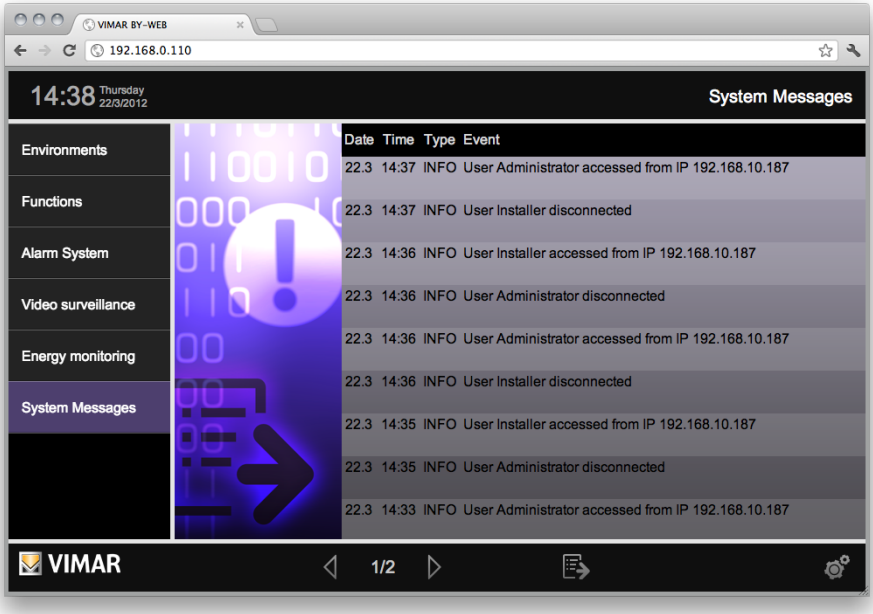


By dragging the scroll bar (slider) you can set the adjustment from 0% to 100%, while the button at the bottom of the popup allows you to turn the actuator output on or off.

The popup closes automatically after a few seconds, or you can close it by pressing the function icon. While the popup is opened, it is possible to use the additional features of the page, but you can use the main menu to access other sections of By-web.

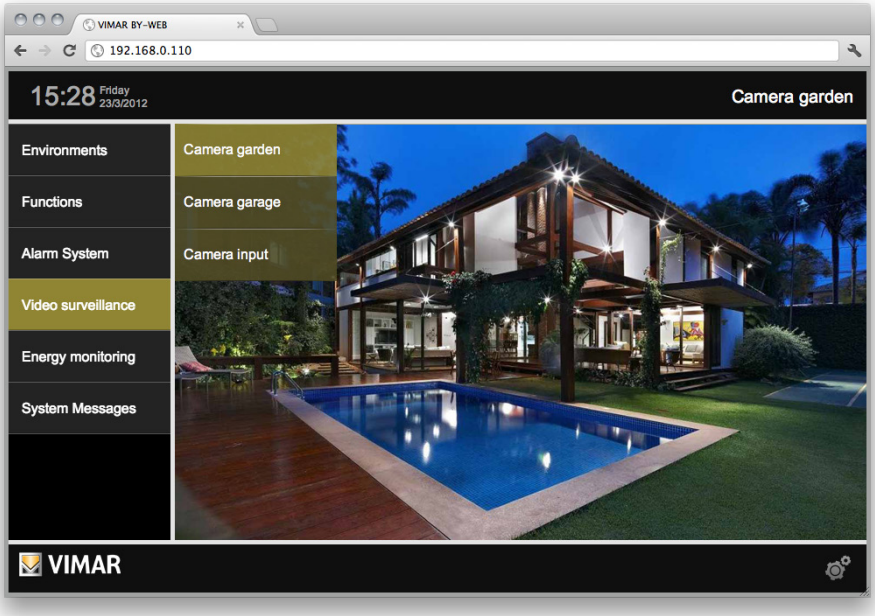
15. System alerts

The screen on this section allows you to check the history of all access to the Web Server displaying the date, time, user, user IP address and type of event (e.g. login, logout).



16. Video surveillance

Through this section you can access the display of the configured IP video streams and select the source (IP camera or video server channel) depending on the images you want to view.



Note: The same window cannot display multiple cameras simultaneously (browser tab).

IMPORTANT:
For viewing RTSP video streams, on the computer used to access the Web Server:

1. The software VLC media player by VideoLAN must be installed (refer to the manufacturer's website for installation instructions).
2. The software ByWeb Tools by Vimar must be installed (refer to chapter 12. ByWeb Tools by Vimar of the Web Server Installer Manual). This installation MUST be performed after installing the VLC software; otherwise ByWeb Toolswill have to be reinstalled after completing the installation of VLC.

17. Video messages

17.1 Introduction

The VIDEO MESSAGES section allows recordings associated with missed calls on the Vimar Due Fili video door entry system to be viewed and deleted.

17.2 Requirements

The management video messaging is only available if the following requirements are satisfied:

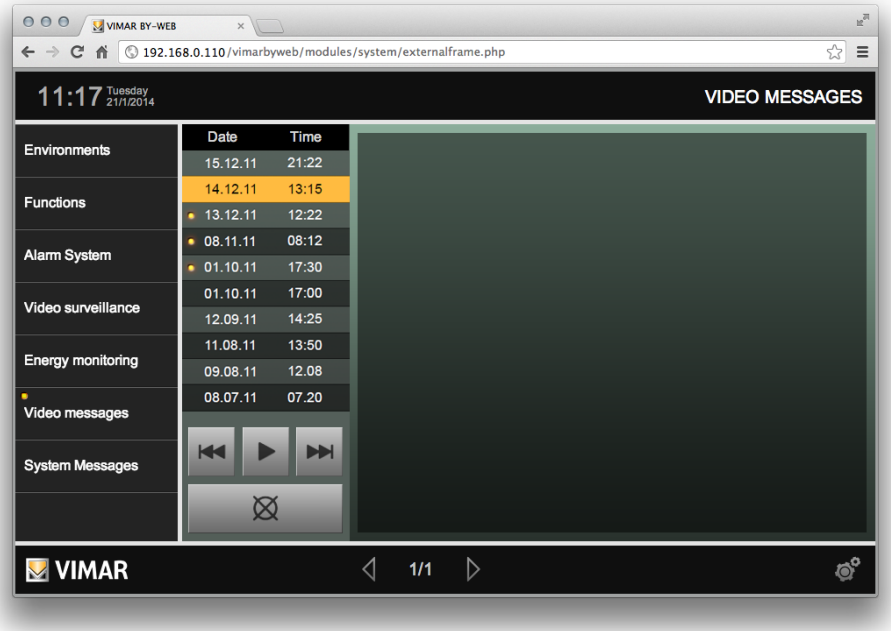
1. The presence of a Multimedia video touch screen 10in (part no. 21553) by Vimar, connected to the Due Fili video door entry system and correctly associated with the Web Server.
2. The presence of a Secure Digital memory card (SD card) in the appropriate slot of the Web Server.

Important: see the chapter regarding the management of the SD card for the Web Server.

17.3 Displaying missed calls

To access the list of video recordings associated with missed calls, press the Video messages button on the main menu.

The video messages that have not been shown are marked with a yellow sign on the left. If there is at least one video message that has not yet been shown, a yellow indicator appears next to the "Video messages" menu item in the main menu.

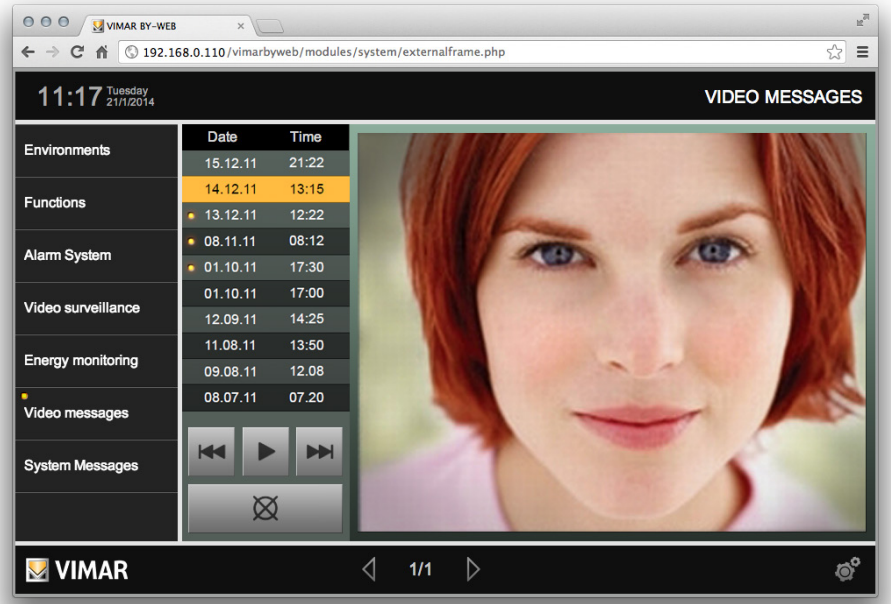


Video messages

To view the video message associated with a lost video door entry call, select the line corresponding to the desired recording and press the "play" button. To stop video playback, press the "stop" button.

To view the previous or next video, press the "back" or "forward" key respectively.

To delete the selected recording, press the "delete" button (this removes the recording from the SD memory card).



18. Multimedia Touch 10 (cod. 21553 and 21553.1)

To use the Web Server from Multimedia Touch 10 just run the home automation application.
The login will be done automatically (see the installer manual for more instructions).
From the Multimedia Touch 10 you can still login with a user other than the default one; upon logout, the classic screen appears with the all users on the Web Server and if none of these users are logged in within ten seconds, the 21553 will automatically log in with the default user

From the Multimedia Touch 10 you cannot:

- Export the list on the Alarms and Events SAI
- Export the data history of the Web Server
- Export the list of System Messages
- Change the position of the widgets for environments with "Map" Templates

Starting from software version 1.4.08, the Multimedia Video Touch Screen 10in has a section dedicated to the management of the cameras.

If a 21553 provided with that version (or later) connects to a Web Server with version 1.5 (or later), the main menu does not display the "video surveillance" entry, because the camera management takes place from the special section of the Multimedia Touch 10 application.

The "Video surveillance" menu entry is still displayed if you access the Web Server from a client other than the Multimedia Touch 10.

19. SSL certificates for HTTPS connection to Web Server 01945-01946

19.1 Introduction

Access to the web server occurs solely via HTTPS protected connection. The technologies used to guarantee this protected connection are constantly being upgraded. For this reason, for the devices used to access the web server to recognise the connection with the web server as safe and secure, it may be necessary to upgrade the software and/or firmware of the web server. Please remember however that communication with the web server always occurs in an encrypted manner in all cases. In particular, significant upgrades regarding the software elements that guarantee the HTTPS protected connection have been introduced in version 2.6 of the web server software. In the event of warnings concerning the HTTPS protected connection, ask your installer to check the upgrade status of the web server (or contact Vimar support). We nevertheless recommend you contact your installer to perform the upgrade to version 2.6 of the web server software and, where available, to perform the upgrade of the web server firmware.

19.2 SSL certificate configuration

Since version 1.12 (and subsequently in the software versions 2.5 and 2.6) of Web Server 01945-01946 were introduced improvements in the management of SSL certificates for access to the Web Server that allow:

1. Access to viewing the video messages using the By-web app for Android version 5 and later.
2. Removal of the security warning by accessing the Web Server from the browser (in any case the communication encryption has always been guaranteed).

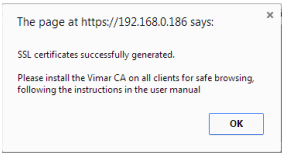
The use of the new functionality is possible if the following conditions are met:

1. Proper configuration of the network parameters of the Web Server. Refer to “Installer Manual”.

   Important: For proper SSL certificates management by the Web Server, when saving these parameters, the Web Server must be connected to the Internet.

   If the network configuration of the Web Server in the past was already carried out, you still need to confirm these parameters, by accessing the network configuration page of the Web Server and confirming the data.

   The proper conclusion of the new certificate generation is confirmed by the following message that appears in the browser:



2. Subsequent to the previous point, the execution of an operation by the user, on each client used to access the Web Server (only once for each client used).
   This procedure, which is the same for any type of client from the functional point of view, differs slightly from the practical point of view, depending on the operating system used by the client and its version.

Note: if you access the Web server through a client and the required is not carried out, access to the Web Server will take place as with previous versions of the Web Server 01945-01946 software.

SSL certificates

The operation consists in indicating Vimar as a reliable source of SSL certificates.
By way of example, the specific procedures for some of the most common operating systems of the client used to access the Web Server, are described below.

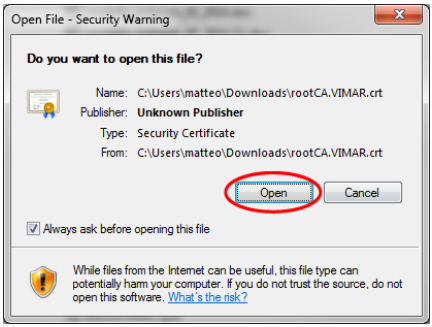
19.2.1 Windows - Google Chrome

- Log in to Windows as administrator.
- Download the Vimar CA (Certification Authority) from the following link (via the Chrome browser):

  https:// <IP address>/vimarbyweb/modules/vimar-byme/script/rootCA.VIMAR.crt

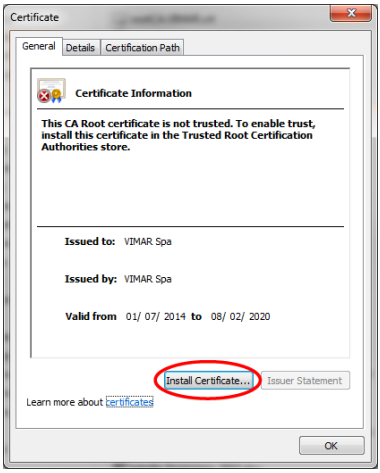
  where <IP address> is the IP address of the Web Server 01945-01946 you want to access.

  Starting with version 2.5 of the web server software, the CA certificate of Vimar can be downloaded from the web server by pressing the item rootCA.VIMAR.crt in the web server network settings page, which can be found at the following path: General settings->Setup->Network->CA link.
- Run the certificate by double-clicking the downloaded file.
- In the event that a safety warning message appears, confirm opening the file by pressing the "Open" button.

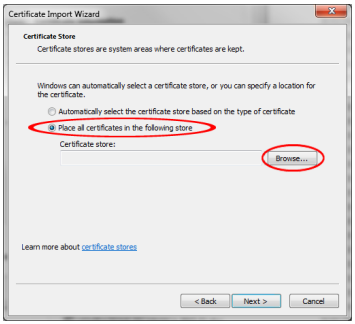


SSL certificates

- Press the "Install Certificate" button.

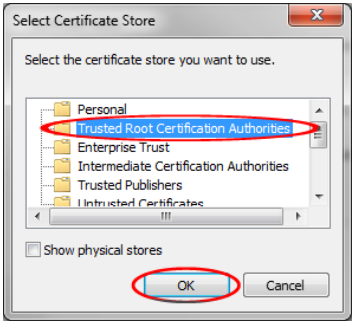


- Select "Place all certificates in the following archive" and press "Browse..."

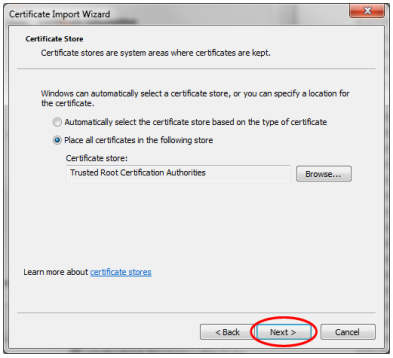


SSL certificates

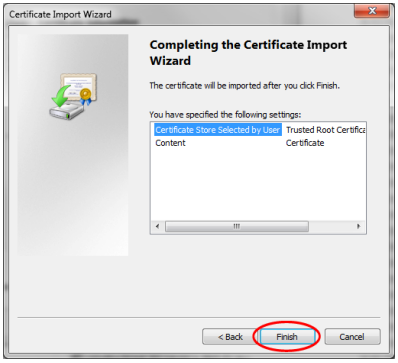
- Select the archive "Trusted Root Certification Authority" and then press "OK"



- Press the "Next" button.



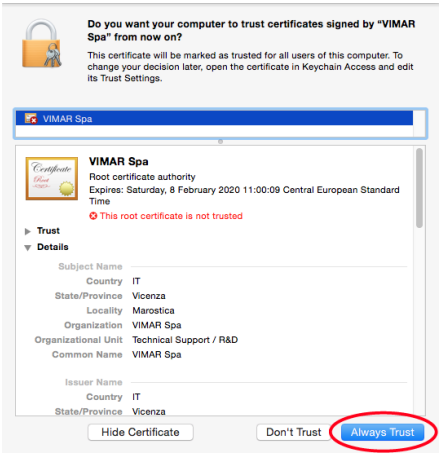
- Press the "Finish" button



- If it a window should appear to confirm the installation of the Vimar certificate, press "Yes" to complete the certificate import.
- The effect of the imported certificate will be visible at the next startup (presence of a green padlock and the word "https" with no bar).

19.2.2 Apple MAC - Safari

- Download the Vimar CA (Certification Authority) from the following link (via the Safari browser):
  https:// <IP address>/vimarbyweb/modules/vimar-byme/script/rootCA.VIMAR.crt
  where <IP address> is the IP address of the Web Server 01945-01946 you want to access.
- Run the certificate by double-clicking the downloaded file.
- In the event that a safety warning message appears, confirm opening the file by pressing the "Continue" button.
- Add the certificate to the "System" keychain (nothing prevents the installation of the certificate only to the "login" keychain; however, logging in as a different user, the operating system will no longer consider Vimar as a reliable source of certificates).

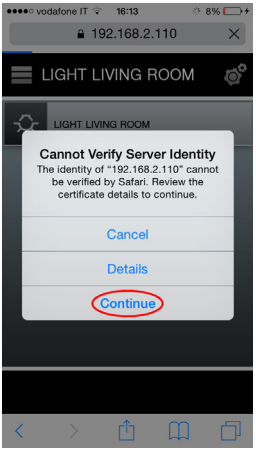


19.2.3 Apple iPhone

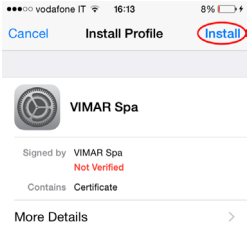
Note: the following procedure may differ slightly depending on the iOS version installed.

Nota: In iOS 10.3 and subsequent versions, and in iPadOS, when you install a CA certificate manually, it is not automatically deemed trustworthy by iOS for SSL.
To make the management by SSL active, you need to enable the SSL trustworthiness by going to Settings -> General -> Trusted Certificates and enable the certificate installed you wish to be considered as trustworthy for SSL.

- Download the Vimar CA (Certification Authority) from the following link (via the Safari browser):
  https:// <IP address>/vimarbyweb/modules/vimar-byme/script/rootCA.VIMAR.crt
  where <IP address> is the IP address of the Web Server 01945-01946 you want to access.
- The following system message appears. Press “Continue”.



- The window for installing the profile appears. Press “Install”.



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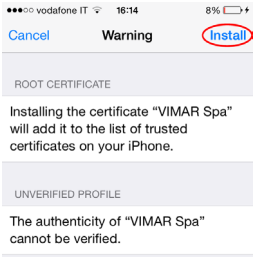
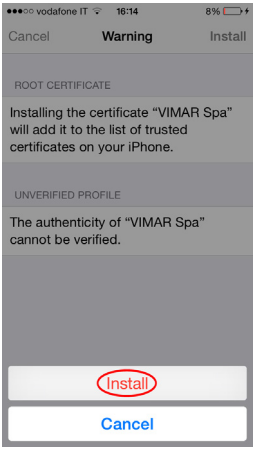
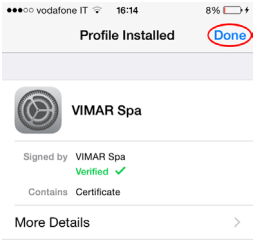
- The following window appears. Press “Install”.



- The following window appears. Press “Install”.



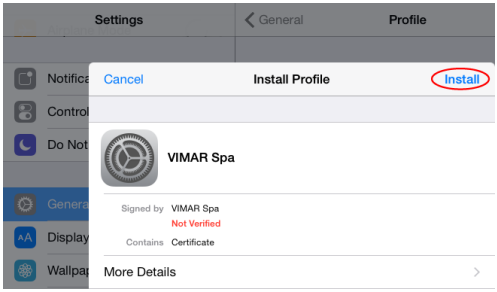
- After the successful installation of the certificate, the following window appears. Press “Done”.



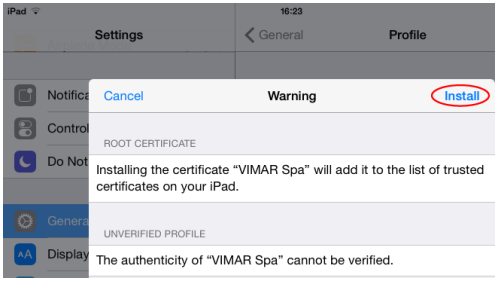
19.2.4 Apple iPad

Note: The following procedure may differ slightly depending on the iOS version installed.

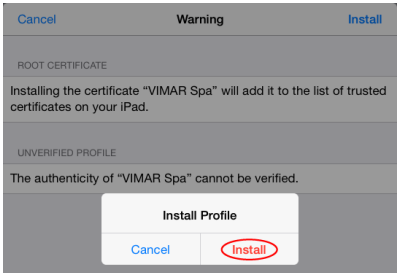
- Download the Vimar CA (Certification Authority) from the following link (via the Safari browser):
  https:// <IP address>/vimarbyweb/modules/vimar-byme/script/rootCA.VIMAR.crt
  where <IP address> is the IP address of the Web Server 01945-01946 you want to access.
- The following system message appears. Press “Install”.
- The window for installing the profile appears. Press “Install”.



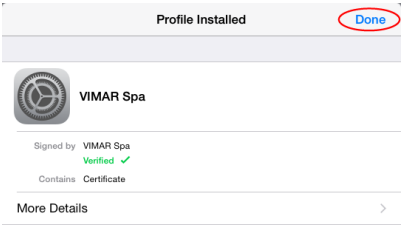
- The following window appears. Press “Install”.



- The following window appears. Press “Install”.



- After the successful installation of the certificate, the following window appears. Press “Done”.



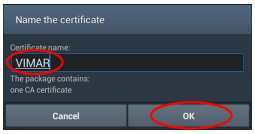
19.2.5 Android Mobile

IMPORTANT: If no security has been configured (PIN, password or sign) the Android device will prompt you to configure it before proceeding with the installation of the certificate.

Note: The procedure described below may differ according to the Android version installed.
If you are using the By-web App for Android, the CA certificate can be downloaded and installed directly from the configuration menu of the App:

1. On the “Project list” page (starting from the frontend page of the web server, access it by pressing the “back” button on your phone twice) press the top left icon “≡” and select the Settings item.
2. Select the “Install recognised CA” item: the CA procedure will begin automatically and you will be prompted to confirm access to the setting (depending on the safety settings on your phone).
3. Once you have confirmed, a window with the name of the certificate “Vimar CA” will be displayed. Press OK to proceed with installation.
4. Completion of the procedure is notified by the displaying, for a few seconds, of the message: “Vimar CA installed.

- Download the Vimar CA (Certification Authority) from the following link (via the browser):
  https:// <IP address>/vimarbyweb/modules/vimar-byme/script/rootCA.VIMAR.crt
  where <IP address> is the IP address of the Web Server 01945-01946 you want to access.
- Enter a name for the certificate (can be any text string, e.g. “VIMAR”).
  Depending on the version of Android, below the field for entering the name, you may see a drop down menu to choose the scope of the certificate: select "VPN and app."



- If not configured, a window appears prompting for the configuration of the required protection.

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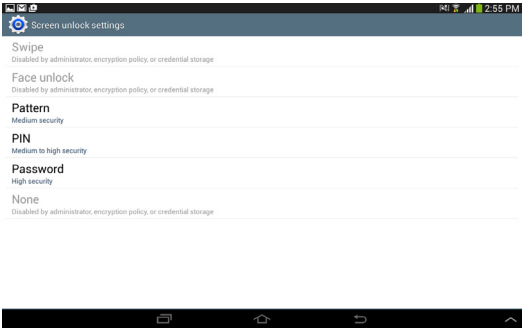
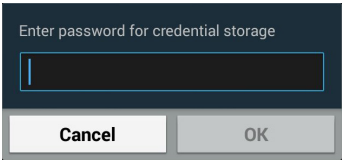
- Configure at least one protection for the device, if it is not already configured.



- The confirmation of the installation of the certificate follows.

Note: In some versions of Android (typically versions later than 4.3.x), also depending on the specific phone and configuration, after the certificate installation request, you may see an additional request for password entry, as shown, by way for example, in the following image.



Set this password to proceed with the procedure. If a password has never been set, or if the password is unknown, you should do the following:

1. Enable a screen protection (PIN, password, or sign), if not done already, and follow the import procedure of the certificate again from the beginning.
2. Refer to the phone documentation or to the information on the manufacturer's website.
3. If you are not aware of the specific configuration of the phone and the above procedures do not solve the problem, typically the problem is solved by resetting the phone to factory settings.

IMPORTANT: If no security has been configured (PIN, password or sign) the Android device will prompt you to configure it before proceeding with the installation of the certificate.

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VIMAR
Viale Vicenza, 14
36063 Marostica VI - Italy
www.vimar.com