MY HOME

Control

TECHNICAL GUIDE 06

BTicino answers

For all the technical or commercial information go to the BTicino site.

www.bticino.it

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To send a free fax forward it to

+39.02.3480708

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Item	Catalogue page	Configuration page	Techn. features page

Item	Catalogue page	Configuration page	Techn. features page

MY HOME GENERAL FEATURES

MY HOME
The home as you want it

MY HOME is a home automation system which offers state-of-the-art solutions, which are in increasing demand in the home and in the service sector.
It offers all the house-automation functions and applications concerning comfort, safety, energy saving, communication and control.

A common feature of all the MY HOME devices is that they use the same system technology, based on the digital bus, so that the various system components can be combined as the customer chooses and requires.

MY HOME

MY HOME WEB
- Services to control and manage the home at a distance

MOBILE PHONE

FIXED-LINE TELEPHONE

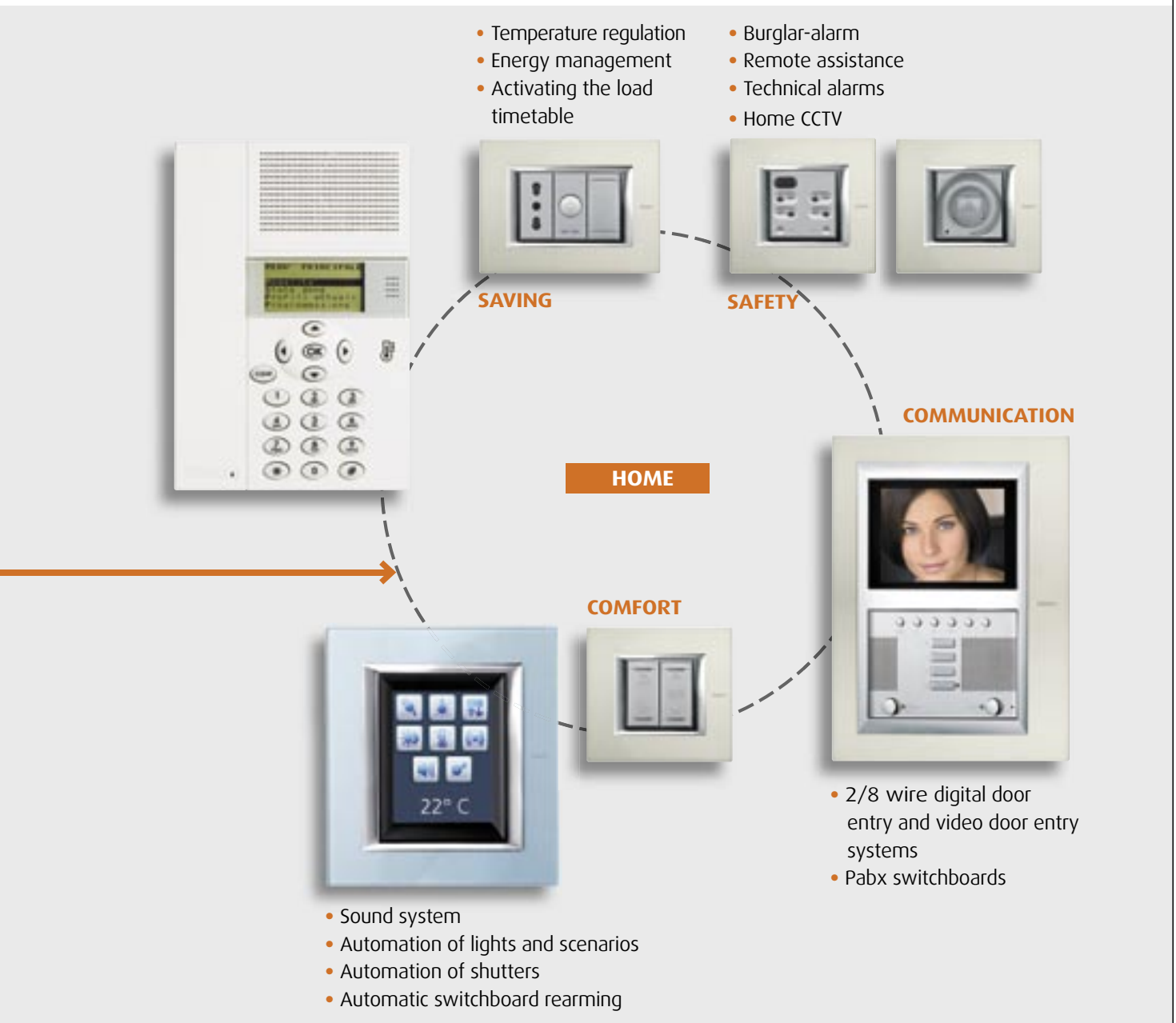
PERSONAL COMPUTER

HAND-HELD COMPUTER

CONTROL
- Web server (audio/video and GSM)
- Burglar-alarm control unit with Dialling device
- Telephone switchboard
- GSM

The installation modularity and functional integration of the various devices also allows optimisation of costs, as the user can select which applications he wants to adopt now and which he will choose in the future.

MYHOME can, moreover, communicate with the outside world by means of special devices which interact with the home through fixed-line telephones and mobile phones and/or any Personal Computer via local network or Internet.



MY HOME
The home as you want it

Today, the MY HOME system is also available in AXOLUTE styles and can cover all the domotic solutions associated with comfort, security, saving, communication and control. Furthermore, with AXOLUTE, advanced devices such as the colour Touch Screen, the VIDEODISPLAY and the VIDEOSTATION, add images to the control, thus providing the user with a simpler and more intuitive interface. The Bus technology and the configuration of the products have not changed and are common to all systems achieved so far with the LIVING, LIGHT and LIGHT TECH styles.

Totally free to choose the control

MY HOME brings you the maximum choice in selecting the control, thus enabling you to manage your own domotic system; from simple controls to controls for rooms, scenarios and local and remote monitoring.

BASIC CONTROL

Enabling and adjusting a single function with:

- standard controls
- infrared controls
- touch controls

ROOM CONTROL

Colour Touch Screen:

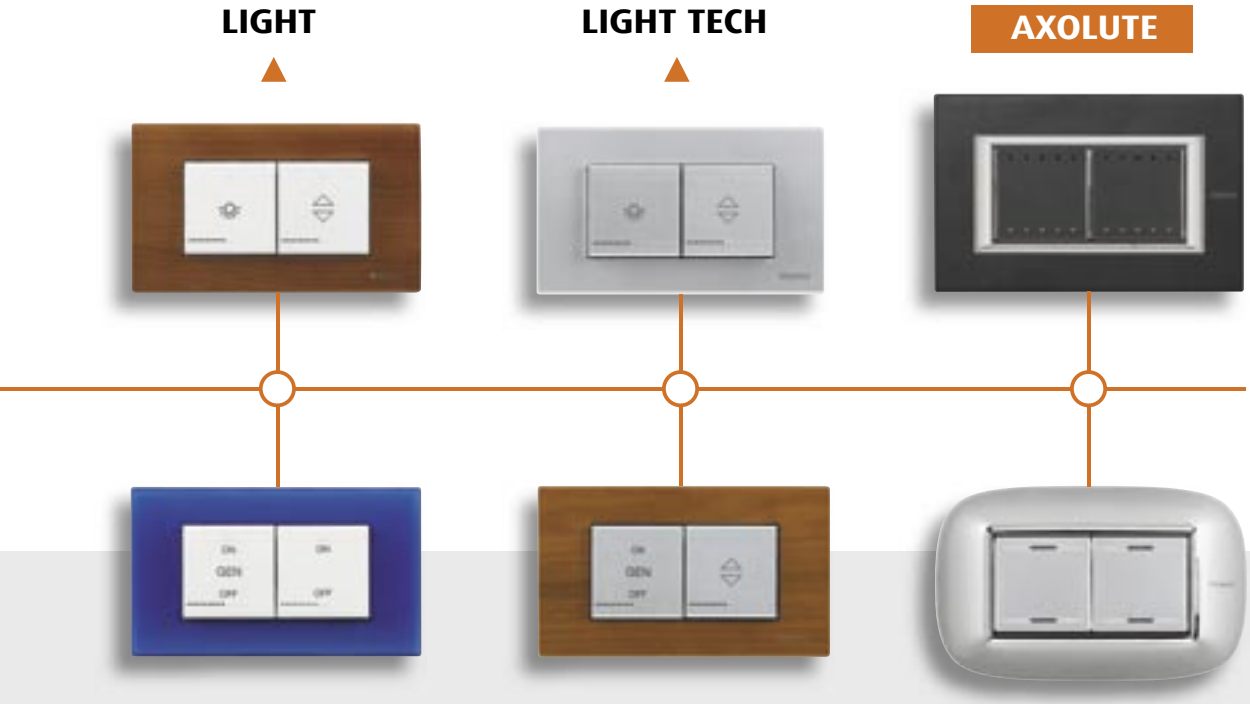
- customizable icons
- control of all functions of a single room


Standard control


Touch control


Infrared control with Burglar alarm detector Colour Touch Screen

Colour Touch Screen



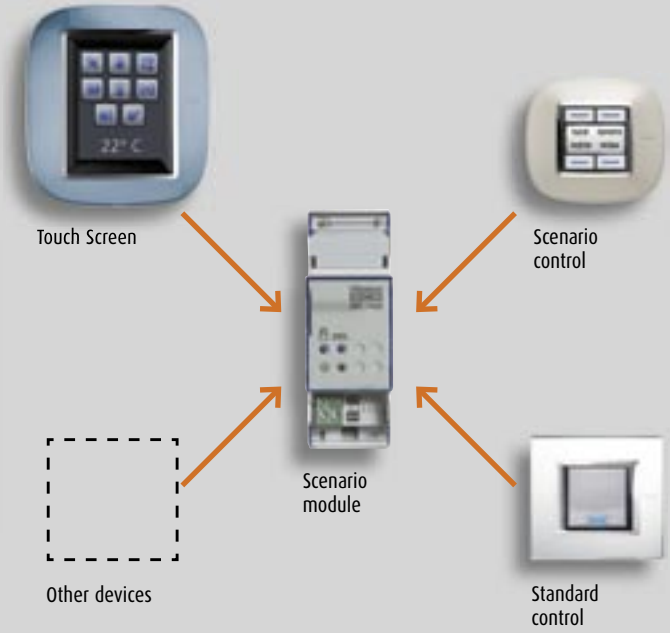
MONITORING CONTROL

- control of all system functions
- many customization possibilities
- simple and intuitive interface thanks to the use of sounds and images via the VIDEO STATION and VIDEO DISPLAY

VIDEO DISPLAY VIDEO STATION

SCENARIO CONTROL

The scenarios, complete with all the MY HOME functions, are stored in the scenario module and can be selected from different devices, depending on the user's needs.



The possible functions

SAFETY

BURGLAR-ALARM CONTROL UNIT
You can monitor the whole house or just one particular room.

GAS-STOP DETECTOR
Just a small leak and the solenoid valve stops the gas escaping.

COMFORT - AUTOMATION

TOUCHSCREEN
Just one room command for several MY HOME functions.

MOTORISED ROLLING SHUTTERS
When you wake up you can control the movement of one or more rolling shutters to give more light in the home effortlessly.

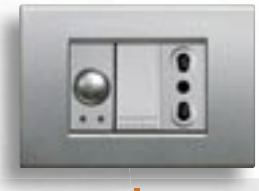
COMFORT - SOUND SYSTEM

SOUND SYSTEM AMPLIFIER
With a simple movement you can switch the radio on from anywhere in the home and listen to your favourite programme.

SAVING - TEMPERATURE REGULATION

TEMPERATURE PROBE
You can set different temperatures for each room and for every hour of the day. With savings up to 30%.

SAVING - ENERGY MANAGEMENT



SOCKET WITH ACTUATOR
To disconnect the less important loads and avoid a blackout because of an overload.

COMMUNICATION

MINIATURISED CAMERAS
A friendly eye in each room lets you check the whole house.

TELEPHONE WITH VIDEO SECTION
In each device you will find all the communication you need with the interphone, video door entry and telephone functions.

CONTROL

WEB SERVER
By means of the computer you can control and activate your home even when you are away.

MY HOME WEB

My Home Web is the complete range of services which allow the user to manage and control remotely all the My Home functions of the home at any time and with different means of communication, such as a computer connected to the Internet, a hand-held computer or a telephone (fixed or mobile).

WHAT MY HOME WEB CAN DO
The following functions can be activated with a simple telephone or by connecting to the reserved area of the Internet MY HOME portal:

Controls: to manage the lighting, heating, electrical appliances, power and all the automatic devices in the home.

Scenarios: to simultaneously activate several predefined commands such as, for example, opening the gate and switching on the driveway lights at the same time, with just one action. A scenario saved in the system can be activated by means of a scenario unit and Web house-automation scenarios. The Web house-automation scenarios are scenarios programmed in the Web pages of the MY HOME portal.

Alarms: when there is a dangerous event, the house contacts the telephone numbers and programmed addresses with a telephone call, an SMS and an e-mail with audio/video attached and automatically activates by responding to the preset actions (e.g. the automatic switching on of all the lights in the home).

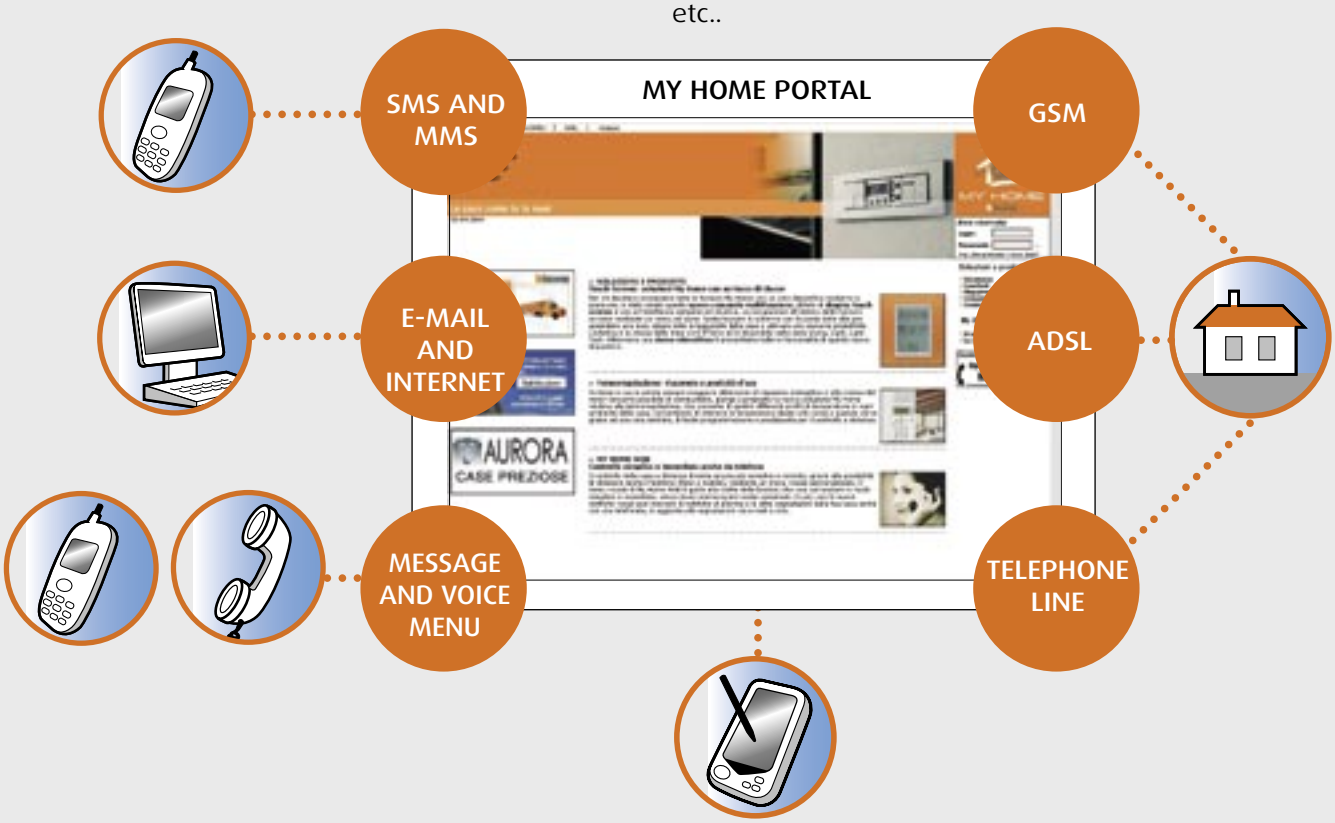
Planning: with a single order one can manage the watering or temperature control or simulate the presence of the user in the home. It will be possible to determine the actions that the house shall automatically perform during the days, hours and for the time periods chosen.

Archives: MY HOME Web records all the actions and events which have occurred in the home and makes them available for consultation by the user.

Images: : to see the rooms of the house taken by the cameras in real time.

Answering machine: an event such as a door-entry call can be notified to the user by sending SMS or e-mail messages with an audio/video attachment. The signal can also be consulted by entering the reserved area of the My Home portal.

Check: the state of the home functions can be managed to find out, for example, whether the intrusion system is switched on, the lights are on etc..



MY HOME WEB
The advantages

MY HOME WEB can check all the house-automation functions simply, customisable and conveniently. Simple because the user does not have to remember special passwords to access the service via telephone or computer. Customisable because the user can arrange schedules, WEB domotic scenarios as well as the answering machine introduction message. Convenient because thanks to the MY HOME Portal the services can be used with different means of communication such as a computer and fixed and mobile phones, regardless of the type of device used.

Devices such as the telephone actuator, the burglar alarm unit with an integrated dialling device and the telephone dialling device specifically designed for being managed via the telephone line can also be, with MY HOME WEB, controlled with a PC connected to the Internet or with voice commands and SMS's. The MY HOME Web installer can benefit from the advantages offered because, when the customer requests, he can modify the programming, the system parameters and make diagnosis and maintenance remotely.

EXAMPLE OF WEB PAGE TO CONTROL THE CAMERAS

MY HOME CONTROL

THE NEWS

MHSERVER2
2-wire audio/video control and monitoring Web server and SCS MY HOME systems

F444
ADSL Modem Router
for DIN rail

MH300
WiFi ADSL Modem Router

SECTION CONTENTS

MY HOME Control

The BTicino MY HOME CONTROL system can monitor and control your home or office in total safety and privacy thanks to the help of a Personal computer, a fixed-line or mobile phone. You can control what is happening locally or remotely by means of MY HOME portal or point-point.
Using simple WEB pages you can command the lights, switch the boiler on or off, see who has rung at the audio handset and check on the CCTV what is happening inside or outside the home.

With the BTicino control you can check what is happening for example in the children's bedroom while sitting comfortably at your office desk

LOCAL CONTROL

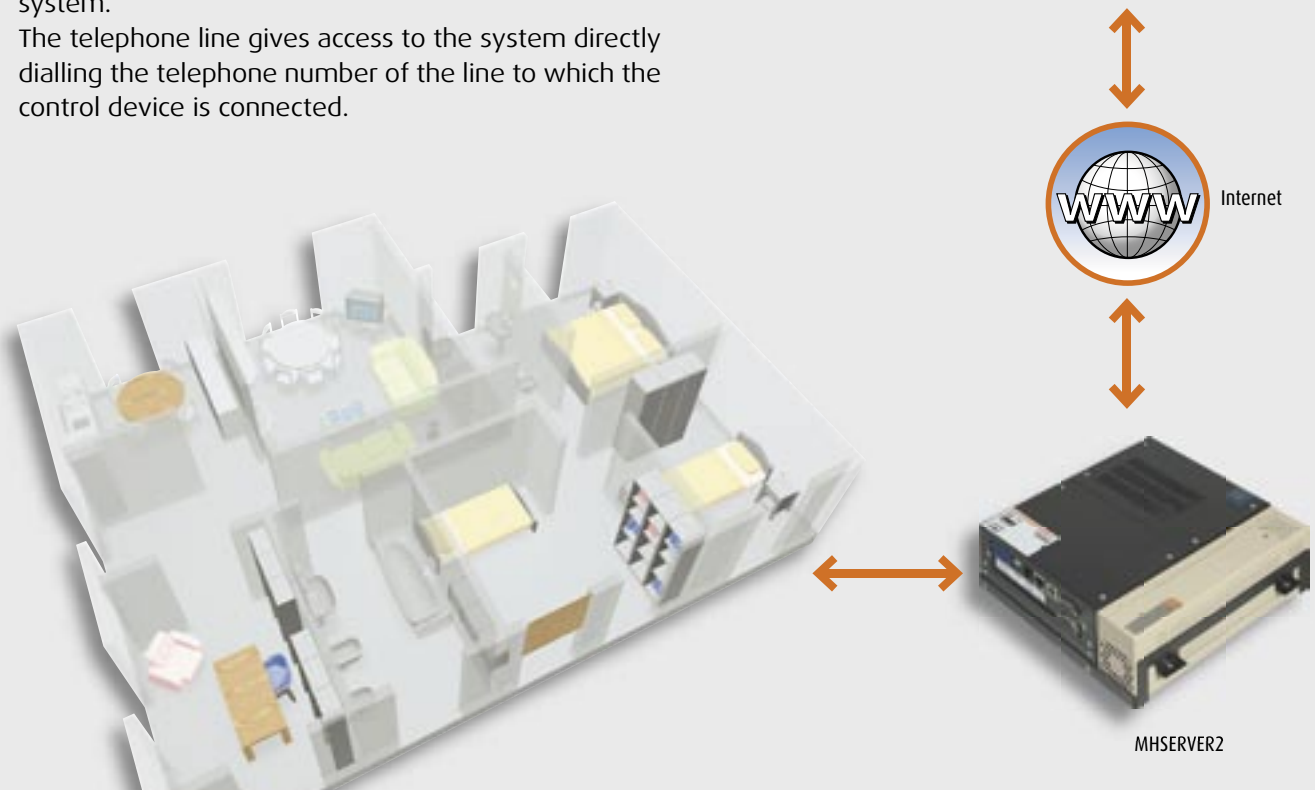
The system can command and control the devices of the MY HOME system, using a PC, inside the home itself.
Using a simple graphic interface which you can customise you can command lights and rolling shutters, see the pictures of the cameras installed in the various rooms and check any alarms which have occurred.

REMOTE CONTROL

The system can control and monitor the system remotely by means of the MY HOME portal or with point-point connection. The extremely quick, private and safe system can control your home from anywhere else, and can also implement the home CCTV functions.

MY HOME WEB:
Connection to the system by means of MY HOME portal. The line dedicated to the control system can be either with fixed IP or dynamic IP or a simple telephone line. The MY HOME portal can control your system by connecting to the **www.myhome-bticino.it.**
MY HOME WEB is the Service to control and manage the house remotely. With a simple telephone call, following the voice menu which you can customise, or connecting with a computer or with a hand-held computer to the reserved area of the MY HOME portal you have full control of the house even when you are far away. The MY HOME Internet Portal deals with transmitting orders, keeps the user always up to date on what is happening in the house and on the alarms which have been given with E-Mail, E-Mail with attachment audio/video, SMS and voice calls.

POINT-POINT CONNECTION:
Direct connection to the devices by means of telephone line, ADSL line or with mobile phone (GSM).
The ADSL line gives access to the MY HOME system by means of the Internet connecting directly to the fixed IP address of the line dedicated to the control system.
The telephone line gives access to the system directly dialling the telephone number of the line to which the control device is connected.



MY HOME Control

FUNCTIONS PERFORMED BY THE DEVICES

	ADSL		
	ITEM MHSERVER2	**ITEM F452V**	**ITEM F452**
			
FUNCTIONS			
Automation **- lighting ON/OFF** **- rolling shutters UP/DOWN**	*	*	*
Burglar alarm	*	*	*
Energy Management	*	*	*
CCTV	* max 86 cameras + 1 Entrance panel camera (connecting the MHSERVER to a 2 wire digital video door entry system) Display the pictures in black and white and colour	* Max 4 cameras connected directly to the F452V Display of the pictures in black and white	
Temperature regulation	*	*	*
Sending e-mail messages following instrusions and technical alarm	*	*	*
Sending an SMS following specific events, requestfor current state, alarms	* Only with MY HOME portal	* Only with MY HOME portal	* Only with MY HOME portal
Sending voice calls in case of burglar intrusion and technical alarm	* Only with MY HOME portal	* Only with MY HOME portal	* Only with MY HOME portal
Sending e-mail with attachment in case of burglar intrusion and technical alarm	*	*	
Video door entry answering machine: saving and sending the message and pictures recorded by the entrance panel with e-mail	*		

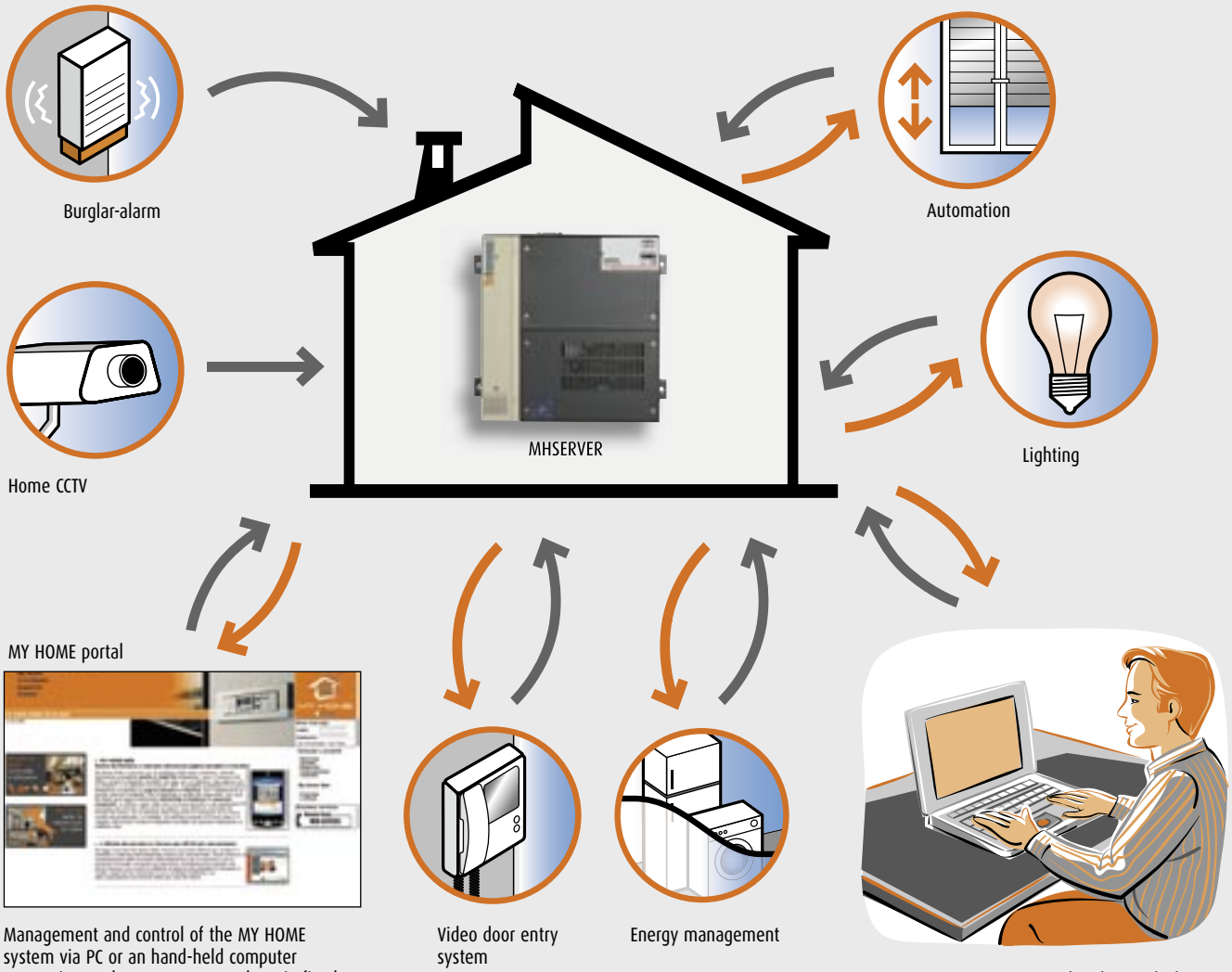
GSM	GSM + PSTN	ANALOGUE TELEPHONE LINE (PSTN)	
ITEM MHGSM	**ITEM 3500GSM**	**ITEM 3500** **ITEM 3500N**	**ITEM F461/2**
			
*	*	*	* Control of single electric loads
*	*	*	
*	*	*	
*	*	*	
	* Only with MY HOME portal	* Only with MY HOME portal	
*	* Only with MY HOME portal	* Only with MY HOME portal	
	*	*	

WEB Server

My Home can command and control all the combined functions in the home using a PC connected to a local network or to the Internet or through the service MY HOME WEB (with a PC connected to the Internet, an hand-held computer, a fixed-line or a mobile phone).
The PC can be connected locally or remotely.
The control is performed using the device called Web Server which can work remotely on My Home by means of icons displayed with web pages which can be consulted with a standard navigation program (browser).

All the functions in the home (automation, burglar-alarm, etc.) lead to the Web Server, by means of the My Home system bus: it is connected to the outside world by the Ethernet network or by connection via modem over a telephone line.
From any remote PC the user can operate and control the My Home systems as well as, for example, checking the home by activating the cameras after a burglar-alarm event has been signalled.
The control web pages are personalised and the connection parameters configured by means of specific software supplied with the Web Server.

MY HOME FUNCTIONS WHICH THE WEB SERVER CAN MANAGE



Management and control of the MY HOME system via PC or an hand-held computer connecting to the MY HOME portal or via fixed-line or mobile phone following a voice menu which can be customised

Video door entry system

Energy management

Monitoring, command and control of the system by means of web pages and/or management programs

WEB Server MHSERVER2

This device can control and supervise a My Home system installed in the home or office, by means of a Personal Computer connected to a local network or to the Internet or via the MY HOME WEB service (with a PC connected to the Internet, an hand-held computer, a fixed-line or a mobile phone) and can directly interface with a 2 wire video door entry system.

GENERAL FEATURES

The Web Server can be connected to the control PC by modem and/or local data network or Internet. Using a Personal Computer with commercial browser (e.g. Internet Explorer®, Netscape, Opera), the user can connect locally or remotely with the Web Server and, by means of Web pages which can be personalised with icon menus and command pushbuttons, perform the following operations:

- supervise and/or command the Automation (management of loads, lights, shutters, etc.) and Energy Management systems;

- supervise the Burglar-alarm system by receiving status messages (alarm on the system or no alarm signals);

- activate the cameras in the video door entry system to view the picture taken in black and white or colour, being able to alter the picture quality, the shot and the zoom.

- display of the pictures and listening to the audio messages sent to the Web Server from the 2 wire audio entrance panel when the "Video door entry answering machine" function is active.

The audio messages and the pictures can also be sent via e-mail to an electronic mail address which can be configured with the TiServer program. One can also receive an e-mail message with picture attachments, in the mailbox, to signal that events have occurred in the burglar-alarm system (intrusion alarm, technical alarm, etc.).

If the MY HOME WEB service is activated the notifications are also given by sending SMS and voice calls.

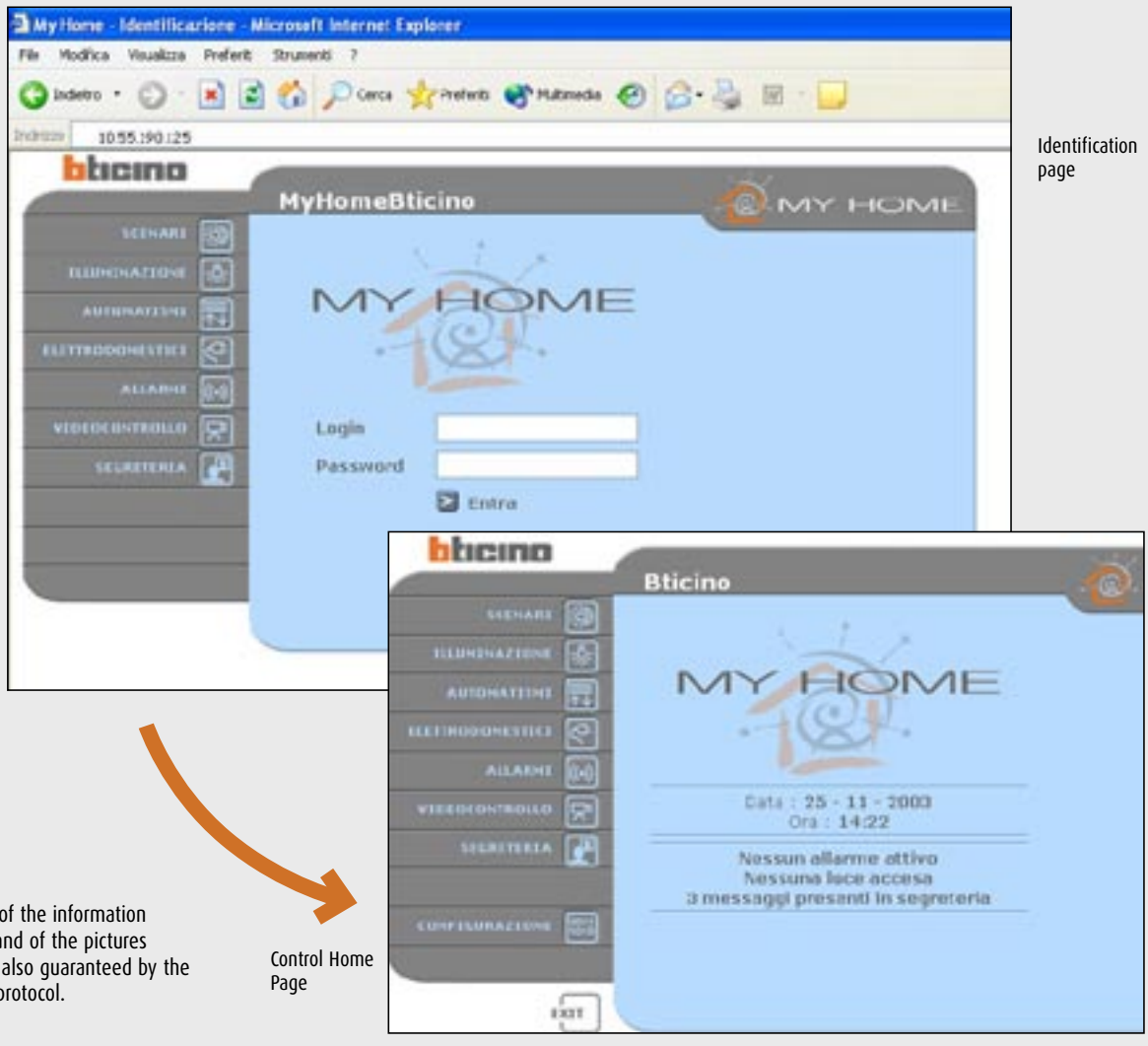
As an alternative to the Web pages, as an alternative to the Web pages, with the aid of the MHVISUAL programme, it is possible to control lights and automation, monitor the Burglar alarm system, control cameras and manage/force the load status of the energy management. With programmes such as Virtual Switch, SCS Action, SCS Action Server and Visual SCS programs installed on a Personal Computer, the Web Server can supervise and control the Automation system (actuations ON/OFF to command lights and/or rolling shutters up/down) by means of icons.

WEB Server MHSERVER2

The Web Server can only connect one user with the My Home system; this is fundamental to guarantee the confidentiality, the coherence and the univocity of the operations performed.
Access to the system command pushbuttons is conditional on passing an "identification page", which asks for a login (identification name) and a password known only to the user.
If the identification is successful the list of all the functions which can be activated and defined when programming the Web Server with the TIMHSERVER2 software can be displayed.

Two types of user can access the Web pages:
- administrator
- user

The administrator, as well as navigating in the same pages as the user, can access the CONFIGURATION function and define certain Web Server parameters, such as the number of pictures to be saved in the video door entry answering machine, the e-mail address to which alarm signals and/or messages in the answering machine, login and password for access to the pages as user, date, time and time zone and display language of the WEB pages. With control by means of MY HOME WEB service the access is from the MY HOME portal via a double identification.

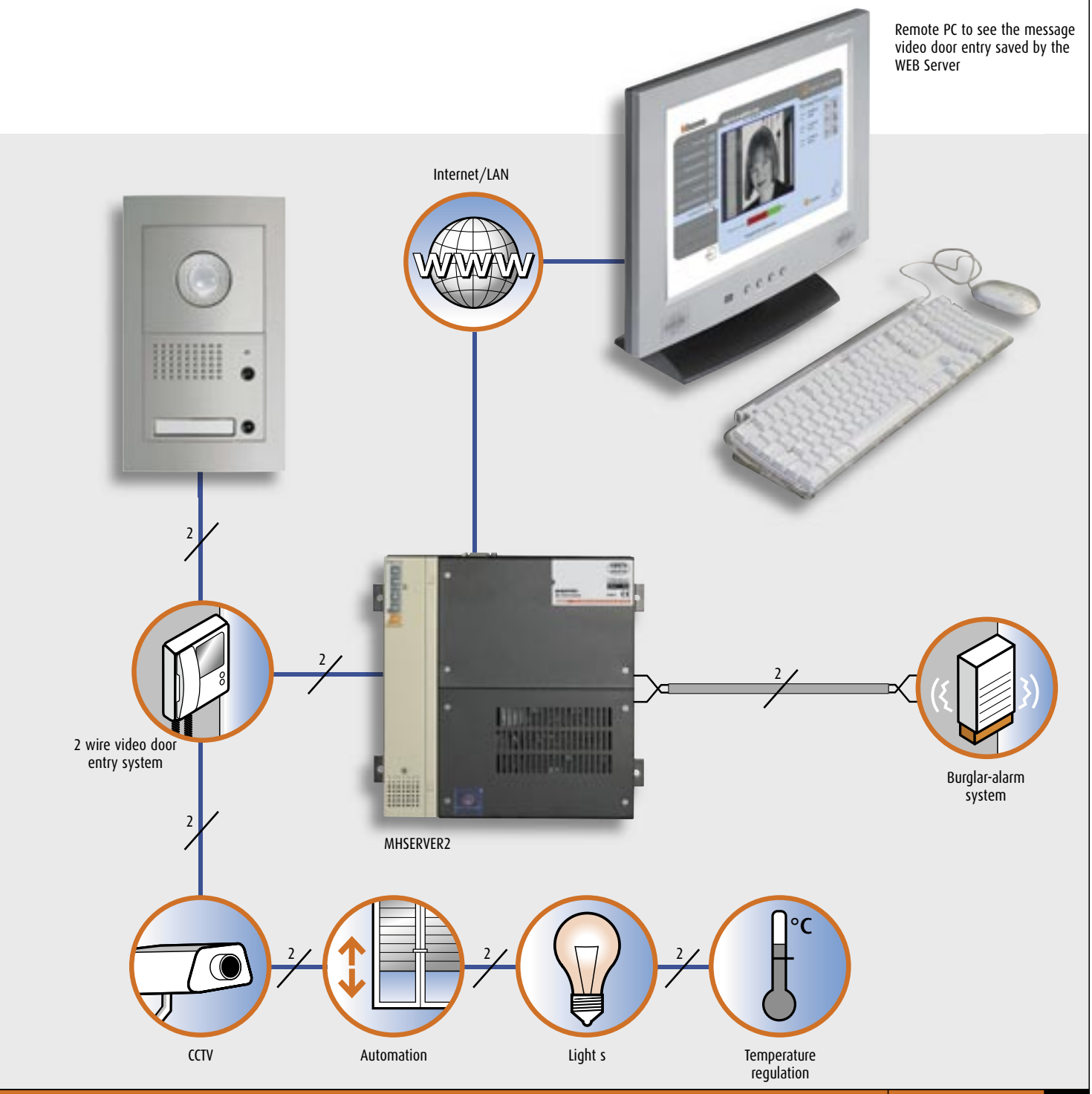


Identification page

Control Home Page

The privacy of the information exchanged and of the pictures displayed is also guaranteed by the SSL 128 bit protocol.

EXAMPLE OF THE "VIDEO DOOR SYSTEM ANSWERING MACHINE" DISPLAY

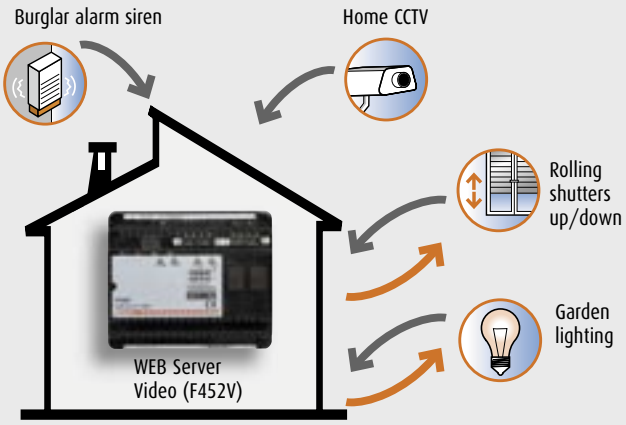


WEB Server
F452 and F452V

These devices can control and manage a My Home system installed in the home or office, by means of a Personal Computer connected to a local network or to the Internet or via the MY HOME WEB service (with a PC connected to the Internet, an hand-held computer a fixed-line or a mobile phone).
The Web Server can be connected to the control PC by modem and/or local data network or Internet.
Using a Personal Computer with commercial browser (e.g. Internet Explorer® 5.5), the user can connect locally or remotely with the Web Server and, navigating by means of Web pages which can be personalised with icon menus and command pushbuttons, perform the following operations:

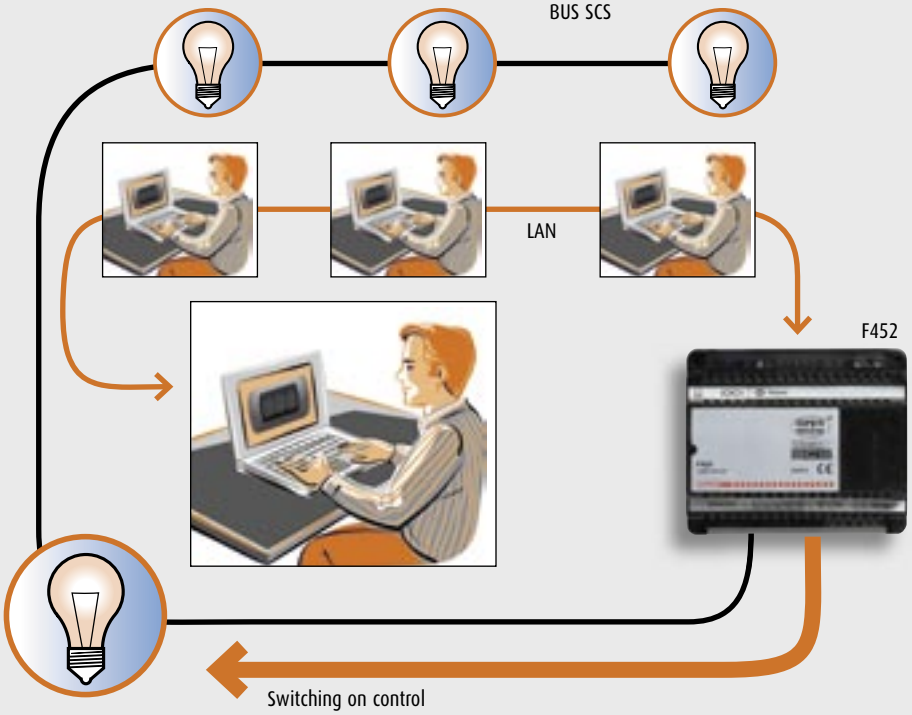
- supervise and/or command the Automation (management of loads, lights, shutters, etc.), Energy Management systems and Temperature control;
- supervise the Burglar-alarm system by receiving state messages (alarm on the system or no alarm signals);
- with video Web Server Item F452V display the black and white pictures from one of the cameras (maximum 4) connected sent to the Web Server itself. The user can alter the quality of the picture, by adjusting the brightness, the control and the zoom.

As an alternative to the Web pages, as an alternative to the Web pages, with the aid of the MHVISUAL programme, it is possible to control lights and automation, monitor the Burglar alarm system, control cameras and manage/force the load status of the energy management. With programmes such as Virtual Switch, SCS Action Server and Visual SCS programs installed on a Personal Computer, the Web Server can supervise and control the Automation system (actuations ON/OFF to command lights and/or rolling shutters up/down) by means of icons.
The Web Servers can also send messages notifying about intrusions and auxiliary alarms detected in the My Home system to the user electronic mailbox.




F452


F452V



If the MY HOME WEB service is activated the notifications are also given by sending SMS and voice calls. Access to the system command pushbuttons is subordinate to correctly filling in an "identification page", which requires a login (identification name) and a password known only to the user.
If the identification has been successful you can display the list of all the types of system command and monitoring functions, defined with the TiServer program.

In the WEB page you can also set the clock, date, time band and the display language of the WEB pages themselves. The e-mail addresses to send notification messages if there has been an intrusion or technical alarm must instead be programmed by means of Software.
When controlling by means of the MY HOME WEB service access is from the MY HOME portal via a double identification.

Identification page

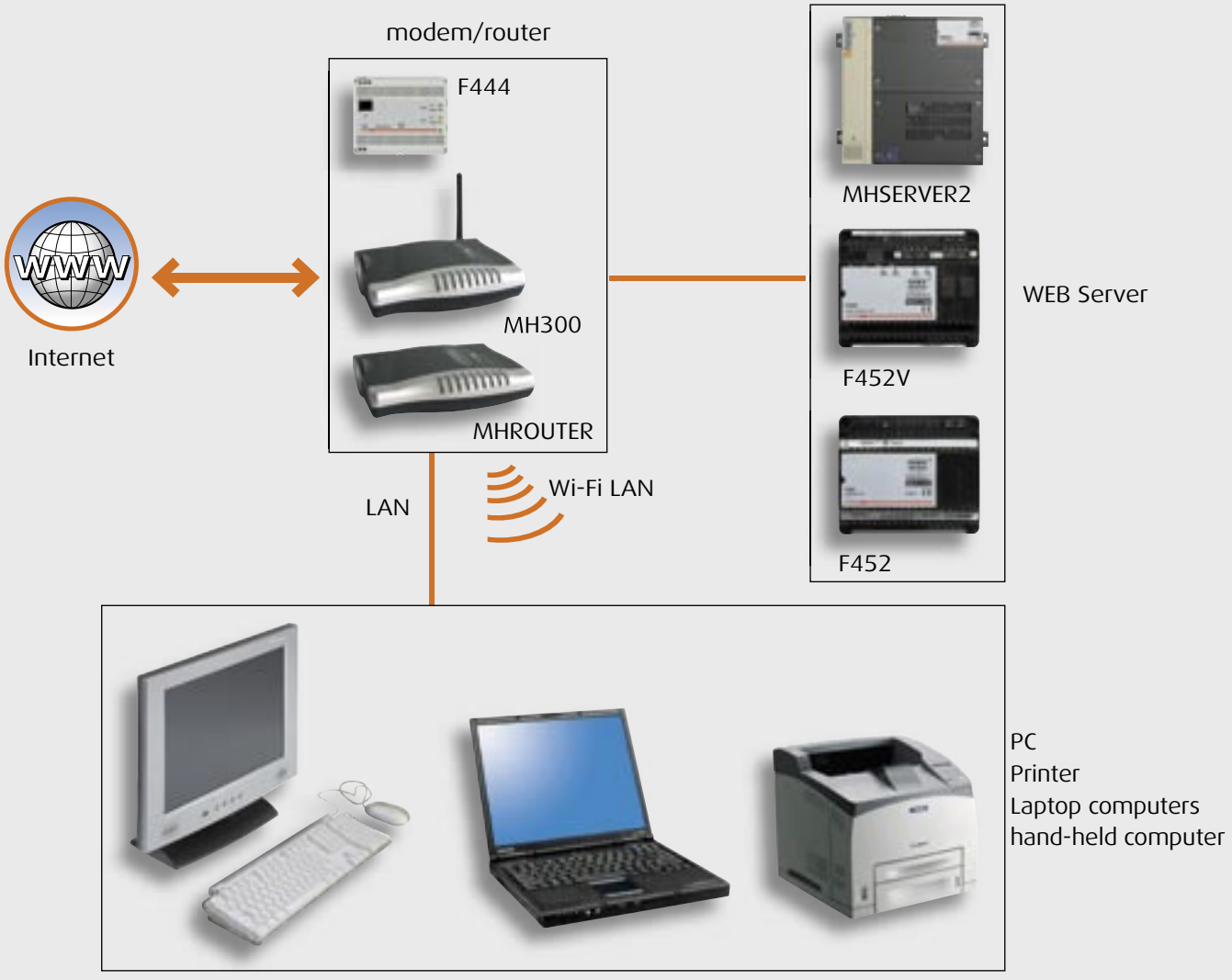
Control Home Page

ADSL Modem Router

ADSL Modem routers are devices which allow you to connect the Web Server to an ADSL line.
Modem Routers must be programmed with a special software or through Web pages which can be selected from the Browser in use.

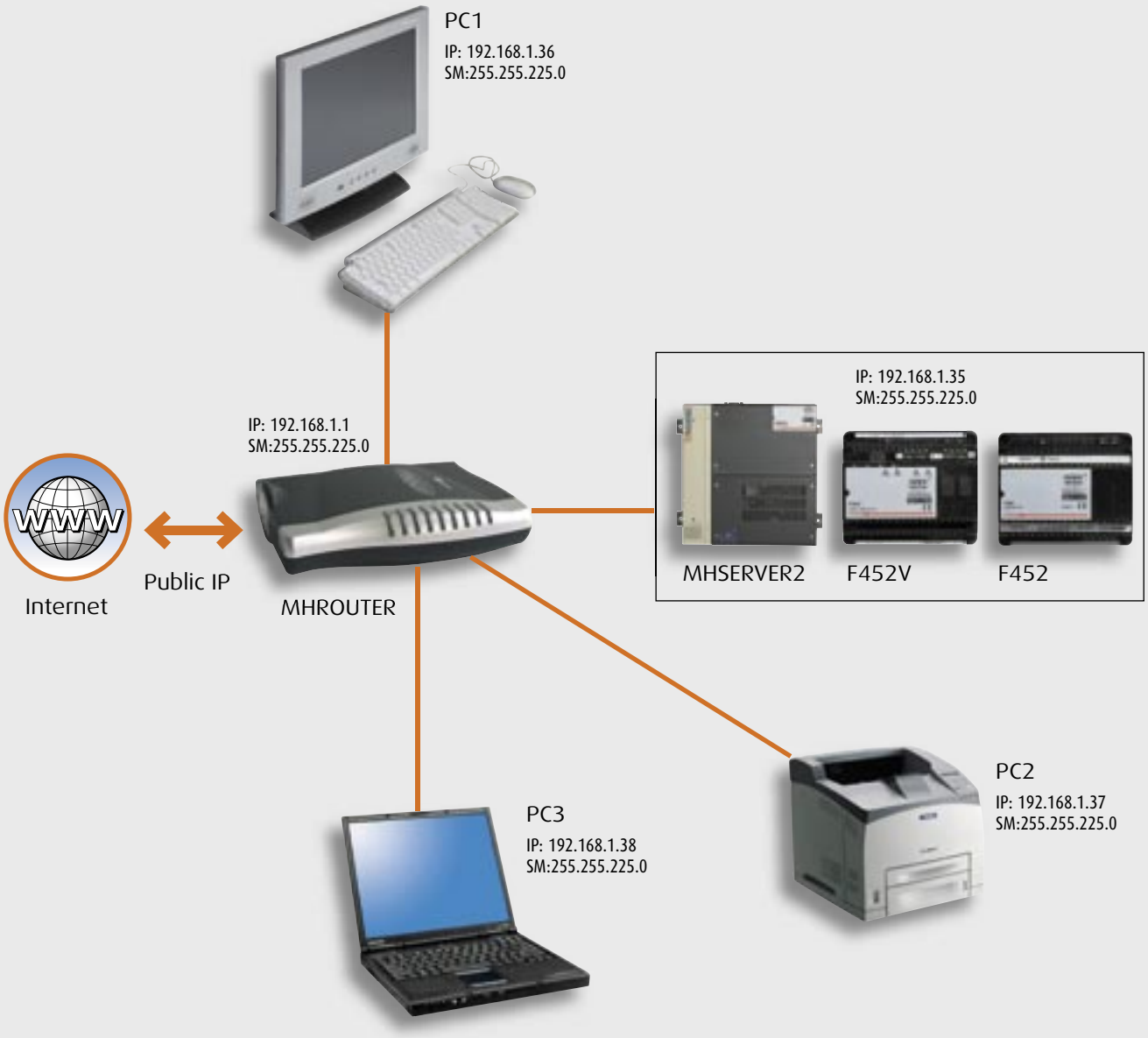
Bticino ADSL Modem routers also allow you to create a LAN network or a Wi-Fi LAN network within the system.

ITEM	ADSL line connection	LAN	Wi-Fi LAN
MHROUTER	*	* 4 DOORS	–
MHROUTER + MH301	*	* 3 DOORS	*
F444	*	–	–
F444 + C9544	*	* 5 DOORS	–
F444 + MH301	*	–	*
MH300	*	–	*



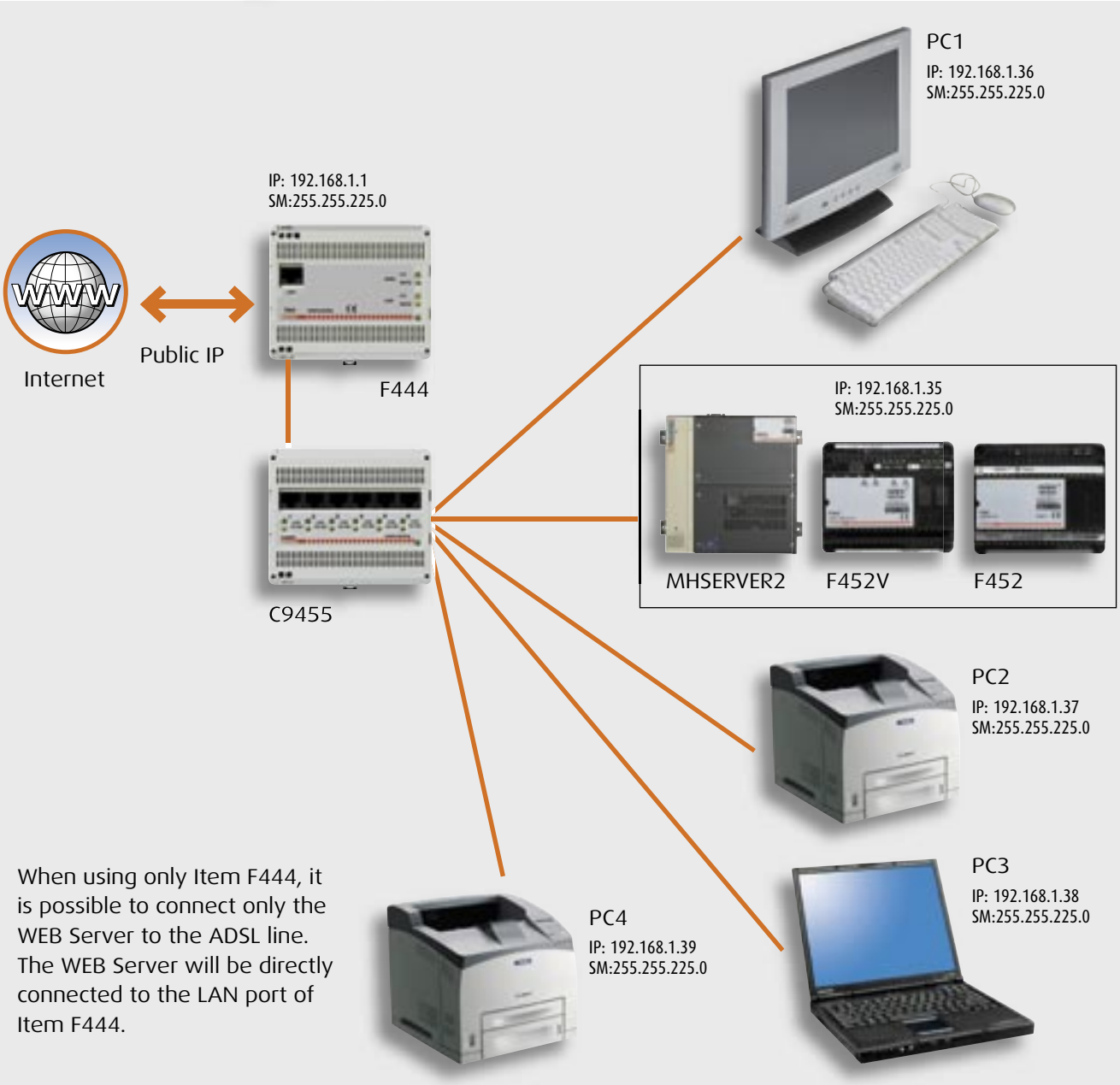
Modem Router ADSL MHROUTER

THE MHROUTER can connect the MY HOME system to the MY HOME portal. To use the MY HOME WEB service connect MHSERVER, F452 or F452V to a fixed IP or dynamic IP ADSL line by means of a correctly configured MHROUTER.
It has a 4 port 10/100 Switch for the network connection of PC or printers without using more components.
It can be configured via browser or by means of the dedicated configuration program supplied by BTicino with the item.



F444
ADSL Modem Router

The F444 is a DIN rail ADSL Modem router which allows you to connect the system to the portal MY HOME. In order to use the MY HOME WEB service, it is necessary to connect the WEB Server to an ADSL line (fixed or dynamic IP) through an appropriately configured F444 Modem router.
The F444 can be configured with a browser or through a special configuration program supplied by Bticino (included in the item). In order to connect PCs or printers to the network, it is necessary to use the DIN rail (Item C9455) external hub-switch with the F444.



When using only Item F444, it is possible to connect only the WEB Server to the ADSL line. The WEB Server will be directly connected to the LAN port of Item F444.

MH300
ADSL Modem Router

The MH300 is a Wi-Fi ADSL Modem router which allows you to connect the system to the MY HOME portal.

In order to use the MY HOME WEB service, it is necessary to connect the WEB Server to an ADSL line (fixed or dynamic IP) through an appropriately configured MH300 Modem router.
The MH300 can be configured with a browser or through a special configuration program supplied by Bticino (included in the item).

When using PCs (fixed or portable) without the Wi-Fi function, use:
- USB Wi-Fi Adapter MH302 for fixed PCs

- PCMCIA/Wi-Fi Adapter for Laptops MH303

Modem Router ADSL MH301

The MH301 is a Wi-Fi access point which allows Wi-Fi connection to systems in which a Bticino Modem router is already installed.

The MH301 must be configured before being used in the system.
The configuration is achieved through the browser.
The MH301 can also be used as a "repeater" to create Wi-Fi networks in multi-floor houses.
For this application, an MH301 is required for each floor of the house.
All MH301s must be wired with a LAN cable to the Modem router or Wi-Fi Modem router used for the Internet connection.

LAN

LAN

When using PCs (fixed or portable) without the Wi-Fi function, use:
- USB Wi-Fi Adapter MH302 for fixed PCs

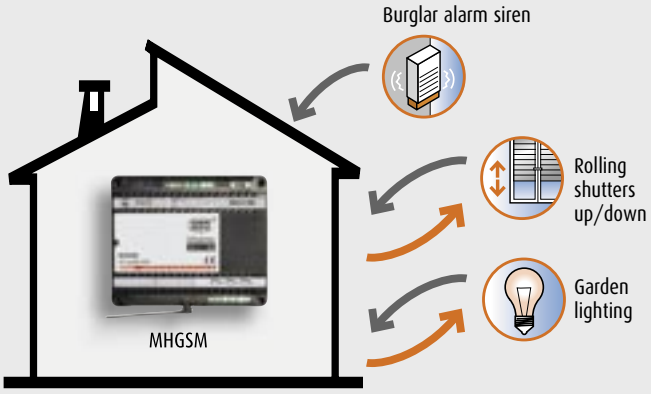
- PCMCIA/Wi-Fi Adapter for Laptops MH303

MHGSM

The device can control, command and monitor your house by means of a mobile phone. By means of SMS or WAP navigation protocol (Wireless Application Protocol) you can:
- Switch lights on or off
- Operate the automatic devices like rolling shutters, shutters, blinds or gates
- Operate/switch off the house electrical appliances
- Manage the priority of loads to optimise consumptions, to prevent the tripping of the main switch
- Activate house-automation scenarios
- Manage alarms from the intrusion system
- Manage technical alarms like control of Gas leak, flooding or remote assistance.

The SMS or WAP communication is two-way because the user can command the MHGSM remotely and the system gives a warning if there is alarm or a command is performed.

MHGSM



opening control

SMS or WAP pages

gate opening control

reply that opening has occurred

BUS SCS

Burglar alarm control unit with dialling device

The telephone dialling device is a device of the MY HOME home automation system, which can automatically dial the telephone numbers previously set and forward one or more pre-recorded messages on the normal telephone line (or GSM if 3500GSM). It allows two-way communication between the user, the burglar-alarm system and the automation system. The programming and the remote use are password (PSW) protected. The PSW is made up of 5 numeric characters and can be customised by the user; if it is not modified it is 12345. The password (PSW) must also be entered during an alarm call to send the commands. The burglar-alarm control unit with combined telephone dialling device performs the same functions as the telephone dialling device also combining the burglar-alarm functions.

Its functions can be divided into 4 categories:

ALARM MANAGEMENT
When the burglar-alarm system detects an alarm, it activates to call the numbers set specifying the type of alarm detected;

AUTOMATION
Following events detected by the burglar-alarm system, it can determine the automatic operation of other devices in the home;

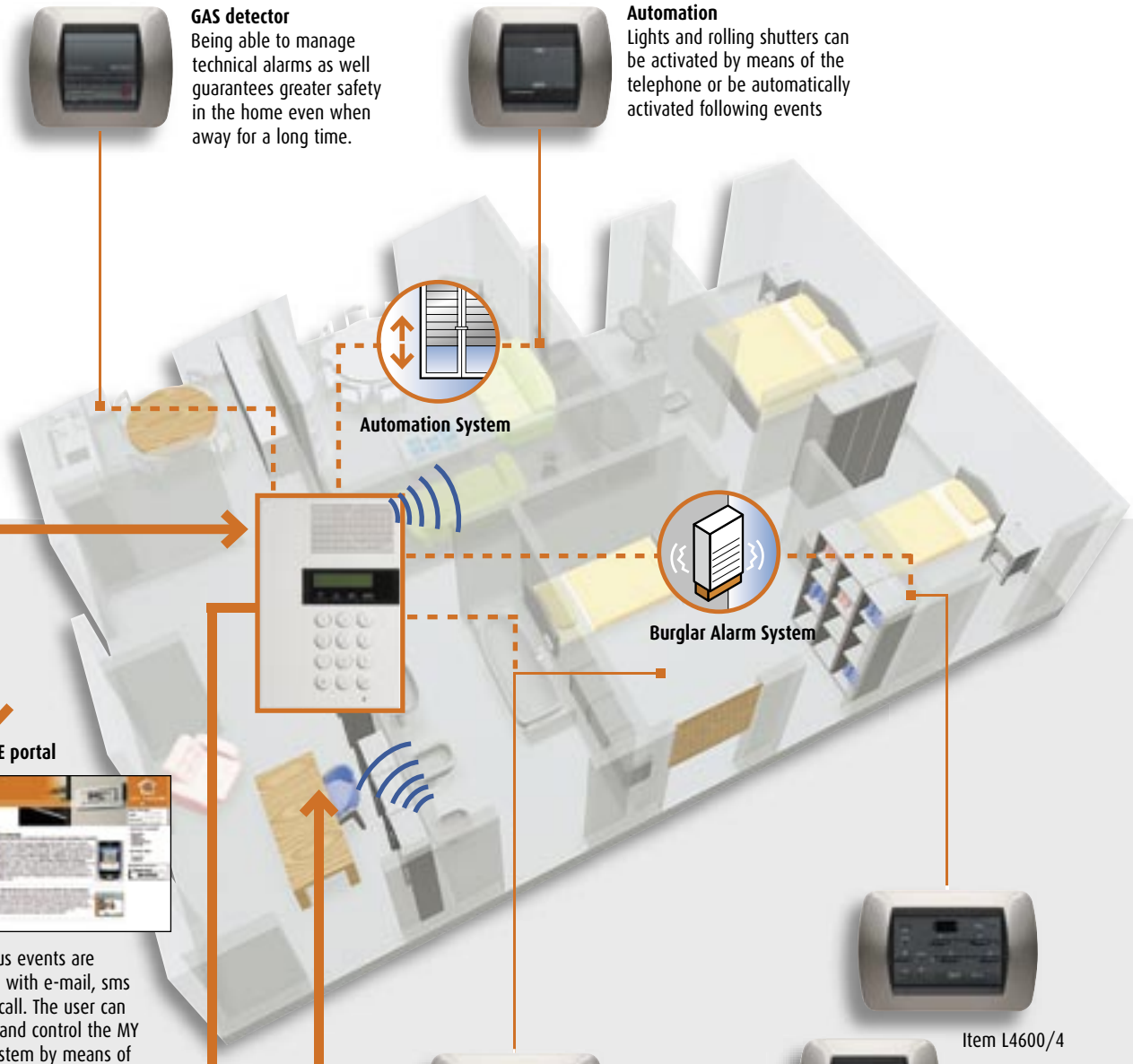
ROOM MONITOR
When there is an anti-intrusion alarm it can listen to the room and give messages in the rooms controlled by the system;

Burglar alarm control unit with dialling device
item 3500, 3500N and 3500GSM
Telephone dialling device
item N4075

TELEPHONE COMMANDS
The devices installed in the home can be commanded using the fixed-line or the mobile phone by using predefined codes or via the MY HOME WEB Service (with a PC or an hand-held computer connected to the Internet, a fixed-line or a mobile phone).

MAIN FUNCTIONS
The telephone dialling device:
- allows two-way communication between the user, the burglar-alarm system and the automation system;
- when there are particular events such as an alarm (example: intrusion alarm) or system fault, it automatically calls the telephone numbers previously set, specifying by means of pre-recorded messages the type of alarm detected;
- commands an automatic operation following an event detected by the burglar-alarm system;
- can be called by the user and by means of the "open web net" commands or simplified commands arranging the operation of devices inside the home;
- can be questioned either locally or by telephone, to find out the state of an actuator of the automation system for the lighting and automatic operation functions;
- can be questioned by telephone to give information on the state of the burglar-alarm system;
- allows continuous monitoring of the system allowing, for example, a communication that there has been a power cut for more than 2 hours;
- allows activating the "room monitor" function: the giving of messages and listening to what happens in the room. Locally just by the dialling device or in all the rooms connecting the dialling device to the BTicino sound system.

The device also makes available:
- the possibility of setting an extra joker telephone number, common for all the messages, for easier tracing;
- automatic recording of the internal memory of the events which have happened and been detected by the system;
- can connect with the BTicino "MY HOME" portal. The MY HOME WEB services, such as sending an e-mail when there is an alarm, are thus made available.



GAS detector
Being able to manage technical alarms as well guarantees greater safety in the home even when away for a long time.

Automation
Lights and rolling shutters can be activated by means of the telephone or be automatically activated following events

Automation System

Burglar Alarm System

MY HOME portal

Dangerous events are signalled with e-mail, sms or voice call. The user can manage and control the MY HOME system by means of fixed-line telephone, mobile phone or PC connected to the Internet thanks to the MY HOME WEB service.

The user is called when there is a:
- intrusion alarm
- remote call for help alarm
- technical alarm (gas-water-temperature)

The user can call to:
- activate devices
- check the system state
- listen to sounds in the room
- broadcast the voice in the room

Sound system
Connected with the dialling device it can make full use of the ROOM MONITOR function.

Item L4600/4

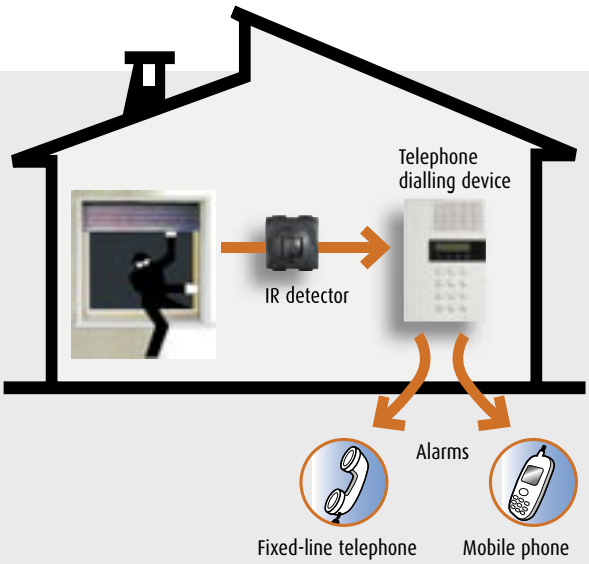
Wire burglar alarm
Is the component which manages the alarms.

NOTE: using the burglar-alarm control unit with combined telephone dialling device there is no need to use the flush-mounting burglar-alarm control unit item L4600/4

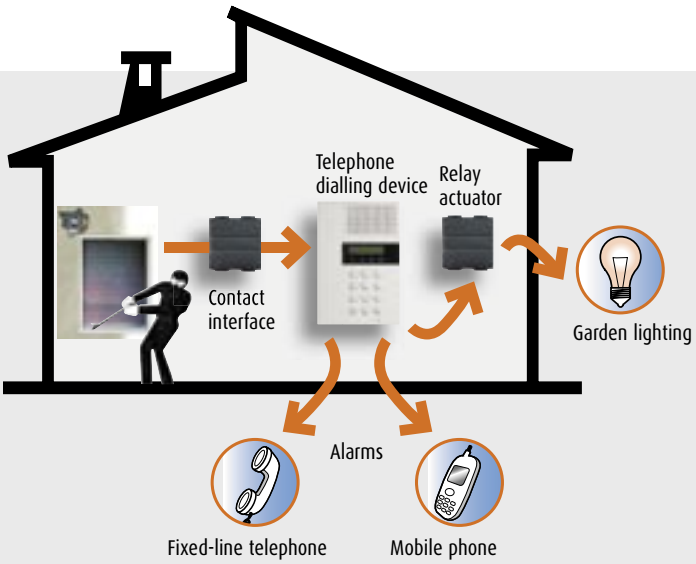
Burglar alarm control unit with dialling device and telephone dialling device

EXAMPLES OF USE
6 examples of use of the burglar alarm control unit with integrated telephone dialling device and/or of the telephone dialling device are proposed below in graphic form. Remember that each device can supply all the performance indicated simultaneously.

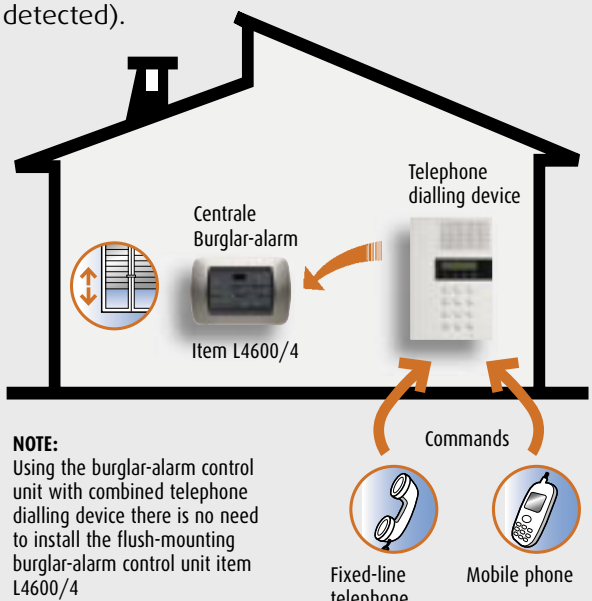
INTRUSION ALARM
Following an intrusion alarm the dialling device calls the pre-set telephone numbers.



TAMPERING ALARM AND SWITCHING ON THE GARDEN LIGHTING
Following an tampering alarm the dialling device calls the pre-set telephone numbers and switches on the lamps in the garden.

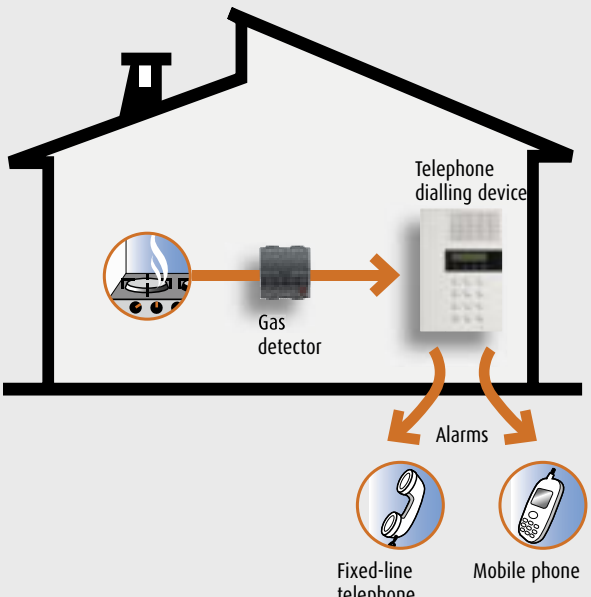


QUESTIONING THE STATE OF THE BURGLAR-ALARM SYSTEM
By calling the home number the dialling device can be questioned to receive information on the state of the burglar-alarm system (e.g. on/off, events detected).



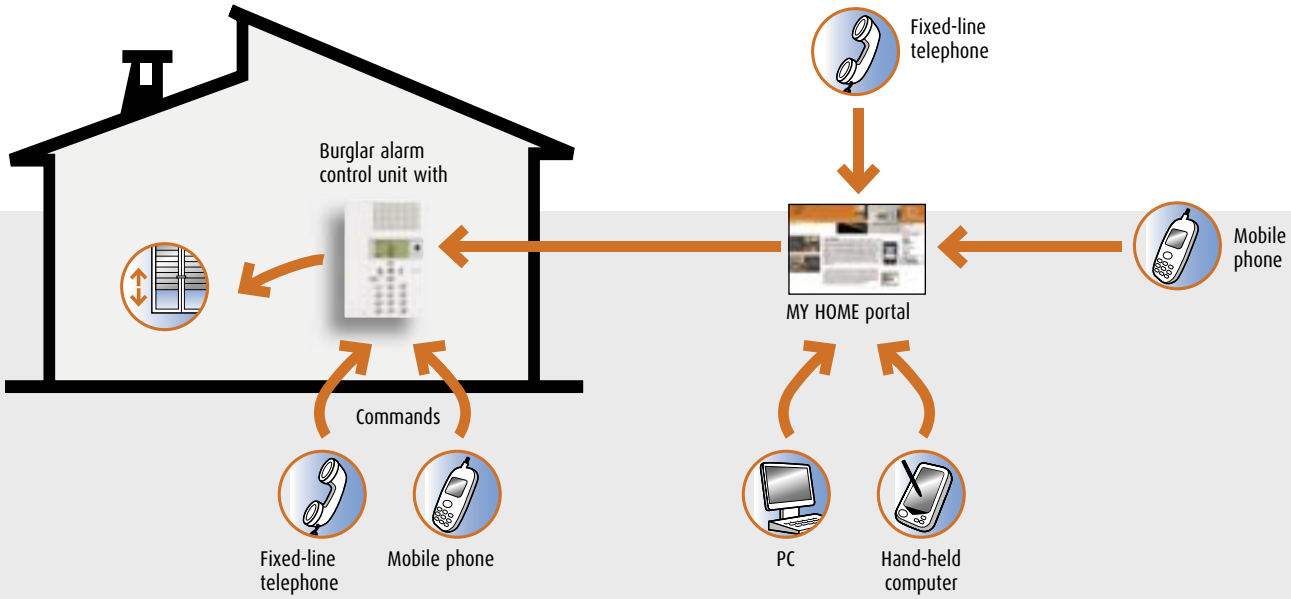
NOTE:
Using the burglar-alarm control unit with combined telephone dialling device there is no need to install the flush-mounting burglar-alarm control unit item L4600/4

TECHNICAL ALARM (GAS LEAK)
By combining the gas detector in the burglar-alarm system via an interface, when there is a gas leak the dialling device will call and inform the user.



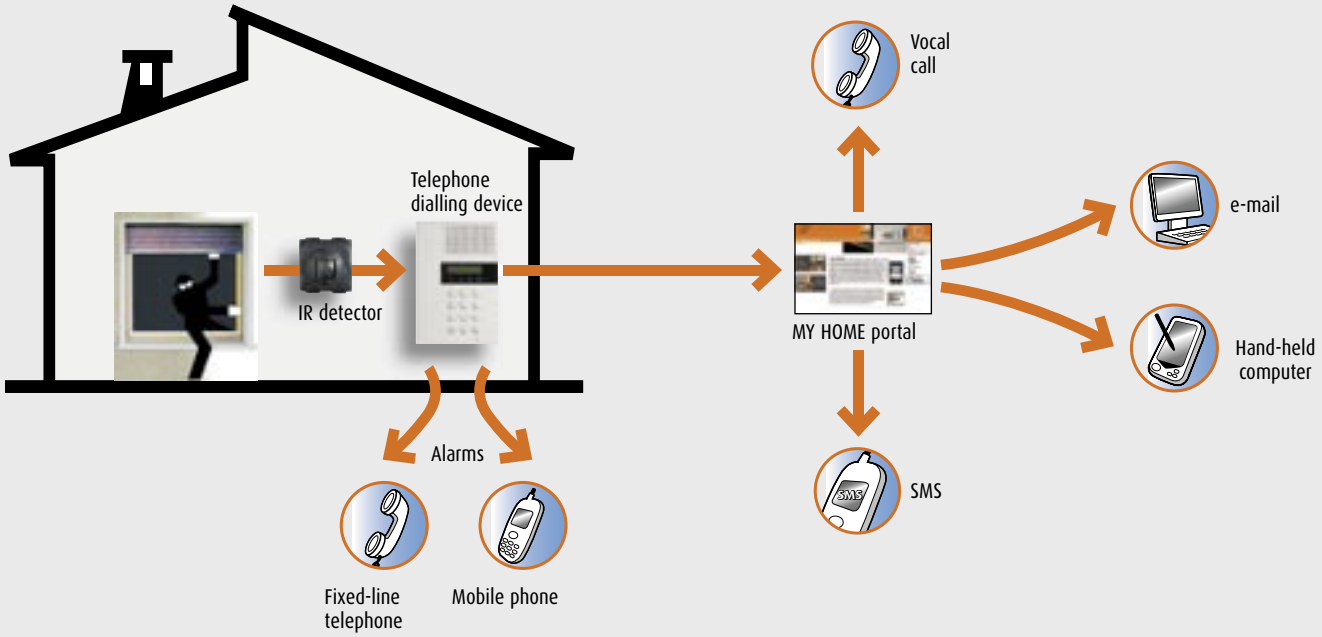
SWITCHING THE BURGLAR-ALARM SYSTEM ON/OFF REMOTELY

The burglar-alarm system can be switched on or off from a remote telephone (e.g. mobile, fixed-line telephone not of the home) or with the MY HOME WEB service (with a PC connected with Internet, a fixed-line or mobile phone).



SEND AN ALARM BY MEANS OF MY HOME PORTAL WEB

Following an alarm the telephone dialling device sends a call to the preset telephone numbers and connects to the MY HOME portal. The portal will send an e-mail, a SMS and a voice call to the numbers programmed:



Telephone actuator

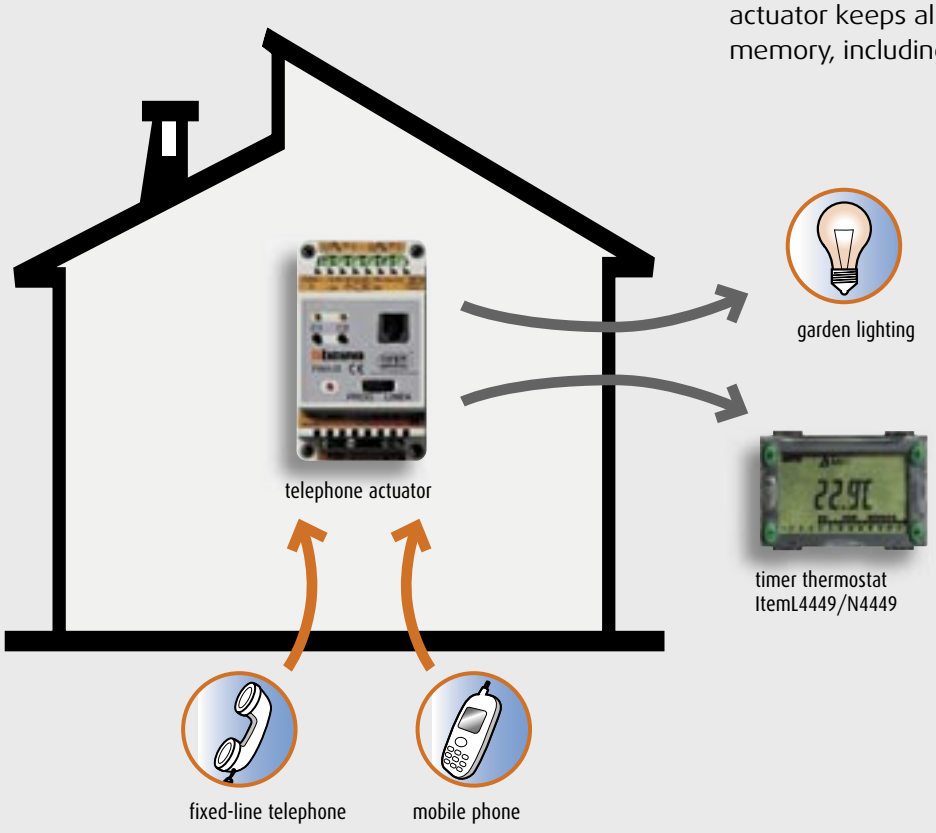
The telephone actuator can control two users (e.g. boilers, watering the garden, staircase light, garden light, etc.) at a distance by means of the fixed-line telephone or from the mobile phone.
The programming and the commands at a distance are PSW protected. The PSW is a 4-figure number code which the customer can customise. If it is not modified it is 1234. During programming three different operating modes can be selected:

LIGHTING
Can be used to activate/deactivate users such as staircase light, garden light, boilers etc.

AUTOMATIC OPERATION
Can be used to operate the rolling shutter (up/down) motors or other electric motors.

TEMPERATURE REGULATION
To activate or deactivate the boiler in combination with BTicino timer thermostat Item L4449/N4449 Living and Light series.

The activation, deactivation, check and programming commands must only be sent to the actuator from a telephone with touch tone dialling (DTMF), while using telephones with pulse dialling (PD) or rotary dial the actuator does not work.
The telephone commands can be sent in the simplified version, with a small number of codes for easier use, or in the complete version according to a standard defined by the "Open Web Net" protocol.
Also, the users can be activated locally using the two pushbuttons (C1 and C2) on the front panel.
Up to four actuators in parallel on the line can be installed on the same telephone line to command more than two users. Actuator operation is guaranteed even if there is an answering machine on the telephone line.
The actuator can also be installed as an extension on a BTicino PABX telephone switchboard. In this application the users can be controlled both from the extensions and from an external telephone line.
When there is a power cut (230V a.c.) the actuator keeps all the programming in the memory, including the state of the relays.



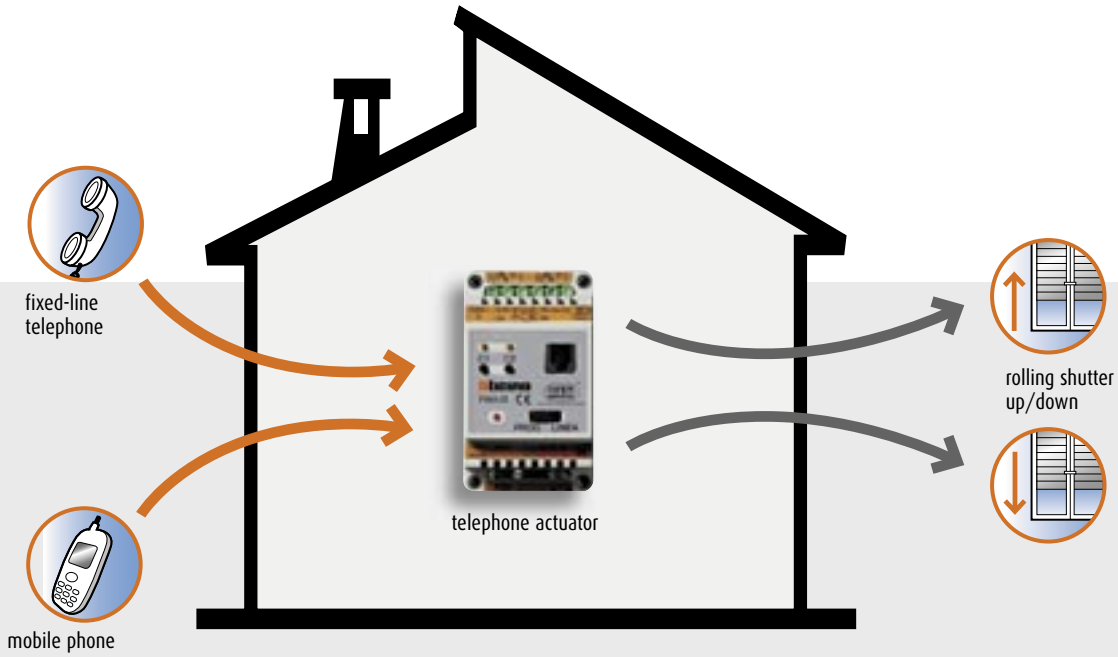
Telephone actuator item F461/2

EXAMPLES OF USE

Some examples of telephone actuator operation are proposed below.

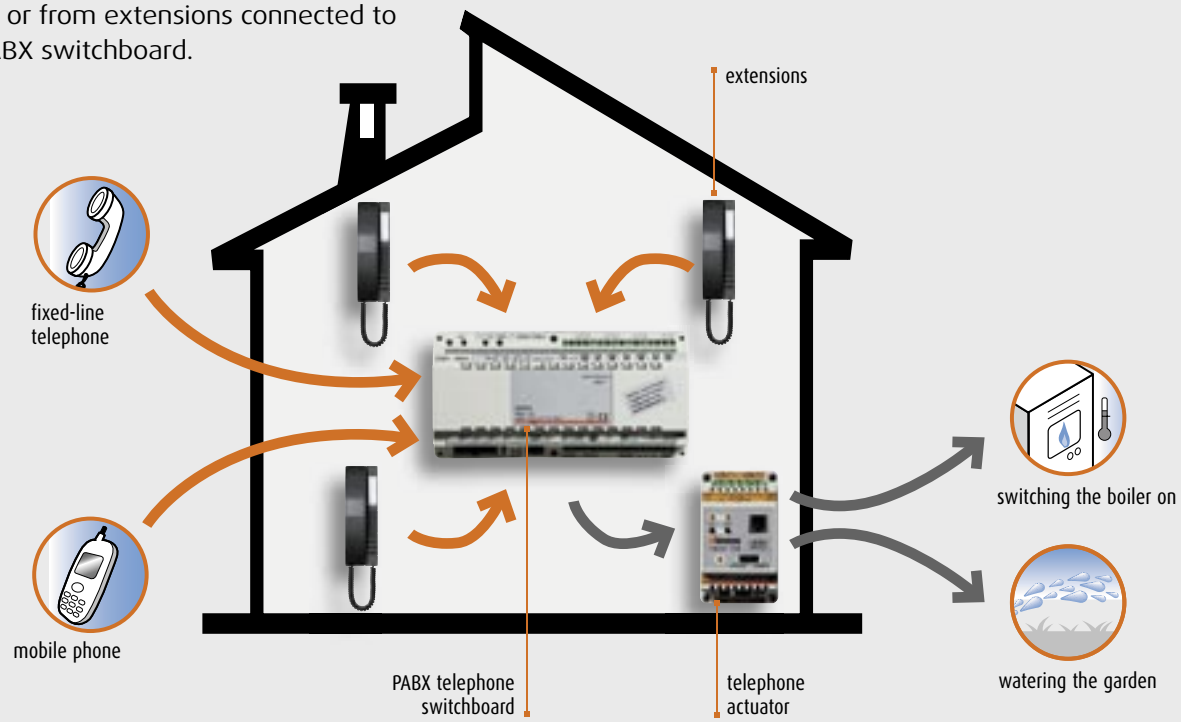
AUTOMATIC OPERATION MODE

Remote control of the up/down of rolling shutters or motor-driven blinds.



LIGHTING MODE

Remote control from fixed-line or mobile phone or from extensions connected to the PABX switchboard.

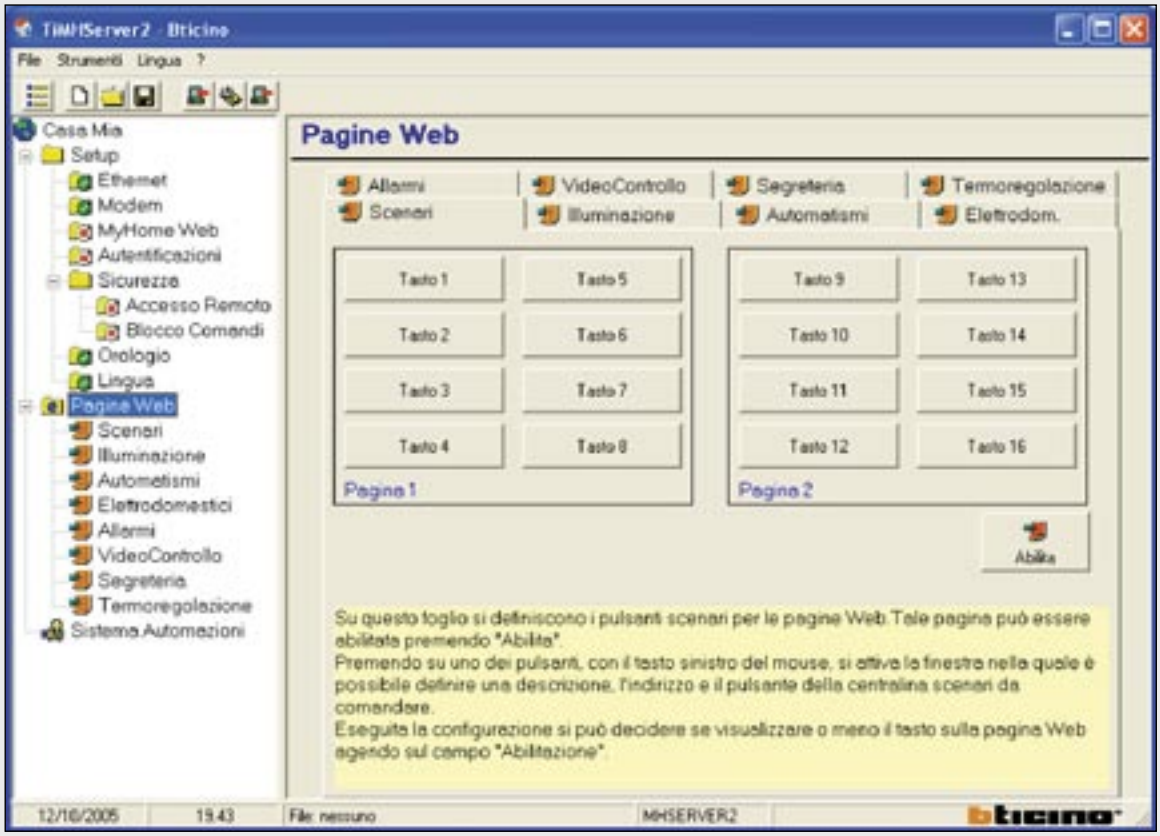


Programming software

BTicino has developed Software dedicated to programming the Web Servers and the MHGSM module. A CD containing the TiServer Software is supplied with the WEB Servers (item F452, F452V and item MHSERVER) while a CD containing the TiWeb Software is supplied with the MHGSM module. The Software is designed for Windows 98B environments or higher.

TISERVER
This program supplied with the MHSERVER2 configures them and creates the remote management web pages of the My Home system displayed with standard web navigation programs (browsers).
The program can program:
- the functions to be displayed and managed on the PC such as CCTV, automation, scenario management etc.
- the e-mail addresses for the automatic sending of messages linked to events such as burglar alarms or technical alarms
- the IP addresses of the MHSERVER2 and the PC for communication within the LAN or Internet.

The program can also import the Web Server programming on PC for updates following modifications to the MY HOME system.

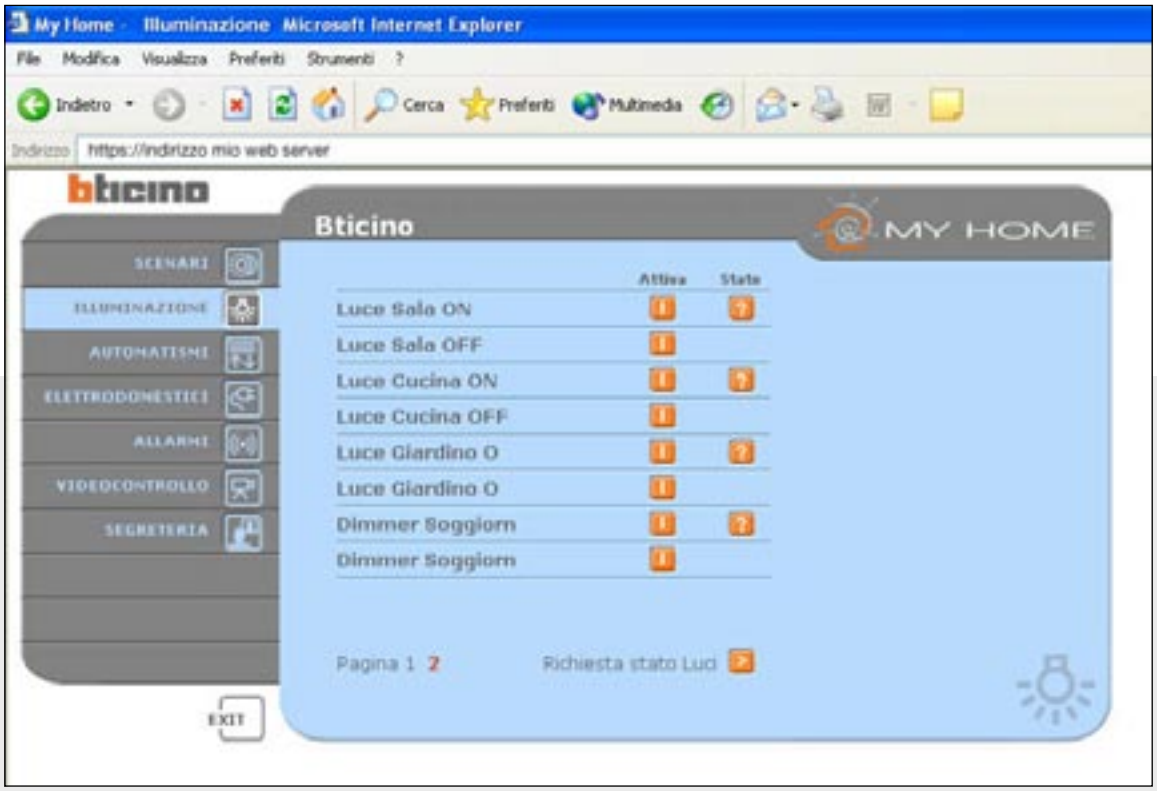


TISERVER

This programme, supplied with the WEB server, allows the programming of these devices as well as the creation of remote management WEB pages of the MY HOME system, displayed with standard browser programmes (browsers).
The programme allows you to programme:

- the functions you need to display and manage from a PC, e.g. CCTV, automation, scenario management, etc.
- e-mail addresses to automatically send messages associated with events such as Burglar alarms or Technical alarms
- IP addresses of the WEB Server and of the PC for communicating on the LAN network or on the Internet.

The programme also allows you to import the WEB Server programming into the PC in order to perform an update in connection with changes made to the MY HOME system.



Example of a WEB page programmed with TiServer

TIWEB

This program supplied with the MHGSM module configures it and creates the remote management WAP pages of the My Home system displayed with WAP navigation programs.
The program can program:

- the functions to be displayed and managed by means of wap protocol such as automation, management scenarios, lighting and electrical appliances etc.
- the mobile phone numbers to automatically send messages linked to events such as burglar alarm or technical alarms
- the mobile phone numbers to access and command the system

The program can also import the MHGSM programming on PC for updates following modifications to the MY HOME system.

Use the TiWEB Software to program the WAP pages which will be shown on the display of the GSM mobile phone

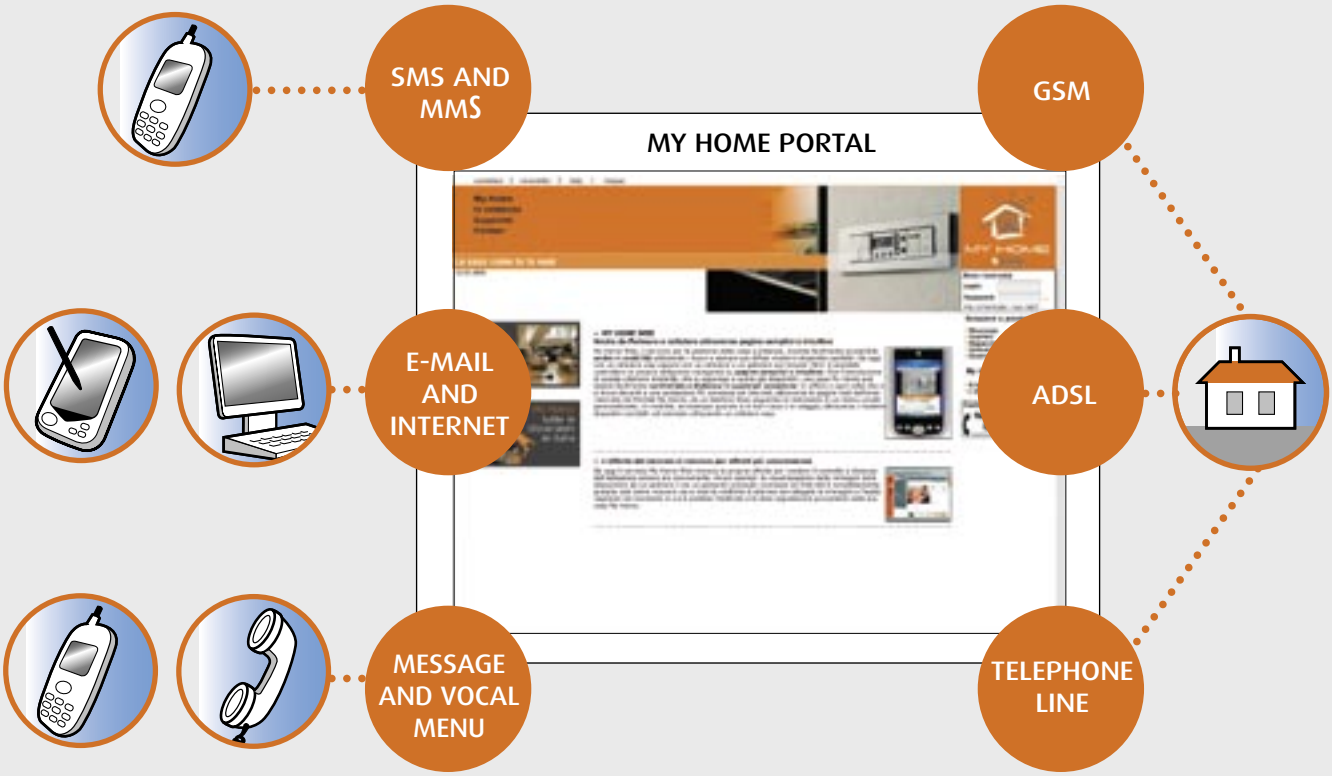
MY HOME WEB

MY HOME WEB is the service offered by BTicino to control the house at a distance using any means of communication: a computer connected to the Internet or a fixed-line or mobile phone.
All this is possible thanks to the MY HOME portal, which can transmit the commands to the home MY HOME systems and, at the same time, find out in real time what is happening in the house thanks to the signalling of alarm events or by hearing the sounds and seeing the pictures from the rooms of the house.

With the MY HOME portal you can control the house at a distance simply and easily in two different ways:

- via the Internet, connecting to the MY HOME portal and accessing a special reserved area after giving double identification with login and password which can be customised.

- with a telephone (fixed-line or mobile phone), following the indications of a voice menu which can be customised.



WHAT MY HOME WEB CAN DO

The following functions can be activated with a simple telephone or by connecting to the reserved area of the Internet MY HOME portal:

Controls: to manage the lighting, heating, electrical appliances, power and all the automatic devices in the home.

Scenarios: to simultaneously activate several predefined commands such as, for example, opening the gate and switching on the driveway lights at the same time, with just one action. A scenario saved in the system can be activated by means of unit scenarios and WEB house-automation scenarios. The WEB house-automation scenarios are scenarios programmed in the WEB pages of the MY HOME portal.

Alarms: if there is a dangerous event, the house contacts the programmed telephone numbers and the addresses with a telephone call, a SMS and an e-mail with audio/video attachment and automatically reacts with the predefined actions (for example the automatic switching on of all the house lights).

Planning: with a single order one can manage the watering or temperature control or simulate the presence of the user in the home. You can define the actions which the house must perform automatically in the days and times and for the periods chosen.

Archives: MY HOME WEB records all the actions and events which have occurred in the home and makes them available for consultation by the user.

Pictures: to see in real time the rooms of the house filmed by the cameras.

Answering machine: a door-entry call can be notified to the user by sending SMS or e-mail messages with an audio/video attachment. The signals can also be consulted by entering the reserved area of the MY HOME portal.

Check: the state of the home functions can be managed to find out, for example, whether the intrusion system or the lights are switched on, etc...

THE ADVANTAGES OF MY HOME WEB

MY HOME WEB can check all the house-automation functions simply, conveniently and that may be customised.
Simple because the user does not have to remember special passwords to access the service via telephone or computer.
It may be customised because the user can program the plannings, the WEB house-automation scenarios and the presentation message for the answering machine.
Convenient because thanks to the MY HOME Portal the services can be used with different means of communication such as a computer, hand-held computers and fixed and mobile phones, regardless of the type of device used.

Devices such as the telephone actuator, the burglar-alarm control unit with combined dialling device and the telephone dialling device expressly designed to be managed by means of telephone line can, with MY HOME WEB, also be commanded by a PC connected to the Internet or with voice commands and SMS.
The MY HOME WEB installer can benefit from the advantages offered because, when the customer requests, he can modify the programming, system parameters and diagnosis and maintenance remotely.

MY HOME WEB

CHECK THE SYSTEM FEATURES
To use the MY HOME WEB service in the home:

- There must be at least one solution of the MY HOME system: Lighting, Automation, Burglar-alarm, CCTV and energy management,
- One of the following control devices must be installed:

  Audio/video WEB Server Item **MHSERVER**

  Video WEB Server Item **F452V**

  WEB Server Item **F452**

  Burglar-alarm control unit with combined telephone dialling device Item **3500/3500N**

  Burglar alarm control unit with integrated GSM telephone dialling device Item **3500GSM**

  Telephone dialling device Item **4075N**

  Chosen on the basis of the features of the system to be controlled and the functions to be performed.

- There must be an analogue telephone line or an ADSL broadband connection to connect the devices to the outside world.

THE RANGE OF SERVICES
As shown in the table below, on the basis of the control remote possibility offered by each device, you can identify five different types of service.

⁘ To use the MY HOME WEB service with the WEB Server the MHROUTER modem/router, F444 oR MH300 must be installed in the system.

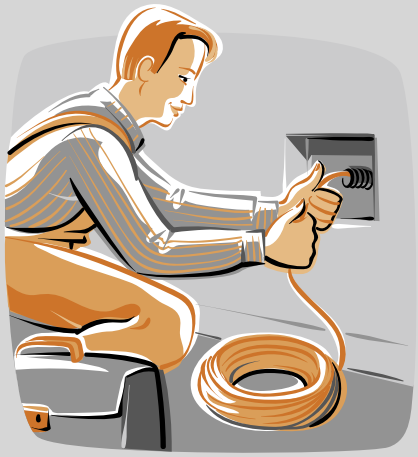
	ITEM MHSERVER ⁘	ITEM F452V ⁘	ITEM F452 ⁘	ITEM 4075N ITEM 3500/3500N/3500GSM
				
FUNCTIONS				
Commands	*	*	*	*
Scenarios	*	*	*	*
Alarms	*	*	*	*
Temperature control	*	*	*	*
Planning	*	*	*	*
Archives	*	*	*	*
Pictures	*	*		
Answering machine	*			
Check	*	*	*	*

HOW TO ACTIVATE MY HOME WEB

Activating the MY HOME WEB service is simple and quick.
First of all install and test the MY HOME system choosing from the traditional solutions into which the MY HOME offer is divided (comfort, safety, communication, saving and control). During the installation it is a good idea to make a note of the general system data and the devices installed: light point, automation points, scenario units, electrical appliance priority and alarms in the system handbook, it will thus be simpler to configure the portal and the system configuration will always be available.

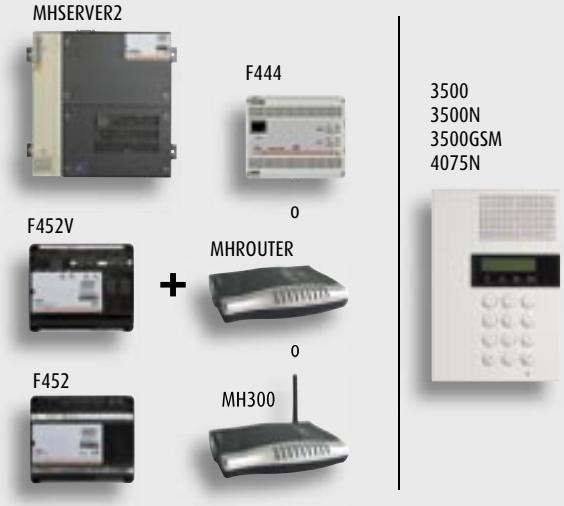
Wherever you are, in the office or at home, on connecting to the MY HOME portal **(www.myhome-bticino.it)** and typing your login and password you access your personal area where you enter the general system data, such as address and home owner.
The third step is to program the control device and, if using a WEB Server, the MHROUTER modem/router as well.
Finally enter the programming of the MY HOME system connecting to the Internet and accessing your reserved area.
For more information on the service consult the following pages.

1



Installing and testing the MY HOME system

3



Programming the control device and, if using a WEB Server, the MHROUTER modem/router as well.

2

Registering the system on the Portal

4

To program the system on the Portal

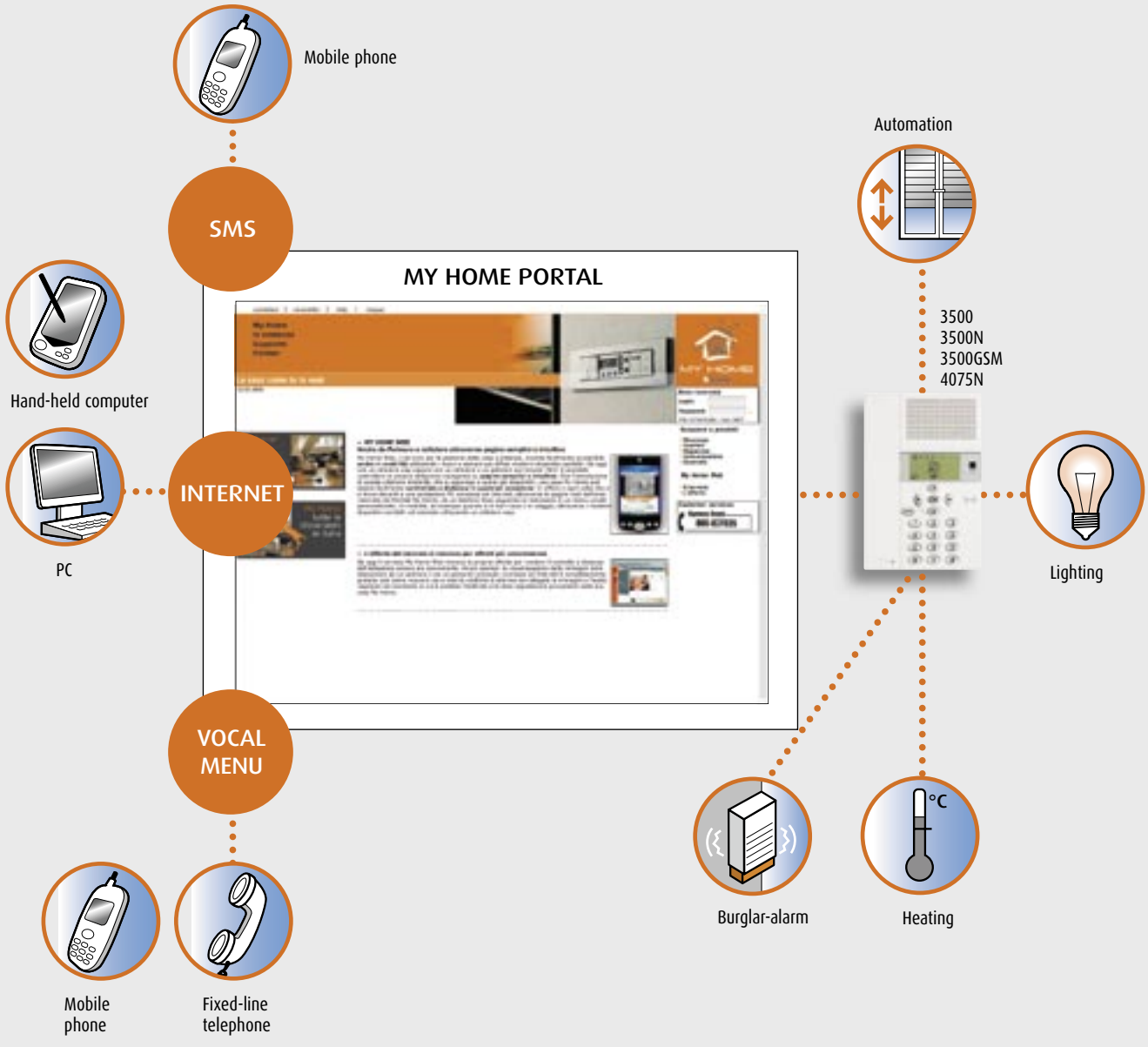
MY HOME WEB

BURGLAR ALARM CONTROL UNIT WITH DIALLING DEVICE ITEM 3500, 3500N, 3500GSM OR TELEPHONE DIALLING DEVICE ITEM 4075N

With the Burglar-alarm control unit with dialling device item 3500 or with the telephone dialling device item 4075N the MY HOME WEB service can manage the MY HOME system using a simple telephone line.

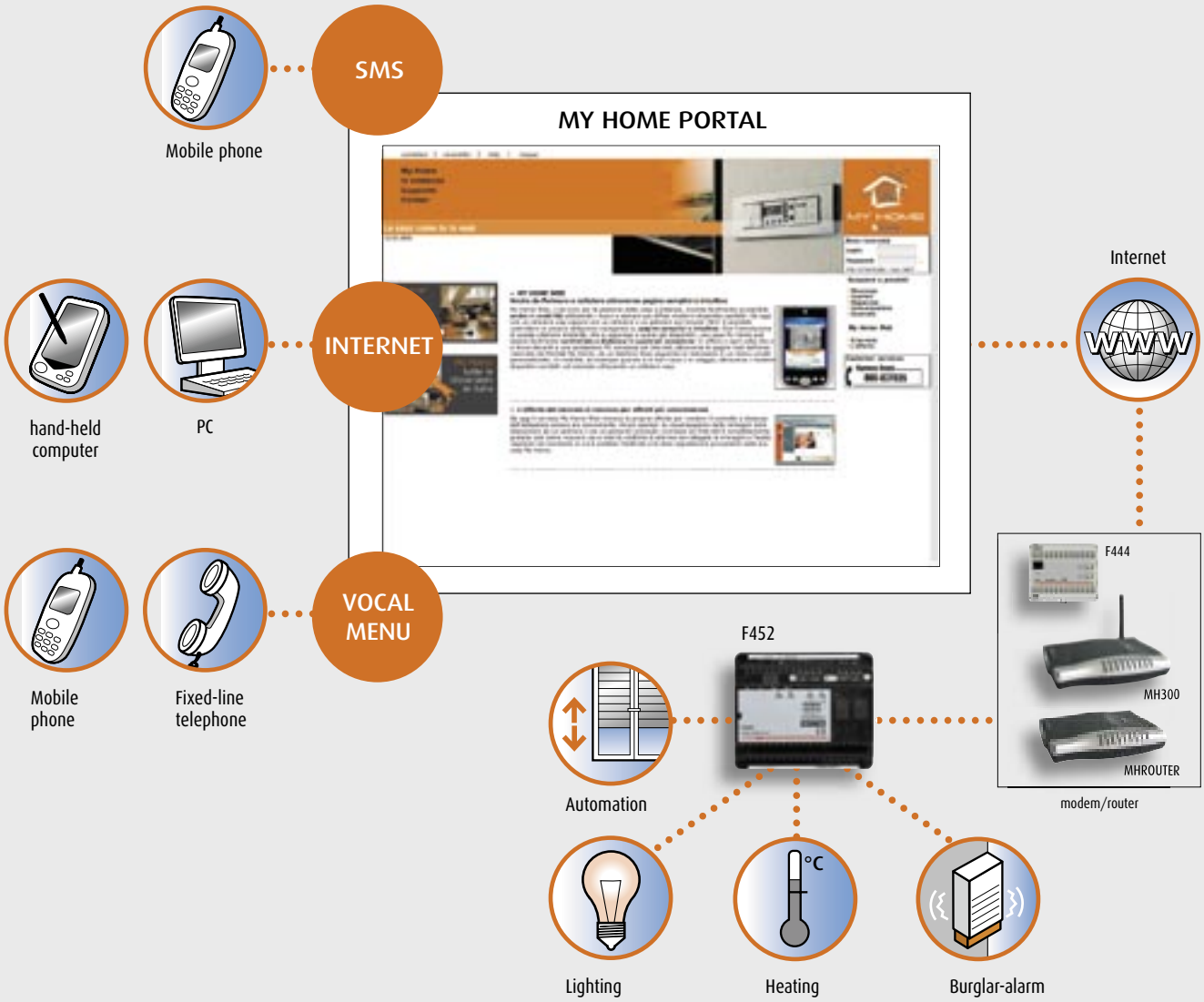
With the alarm function the user is always kept informed on the alarms which have occurred and he is warned by means of E-mail and SMS.

He can also manage the comfort solutions at a distance. For example, before the user reaches home he can activate with just one telephone call from the mobile phone the switching on of the driveway lights, opening the garage and the house temperature.



WEB SERVER ITEM F452

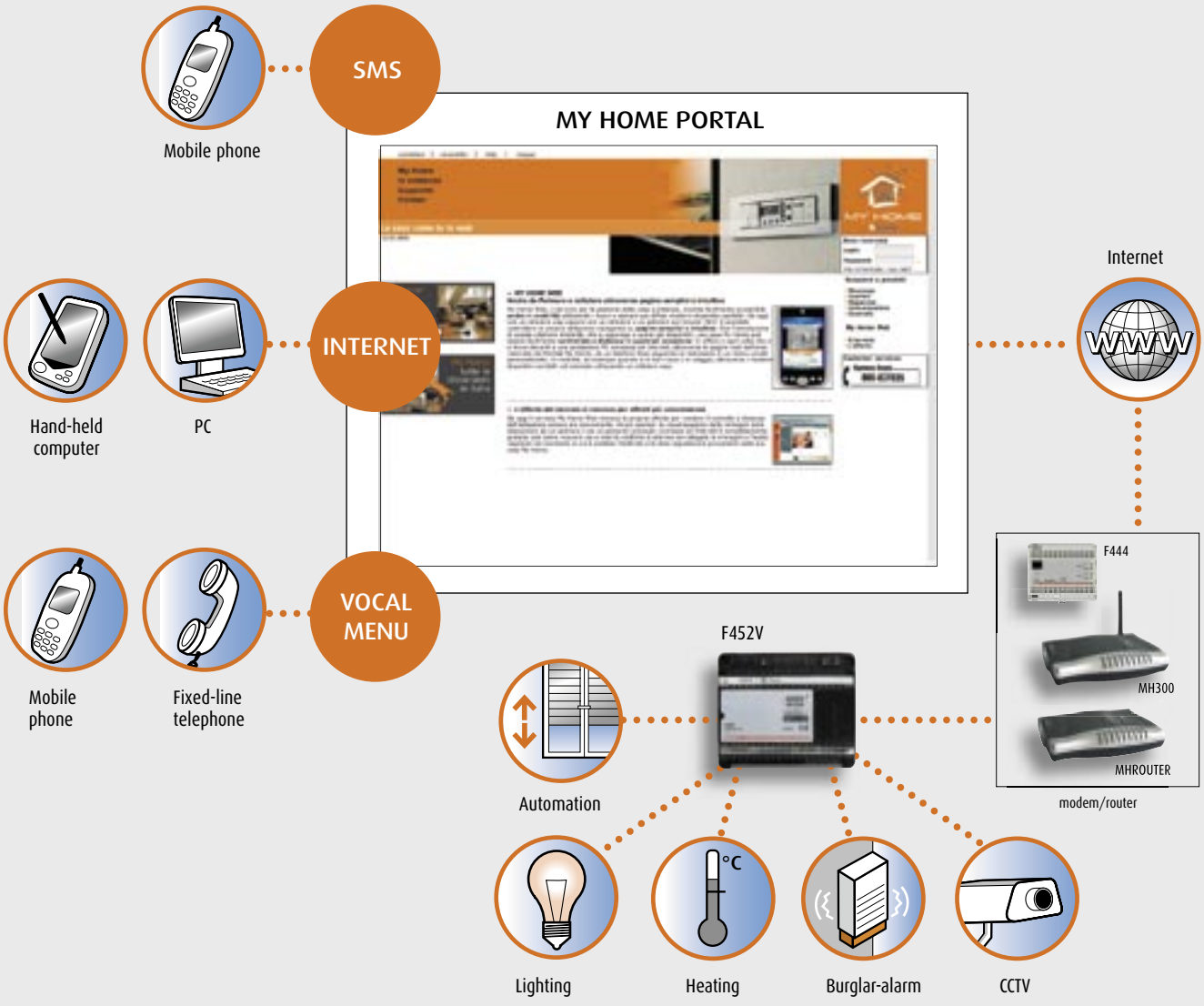
Using the WEB Server item F452 with the MY HOME WEB service you can control the MY HOME solutions in the house using the flexibility and the connection offered by the broadband networks (ADSL etc.).
To the possibility of managing the Automation and Burglar-alarm functions by direct connection via Internet and WEB control pages, the MY HOME WEB service adds the possibility of managing the WEB SERVER item F452 by telephone commands, SMS messages or e-mail. For example a scenario can be created which switches on the house lights and it can be activated with a simple telephone call every time the user wants. In the same way the Planning service can be activated to simulate the presence of the user in the home and thus discourage attempts at intrusion; in this case the MY HOME system in the house will automatically activate a preestablished scenario which, for example, switches on the lights in some rooms in the home. Naturally MY HOME WEB can also use all the services designed to increase safety in the home, managing the Burglar-alarm system and sending signals of alarms or dangerous events in the form of e-mail or SMS. To use the MY HOME WEB service with WEB Server item F452, at least one solution of the MY HOME system must be installed in the house. The Modem/Router (item MHROUTER) connected to a broadband network must be installed to communicate with the outside world.



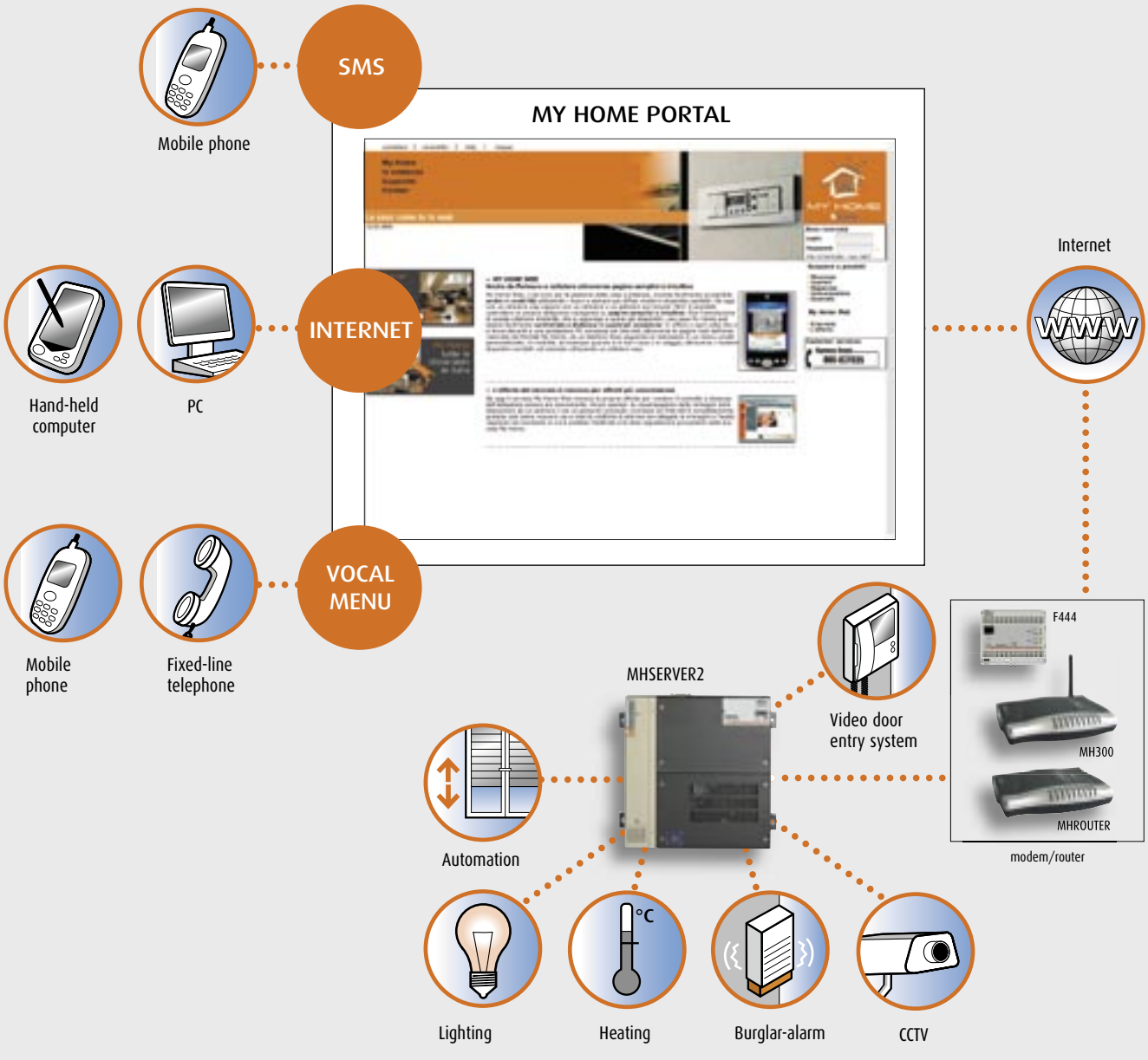
MY HOME WEB

WEB SERVER VIDEO ITEM F452V

This device represents the evolution of the similar item F452, because, as well as performing the Automation, Burglar-alarm and Energy management functions, it can be connected to cameras and thus manage the CCTV function. The user can access his reserved area of the MY HOME WEB portal at any time and via the "pictures" service display the pictures transmitted by the cameras in the home. If there is a burglar alarm, MY HOME WEB warns the user, sending an e-mail with the pictures taken by the cameras and a SMS to the programmed telephone numbers and e-mail addresses. To use the MY HOME WEB service with the WEB Server art F452V at least one solution of the MY HOME system must be installed in the house. The Modem/Router (item MHROUTER) connected to a broadband network must be installed to communicate with the outside world.



2 WIRE AUDIO/VIDEO WEB SERVER ITEM MHSERVER2
As well as all the services offered by using the WEB Servers item F452 and item F452V with the MY HOME portal this device can also manage the "video door entry answering machine" service: the user can be informed by means of e-mail and SMS every time someone leaves a message on the video door entry answering machine of his home. MY HOME WEB also informs the user of any intrusion. He can find out what is happening in the home receiving an e-mail with the audio and video content automatically recorded by the cameras. To use the MY HOME WEB service with item MHSERVER, a MY HOME system solution must be installed in the house. The Modem/Router (item MHROUTER) connected to a broadband network must be installed to communicate with the outside world.



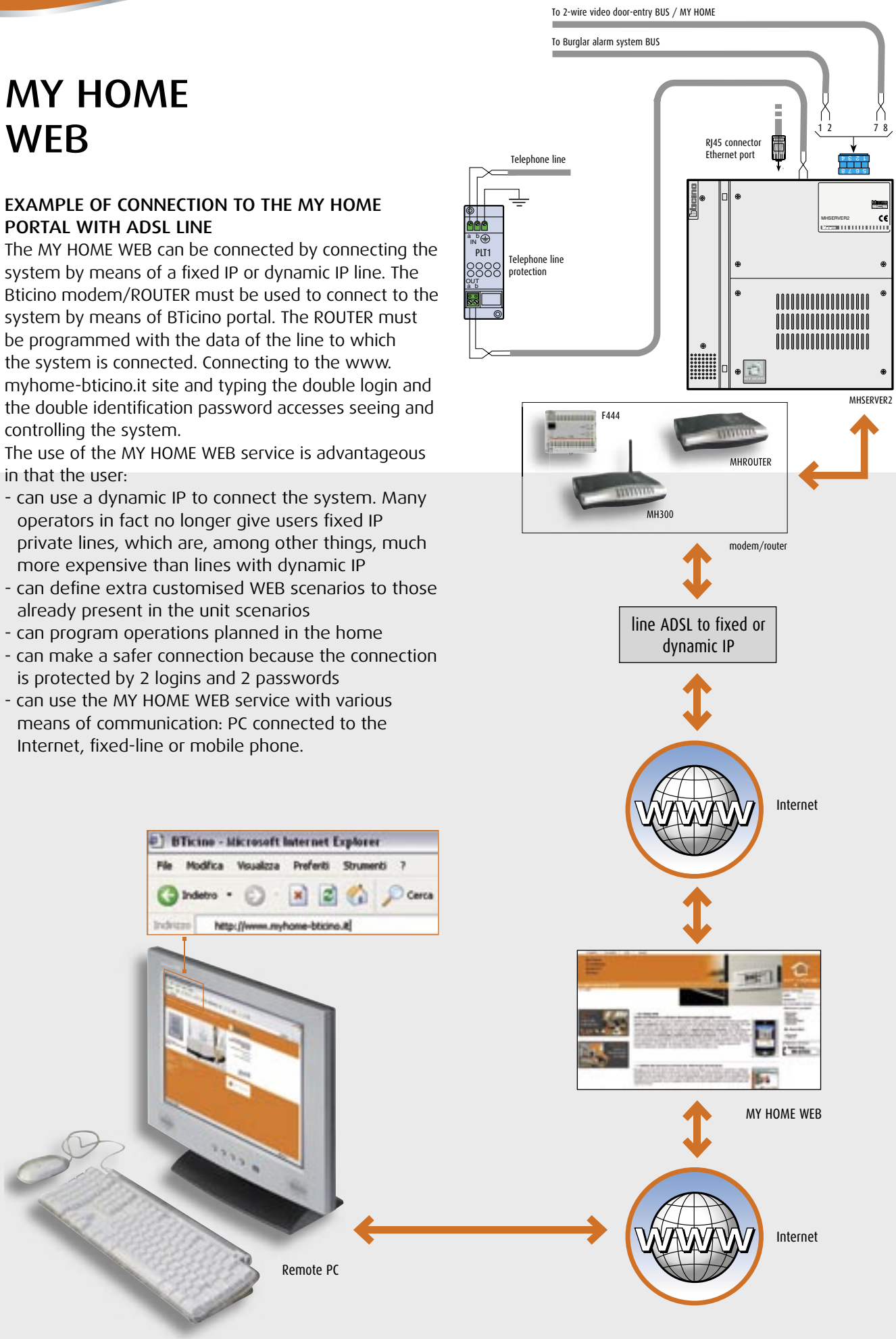
MY HOME WEB

EXAMPLE OF CONNECTION TO THE MY HOME PORTAL WITH ADSL LINE

The MY HOME WEB can be connected by connecting the system by means of a fixed IP or dynamic IP line. The Bticino modem/ROUTER must be used to connect to the system by means of BTicino portal. The ROUTER must be programmed with the data of the line to which the system is connected. Connecting to the www.myhome-bticino.it site and typing the double login and the double identification password accesses seeing and controlling the system.

The use of the MY HOME WEB service is advantageous in that the user:

- can use a dynamic IP to connect the system. Many operators in fact no longer give users fixed IP private lines, which are, among other things, much more expensive than lines with dynamic IP
- can define extra customised WEB scenarios to those already present in the unit scenarios
- can program operations planned in the home
- can make a safer connection because the connection is protected by 2 logins and 2 passwords
- can use the MY HOME WEB service with various means of communication: PC connected to the Internet, fixed-line or mobile phone.



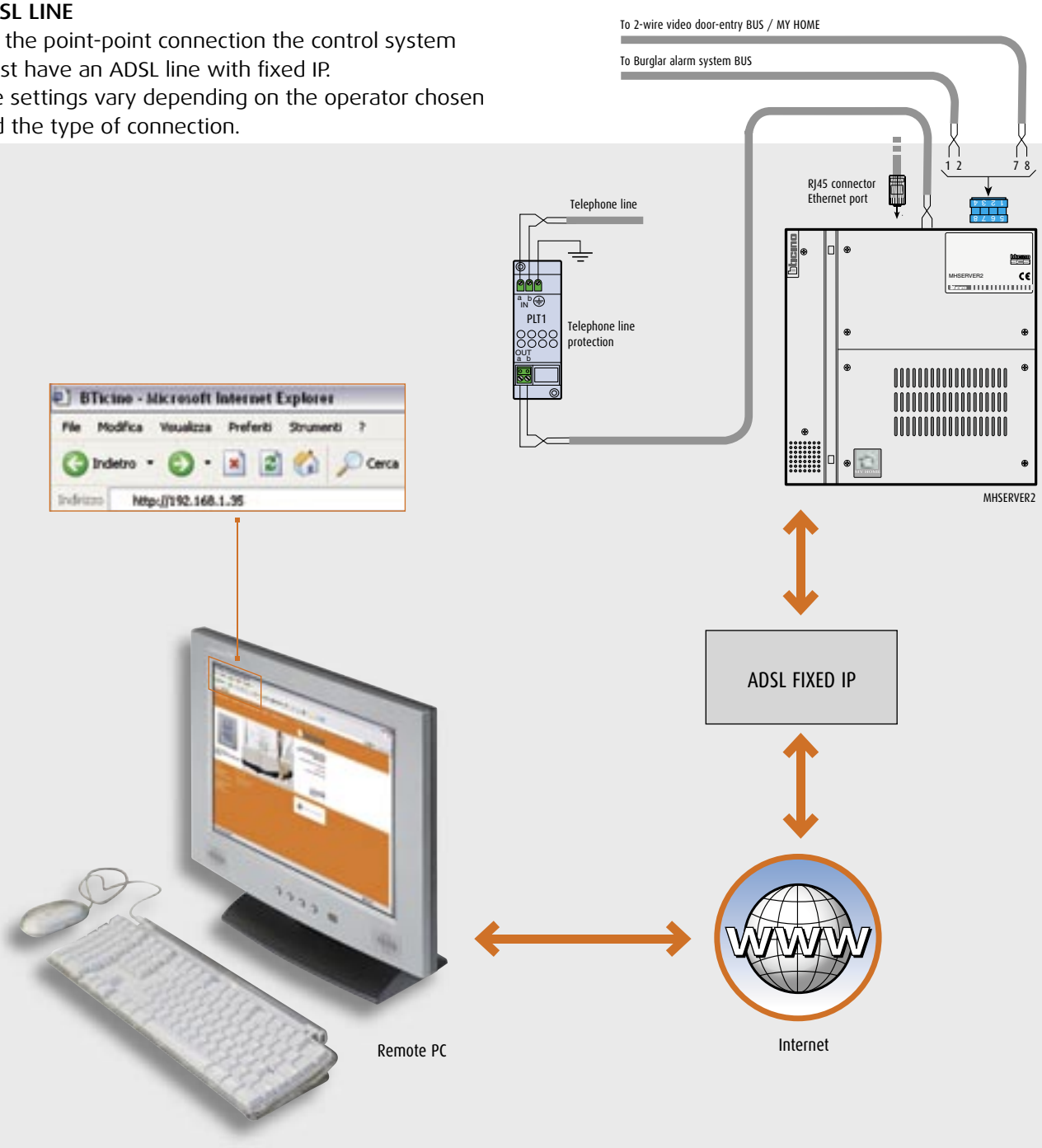
Point-point control

The point-point control is obtained by connecting directly with the devices by means of analogue telephone line, PC connected to the Internet or mobile phone (GSM). The point-point control can be obtained with all the control devices in the catalogue.

EXAMPLE OF POINT-POINT CONNECTION WITH ADSL LINE

For the point-point connection the control system must have an ADSL line with fixed IP.
The settings vary depending on the operator chosen and the type of connection.

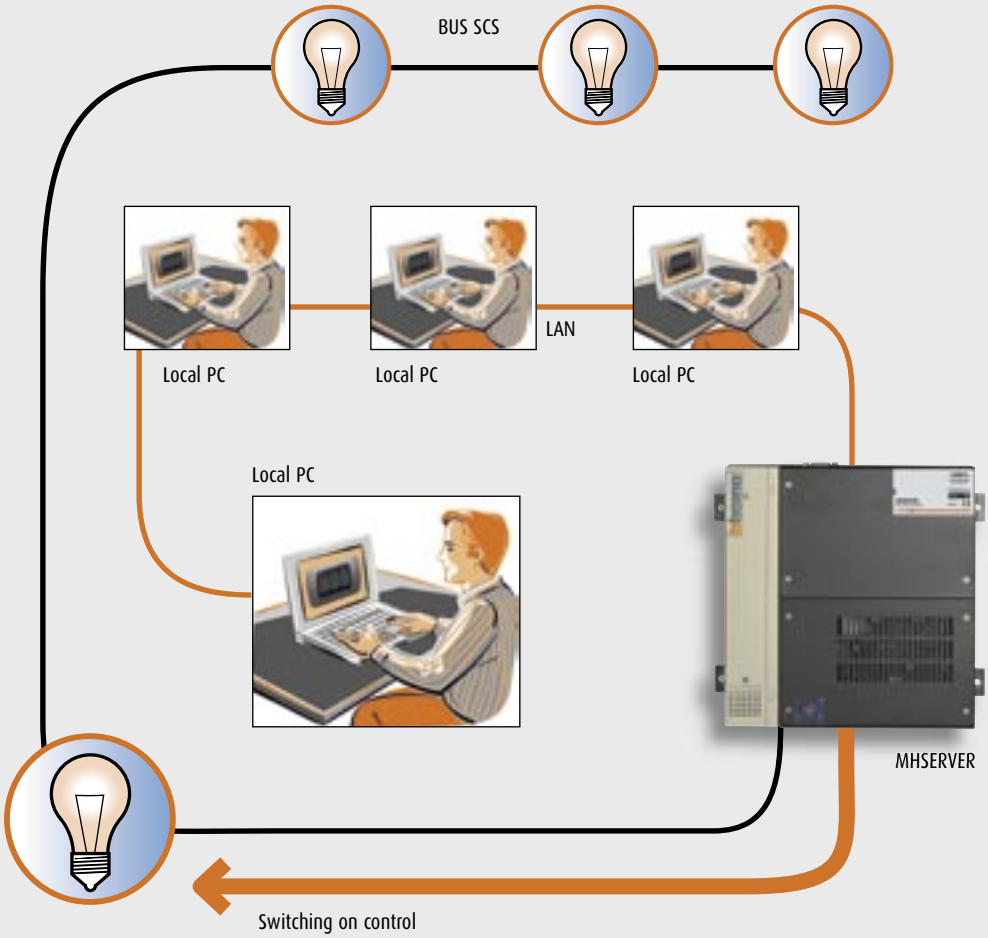
To connect to the system type the IP address of the line to which the control device is connected in the browser.
To access seeing and managing the system then type the login and the password programmed by means of software TiServer.



Local control

Local control is obtained by connecting to the devices without passing via the telephone line or ADSL. Local control is obtained with the WEB Server using the monitoring and control Software (MHVisual, Visual SCS, Virtual Switch, SCS Action and SCS Action Server) or the WEB pages programmed with the TIMHServer2 or TiServer Software and called with a standard Browser.
The MHVisual Software is contained in a CD to be purchased (Item MHVISUAL).

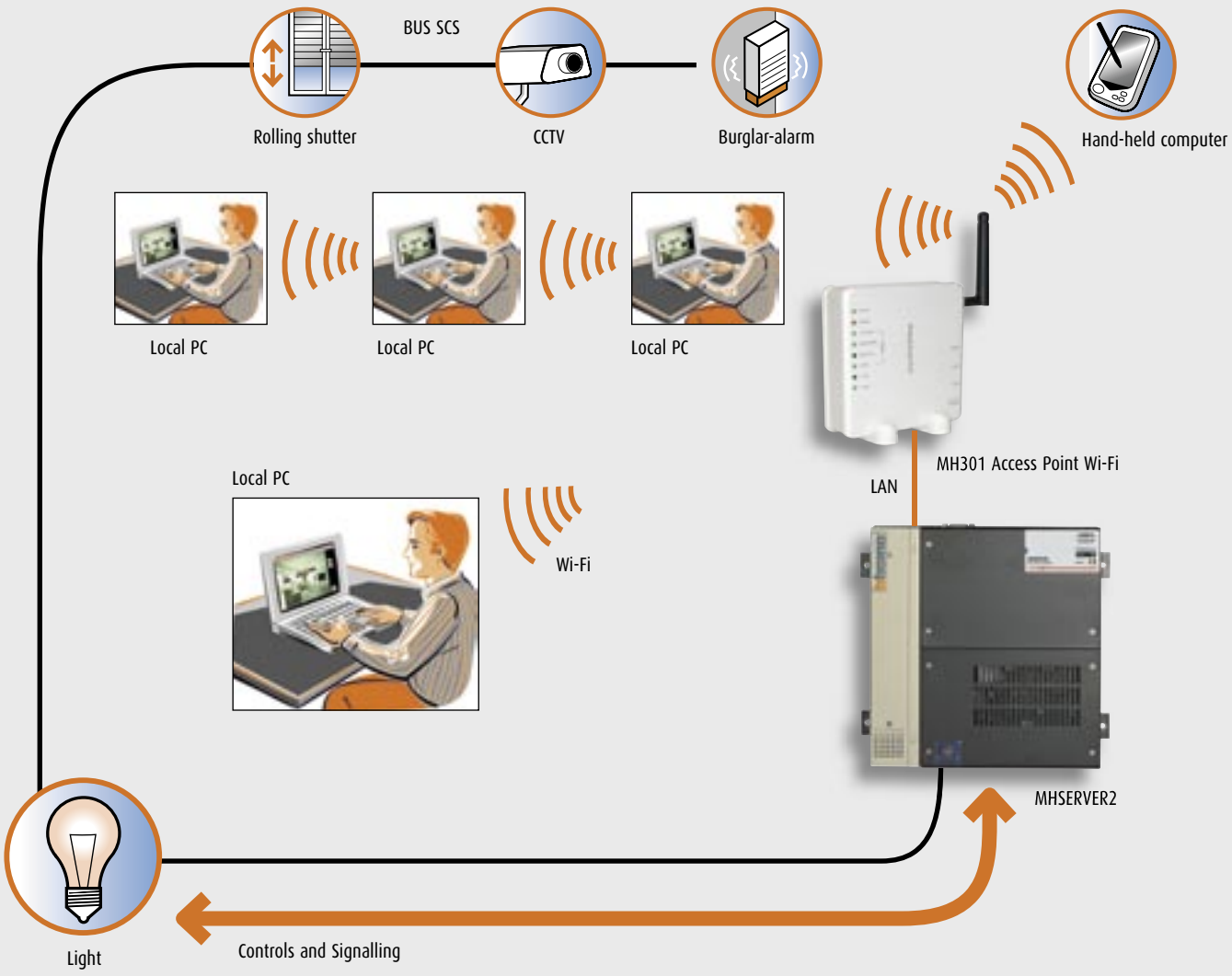
■ Example of local control using the Virtual Switch monitoring and control Software



The local control can be performed via the Wi-Fi network. The connection can be made through Wi-Fi (wireless) connection to the devices without making use of the telephone line or ADSL.

As with the LAN connection, the system can be checked with different Bticino Software packages or with the WEB pages programmed in the Web Server thereof.

■ Example of Wi-Fi local control using the MHVISUAL Software



Monitoring and control software

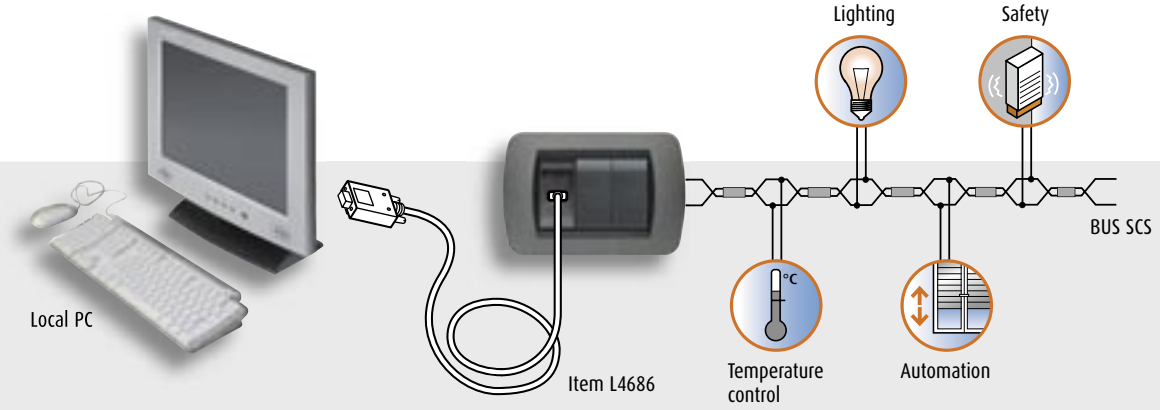
MHVISUAL
This programme makes it possible, through an easily customisable graphical user interface, to control and monitor the devices of the MY HOME system using a PC. In fact, MHVISUAL allows you to create a graphical representation of the system to be checked wherein the real devices are represented with the aid of prearranged icons which can be customised.
The programme offers the possibility to check, at all times, the status of the Lighting, Automation and Burglar alarm system as well as the possibility to implement the home CCTV. The application is marketed with the code MHVISUAL. The Software can communicate with MY HOME systems in two ways:
- via the L4686 SCS serial interface (or USB-SCS 3559) connected to the PC serial port and to the system BUS;
- through an Ethernet network adapter in the PC for accessing one or more Web Servers.

MODE OF CONNECTION OF THE LOCAL PC TO USE THE MHVISUAL SOFTWARE

SERIAL MODE OF CONNECTION

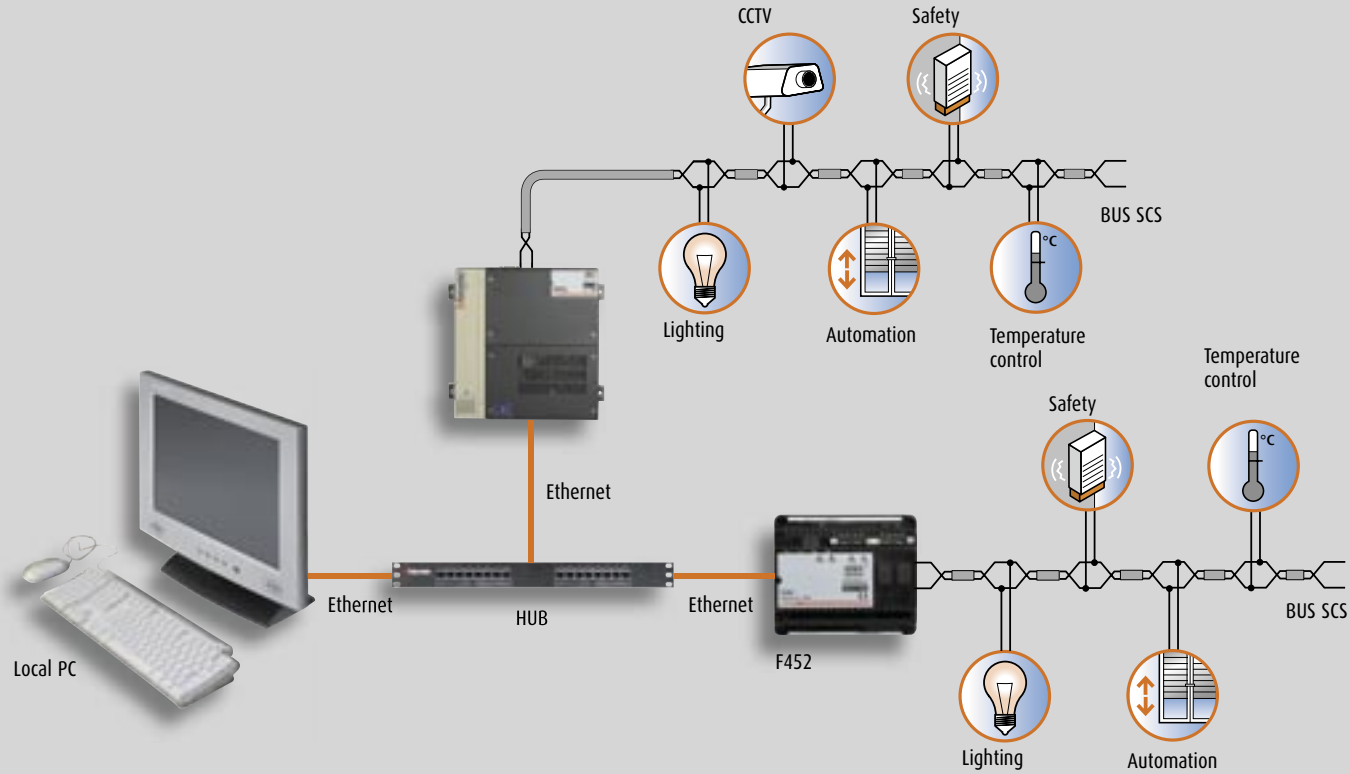
The Software can command just one system connecting to the SCS BUS by means of interface L4686 (or USB-SCS interface Item 3559).

It can command the lighting, automation and safety system.



LAN MODE OF CONNECTION

The Software can command one or more MY HOME systems from the same local PC by using a HUB and F452, F452V or MHSERVER2 devices. Using the F452V or of the MHSERVER2 the CCTV functions can be implemented.



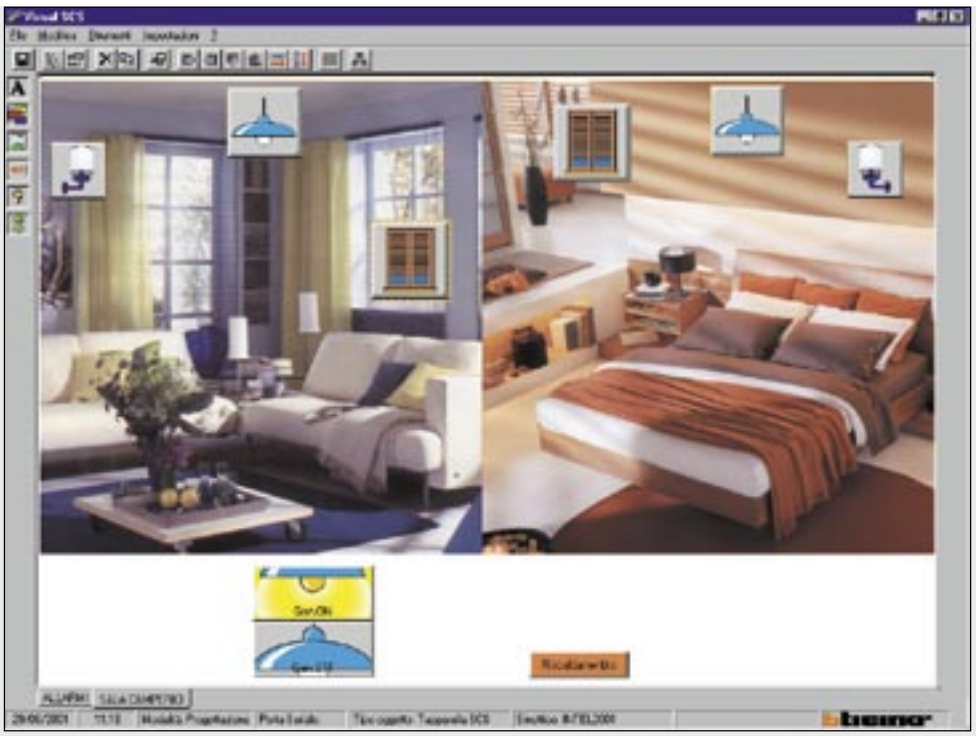
Monitoring and control software

VISUAL SCS

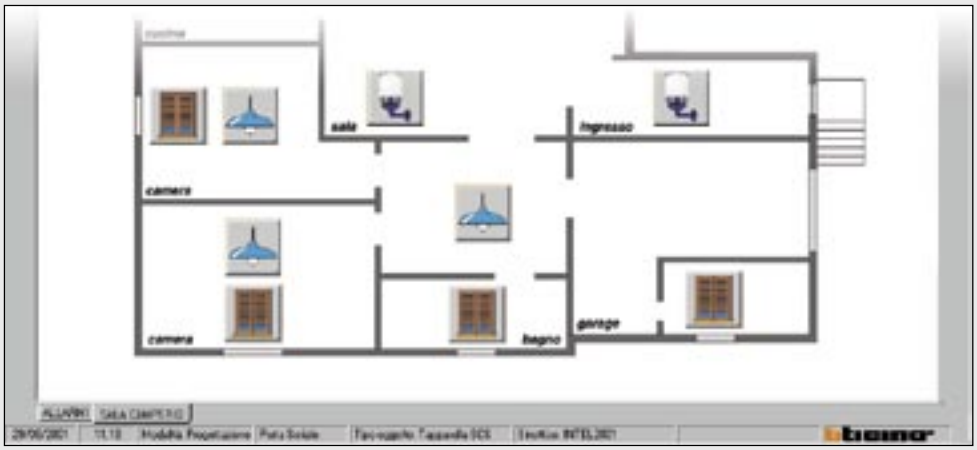
Via an easily personalised graphic interface this program can command and control via PC the My Home system automation and lighting devices. Visual SCS can in fact create a graphic representation of the system to be controlled in which the real devices are represented with the aid of pre-established icons which in any case can be personalised (e.g.: lamp, blinds, fan).

The program can also check the state (ON or OFF) of the users represented by the different icon colour at any time. The application supplied with the interface Item L4686 (3559) and with the Web Server Item F452, F452V and Item MHSERVER2, can dialogue with the My Home systems in two ways:

- via the interface mentioned connected to the PC serial port and the system BUS;
- via an Ethernet card in the PC for access to one or more Web Servers.



Example of a synoptic panel to check an individual room



Example of a synoptic panel to check the home

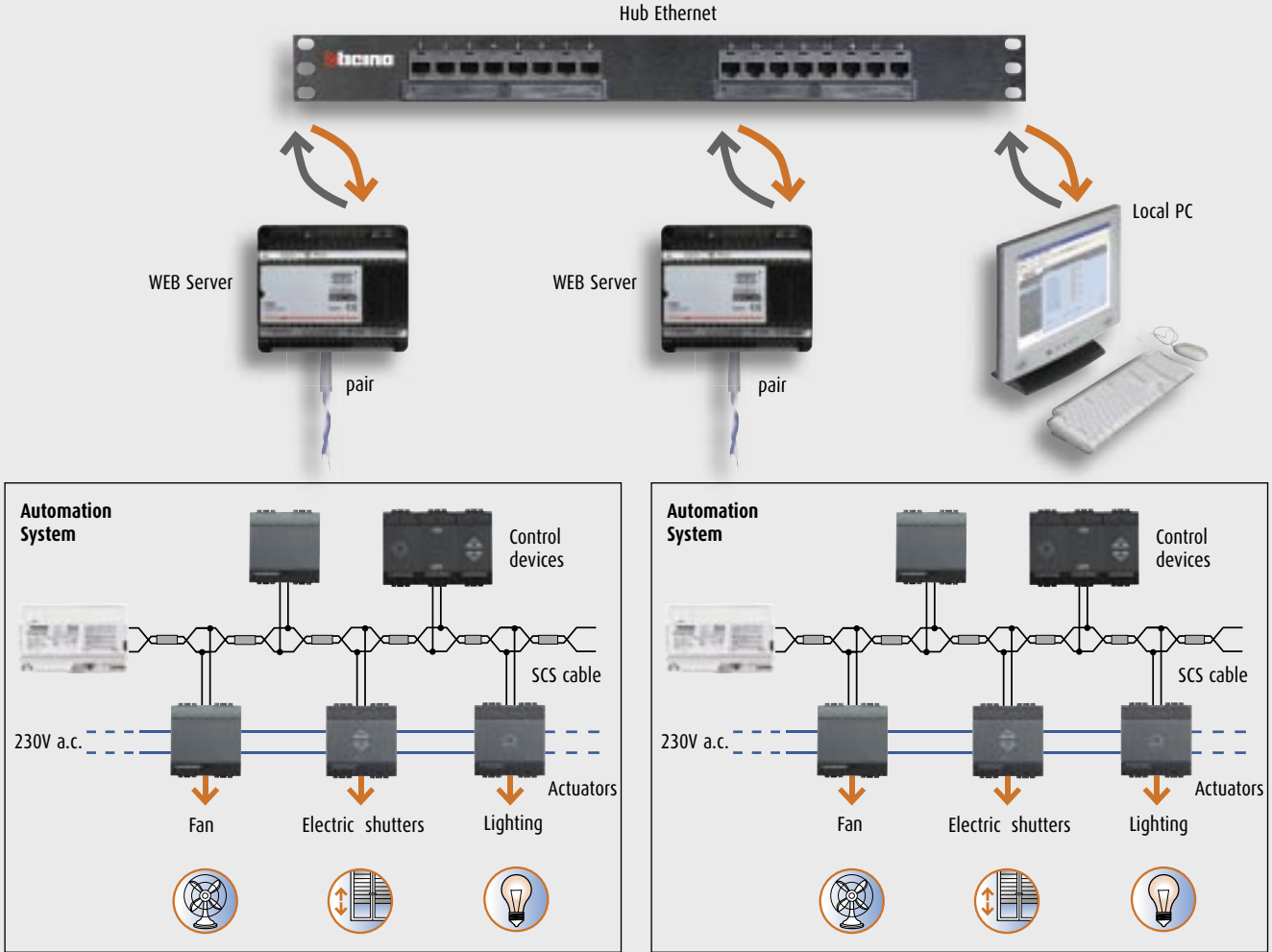
SCS ACTION

With a PC the program can create special commands called Scenarios (1) and can activate them daily, weekly or yearly.
SCS Action is applied in the public sector and in surroundings where electrical devices must be operated on a periodic basis.
An example of use is given by the need to control the switching on of devices, machine tools, industrial heating systems etc. automatically at pre-set times different from those of work, avoiding the use of many traditional timers.
Each system to be controlled is connected to the remote PC via Web Server connected to the Ethernet.

NOTE: (1)
The term Scenario means a particular situation in the surroundings defined ad hoc by the user and represented, e.g., by the operation of some lights, electrical devices, positions of blinds, etc., required to perform a particular activity or to create comfort in the home.

SCS ACTION SERVER

This program allows several My Home systems connected via Web Server on an Ethernet network to interact.
An event or a command given on a system can activate other scenarios created with the SCS Action application in other My Home systems.
Because of its flexibility of use this program, like SCS Action, is applied in the public and hotel sectors for the management e.g. of several complex scenarios which cannot be achieved using just the scenario control unit Item N4681 and scenario module (item F420).
The scenarios can be activated at a pre-set time or following events generated by the same My Home system, such as activation of burglar-alarm detectors, technical alarms, devices connected to the interfaces



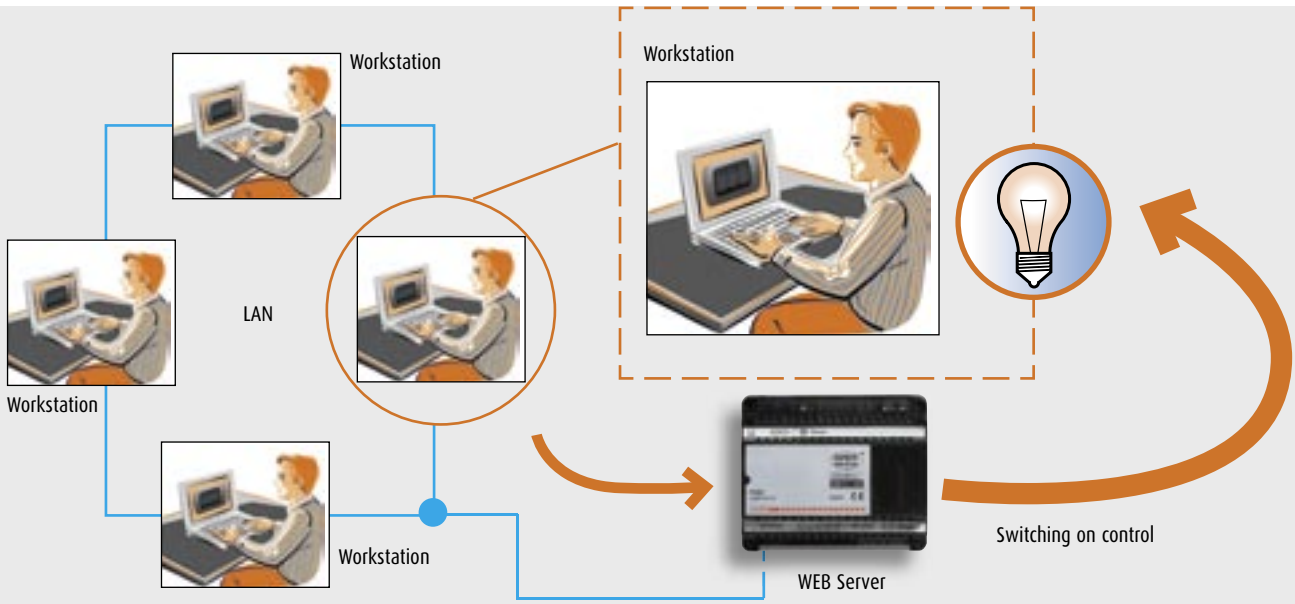
Monitoring and control software

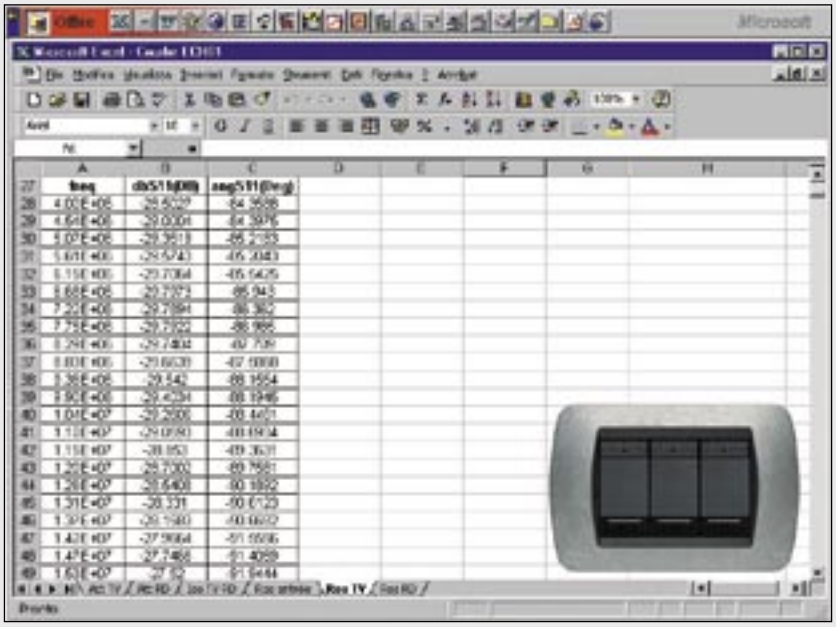
VIRTUAL SWITCH

The Virtual Switch program is applied in public open-space surroundings and in large offices where the wall-mounted control points of the lighting and curtains cannot be easily reached from distant workstations.

The program can create on the PC monitor a user interface made up of a BTicino Living International cover plate with three virtual switches which allow the personnel to interact with the My Home system without reaching the commands on the wall.

The commands are transmitted from the PC to the system to be managed via Ethernet by means of a Web Server device.





Example of a screen with virtual cover plate and commands

Control devices

MHSERVER2

F452V

F452

WEB SERVER

Item	Description	No. of DIN mod.
MHSERVER2	WEB Server to monitor 2 wire audio/video systems and MY HOME one-family systems by means of WEB pages on LAN, internet or telephone line - allows two-way communication between user, anti-intrusion system, electrical system, temperature regulation and 2 wire video door entry system. It also implements the CCTV home functions - power supply 230V a.c.	
F452V	WEB Server to monitor and control video systems and SCS systems by means of WEB pages - allows two-way communication between user and SCS system. Implements the home CCTV functions.	6
F452	WEB Server to monitor and control SCS systems by means of WEB pages - allows two-way communication between user and SCS system	6

MHROUTER

F444

C9544

MH300

MH301

MH302

MH303

ADSL MODEM ROUTER

Item	Description
MHROUTER	Modem-Router ADSL with integrated 4 port Switch. To be used to connect WEB Servers by means of LAN. DHCP Server enabled. With Power supply and Management Software.
F444	DIN rail ADSL Modem Router. To be used for connecting WEB Servers through LAN. Power supply between 10 to 35V d.c. - 6 DIN modules.
C9544	HUB-Switch to be used with item F444 to create a LAN. Power supply between 10 to 35 V d.c. - 6 DIN modules.
MH300	Wi-Fi ADSL Modem Router. To be used for connecting WEB Servers to an ADSL. It allows wireless connection to the WEB Server and the creation of a Wi-Fi LAN. Power supply unit and management software included.
MH301	Wi-Fi Access Point. To be used in systems where an ADSL Modem router is already installed in order to create a Wi-Fi LAN. When used in "repeater" mode, it allows you to create Wi-Fi networks on different floors of a house. Power supply unit included.
MH302	USB/Wi-Fi interface to be used with fixed PCs with no Wi-Fi features.
MH303	PCMCIA/Wi-Fi interface to be used with Laptops with no Wi-Fi features.

Control devices

MHGSM

MHGSM

Item	Description	No. of DIN mod.
MHGSM	GSM module to monitor and control SCS systems by means of SMS and WAP. - allows two-way communication between user and SCS system.	6

3500
3500N

3500GSM

BURGLAR-ALARM CONTROL UNIT WITH DIALLING DEVICE

Item	Description
3500	Burglar alarm unit with integrated telephone dialling device.
3500N	Burglar alarm unit with integrated telephone dialling device. Set up for the connection of the new Bticino stereo sound system.
3500GSM	Burglar alarm unit with integrated GSM telephone dialling device. Set up for the connection of the new Bticino stereo sound system. When there is no GSM signal reception, the dialling device can be connected to the PSTN telephone line. Module with GSM antenna included.

F461/2

TELEPHONE ACTUATOR

Item	Description	No. of DIN mod.
F461/2	telephone actuator with 2 relays independent with contact in switchboard, power supply 230 V a.c.	3

MHVISUAL

MONITORING AND CONTROL SOFTWARE

Item	Description
MHVISUAL	Monitoring and control software for MY HOME systems. It allows you to locally control MY HOME applications.

GENERAL RULES FOR INSTALLATION MHSERVER2

Mode of connecting the Web Server to the remote Personal Computer
For the Personal Computer to dialogue with the Web Server it must be fitted with an Ethernet network card or a modem.
The Personal Computer and the Web Server can be connected with the following types of connection:

- in LAN
- in internet with modem/router MHROUTER (fixed or dynamic IP)
- in internet with ADSL modem (fixed IP)
- by means of the PSTN local telephone line
- in internet with PSTN modem

CONNECTIONS AND INSTALLATION LIMITS

The MHSERVER2 must be connected to:

- to the electrical mains 230V a.c., 50/60 Hz;
- Bticino Burglar alarm BUS (terminal 1-2);
- the video door-entry system BUS, Bticino 2-wire (terminal 7-8);
- to the Ethernet communication network and/or local telephone line.

- Installation and maintenance must only be carried out by trained personnel.
- Use insulated screwdrivers and do not touch the terminals directly to avoid electrostatic discharges.

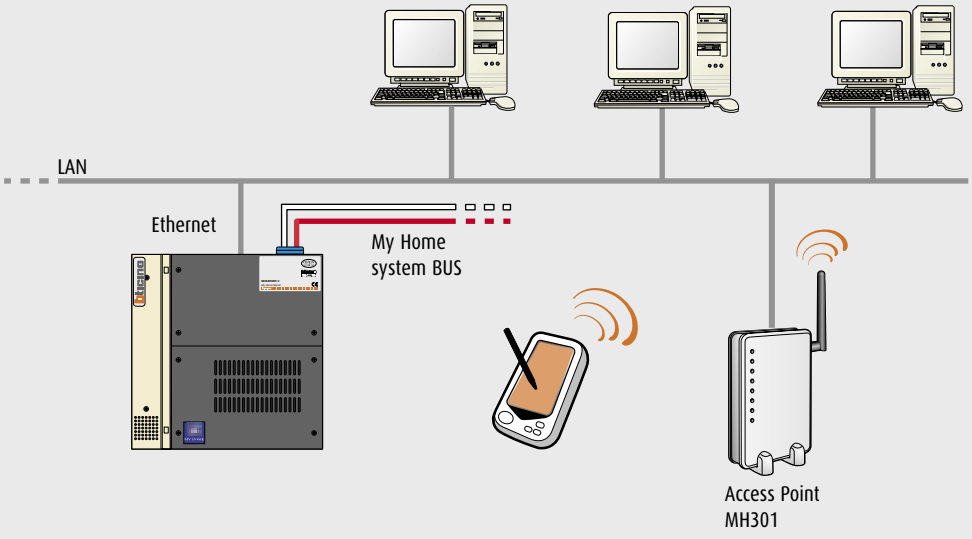
Comply with the following installation warnings:

- Do not install the Web Server in damp surroundings (e.g. laundries, swimming pools, and damp surfaces) or near heat sources (radiators, cookers or heaters).
- Do not install the devices in excessively dusty areas or where there are corrosive vapours.
- Room temperature from +5 to +40°C, relative humidity from 20% to 80% not condensing.

CONNECTION IN LAN

If the Web Server is directly connected to just one PC, it is connected using a crossed UTP cable.
If the Web Server is connected to one or more Personal Computers via a Local Ethernet network (LAN), it is connected by a concentrator device (HUB) and by an uncrossed UTP cable.

When using Wi-Fi devices, it is necessary to use a Wi-Fi Access Point (MH301) in the system. However, in order to achieve communication between the Personal Computer and the WEB Server, it is necessary to configure both devices, thus providing a consistent static IP address and Subnet Mask (belonging to the same "class").

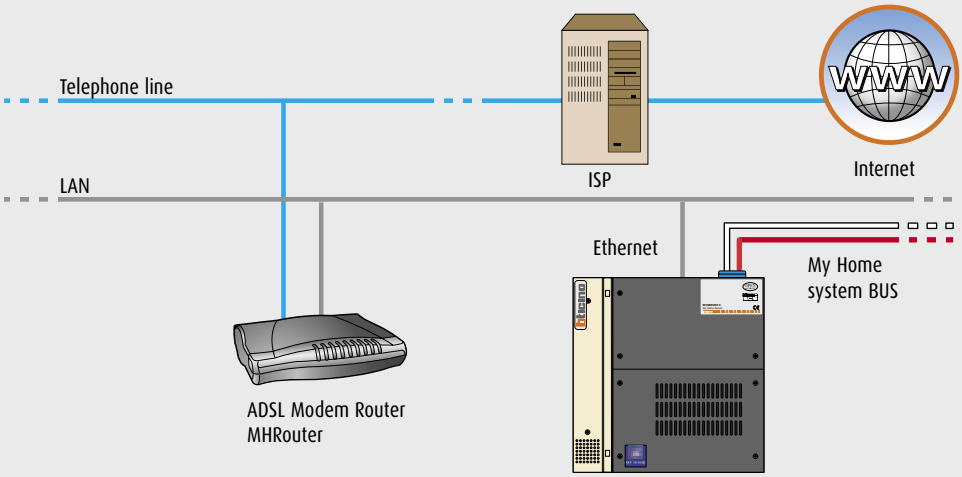


GENERAL RULES FOR INSTALLATION MHSERVER2

CONNECTION THROUGH INTERNET WITH MHROUTER (FIXED OR DYNAMIC IP)

In this case, the WEB Server is connected to the public telephone line by means of an MHROUTER modem/router.

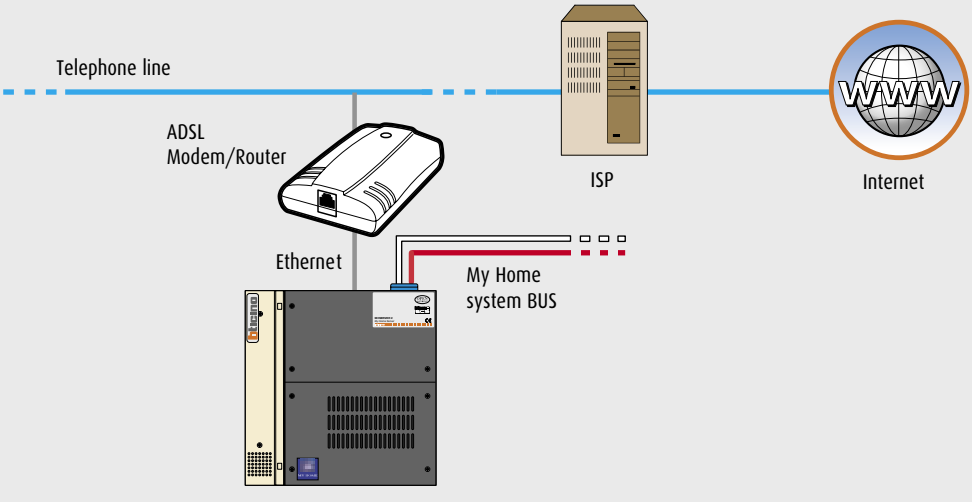
To activate MY HOME WEB service, a fixed or dynamic IP ADSL connection needs to be established.



CONNECTION THROUGH INTERNET WITH ADSL MODEM (FIXED IP)

In this case, the WEB Server is connected to the public telephone line by means of an ADSL (Asymmetric Digital Subscriber Line) modem/router.

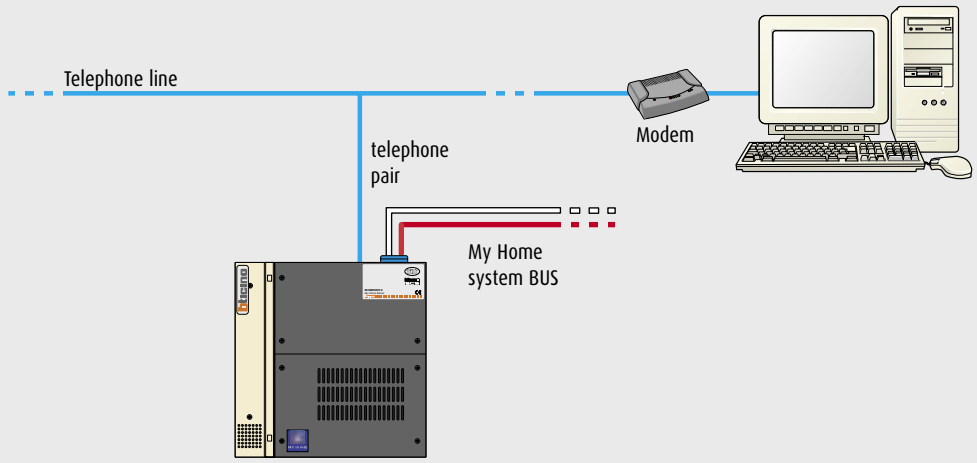
To access the necessary functions from your PC, a connection with any ISP (Internet Service Provider) needs to be established, and the ADSL modem/router needs to be appropriately configured.



CONNECTION THROUGH TELEPHONE LINE

Using the public telephone line and the WEB Server internal modem, a Point-to-Point connection with a remote PC fitted with a modem can be established.

The connection is established from the remote PC using the Windows "remote access" function, specifying, instead of the Internet Service Provider (ISP) telephone number, the telephone number to which the WEB Server internal modem answers.

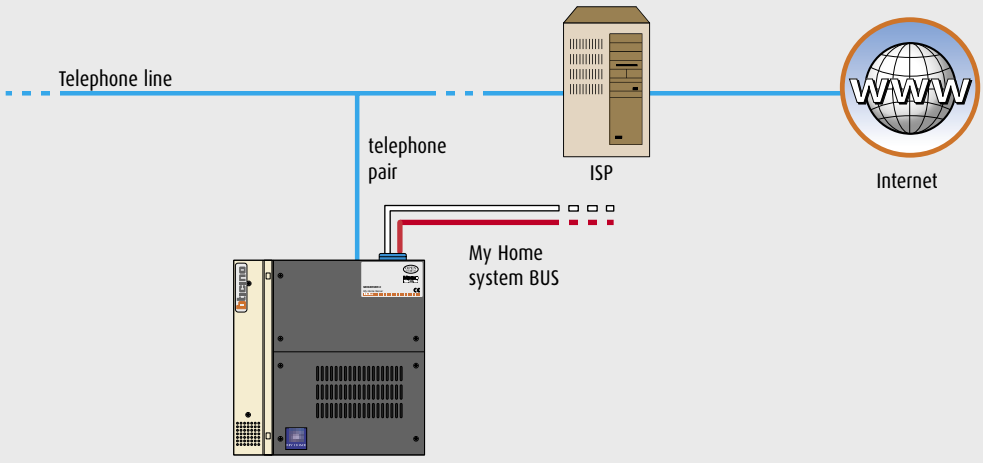


CONNECTION THROUGH INTERNET

Connection through the Internet with a PSTN modem (only to send e-mails through the modem)
This function uses the public telephone line and the WEB Server internal modem to activate a temporary connection with the remote PC to send an e-mail following events such as:

- burglar alarm system
- technical alarms
- call from the video door entry entrance panel.

The e-mails are sent to an electronic mail box, managed by an Internet Service Provider (ISP), whose configuration parameters (POP server address, login, and password) are specified in the TiWEB programme "Setup" section. If the remote PC is configured to manage the e-mail via the Internet, the user will be alerted in real time whenever the above-mentioned events occur in his/her home.
The user will then be able to interact more with his/her home, establishing the connection to the WEB Server and enabling, through Internet Explorer, the display of the pictures sent by one of the video cameras installed in the room involved.



GENERAL RULES FOR INSTALLATION F452, F452V and MHGSM

The Ethernet cable should **not be a crossover** cable (pin to pin) if the WEB Server is connected to a 10BASE T-type HUB. It should be a **crossover** cable if the WEB Server is connected directly (point-to-point) to a PC. If the correct cable is used, the green LED of the device will flash (more or less fast) whenever network traffic is detected.

During the first installation and whenever the setting of the WEB Server or the GSM module needs to be modified, the interface cable (item 335919) needs to be connected to the PC serial port. The same cable will have to be used in case of an upload of the setting already saved in the WEB Server or in the GSM module and whenever the firmware is upgraded.

WARNINGS

- Installation and maintenance procedures shall be carried out by qualified personnel only.
- Use insulated screwdrivers and do not touch the terminals to prevent electrostatic discharges.
- Do not install the WEB Server or the GSM module near water (for example, laundries, swimming pools, damp surfaces) or heat sources (radiators, stoves, heaters).
- Do not install the device in particularly dusty places or in the presence of corrosive vapours.
- Room temperature from +5° to +40°C, relative humidity ranging between 20% and 80%, non-condensating.

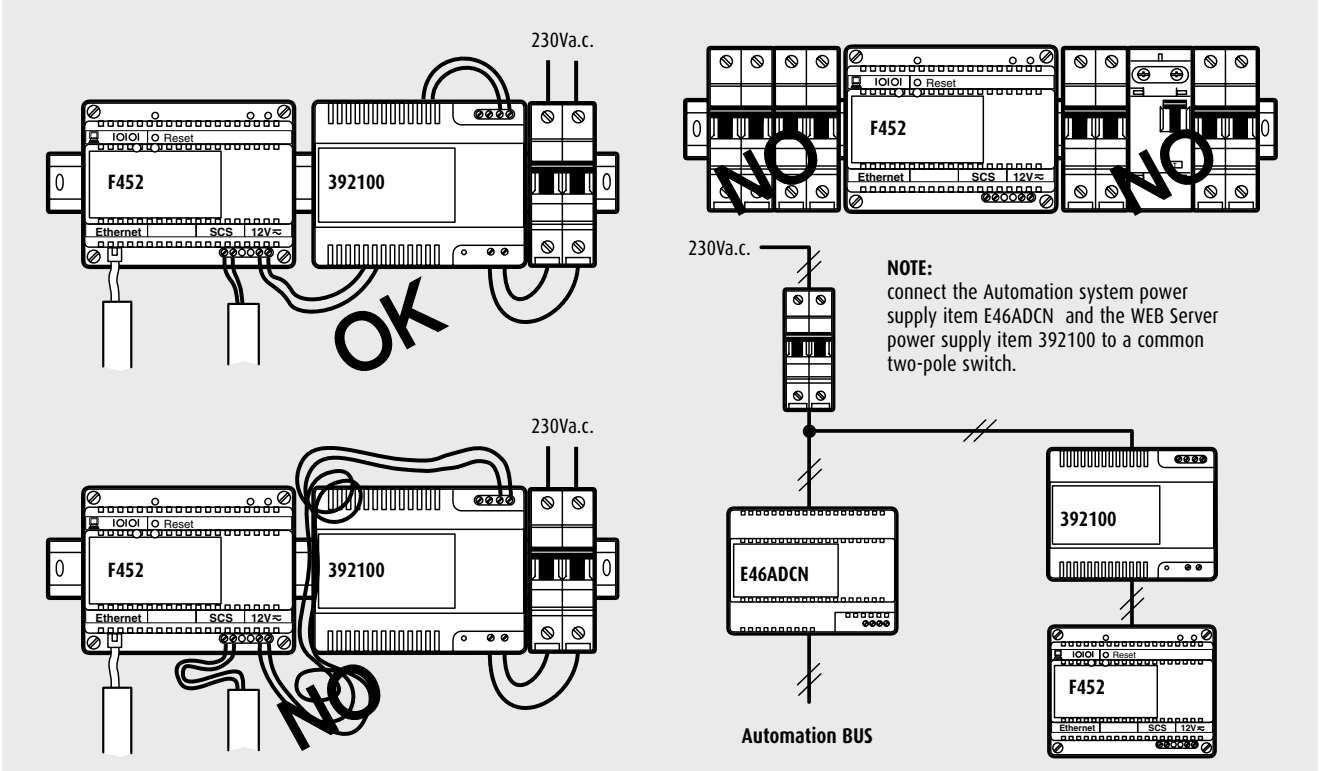
The WEB Server installation requires a connection:
- to the mains by means of a dedicated power supply item 346000 (for item F452V) or item 392100 (for item F452);
- to the video camera(s) of the CCTV system (only for WEB Server item F452V);
- to the automation system bus;
- to the 10BASE T Ethernet communication network.

The GSM module installation requires a connection:
- to the mains by means of a dedicated power supply item 392100
- to the automation system BUS;
- to the GSM network by inserting the SIM Card in the appropriate housing

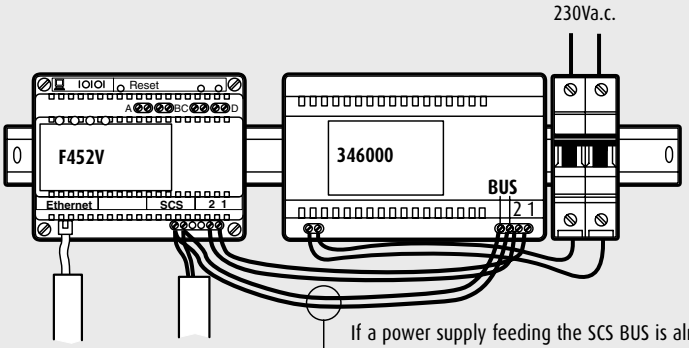
INSTALLATION AND MAIN OPERATIONS

1. Carry out wiring operations as described below and in the following page.
2. Install the TiServer programme (for items F452 and F452V) or the TiWEB programme (for item MHGSM) on the PC which will be used for the configuration. The PC should be connected to the WEB Server or the GSM module through the serial port using item 335919 (please see the TiWEB or TiServer user manual).
3. Define the static (fixed) IP address of the WEB Server and the Subnet Mask of the Ethernet network to which the device will be connected (for items F452 and F452V).

F452 INSTALLATION RULES

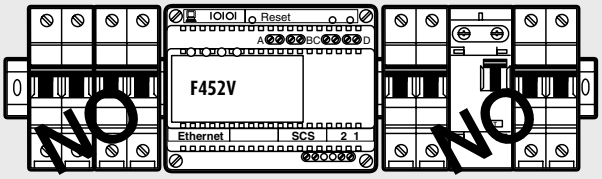


F452V INSTALLATION RULES



Carry out wiring operations in an orderly way

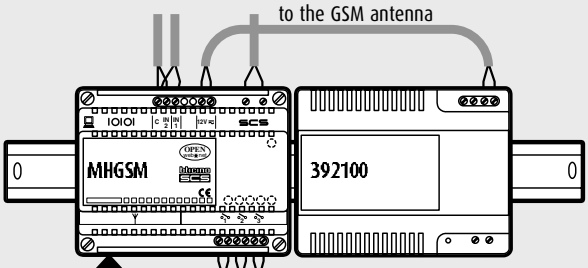
If a power supply feeding the SCS BUS is already present, do not connect the WEB SERVER to the BUS terminals of item 346000.



Do not move devices which may cause electromagnetic interferences close to the WEB Server video

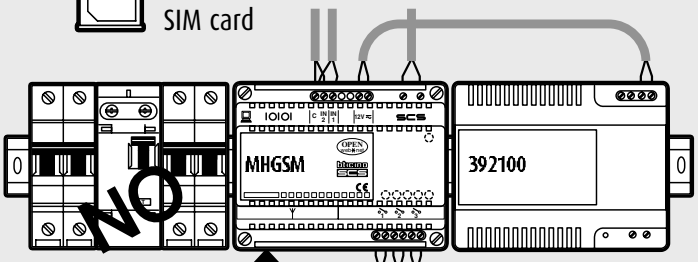
MHGSM INSTALLATION RULES

Do not move the BUS cable close to the GSM antenna



Carry out wiring operations in an orderly way

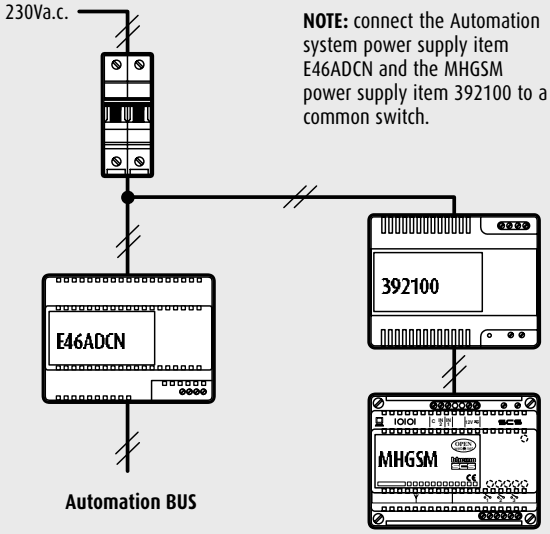
SIM card



Do not move devices which may cause electromagnetic interferences close to the MHGSM

SIM card

Do not move the power supplies of the Burglar alarm and Automation systems close to the MHGSM



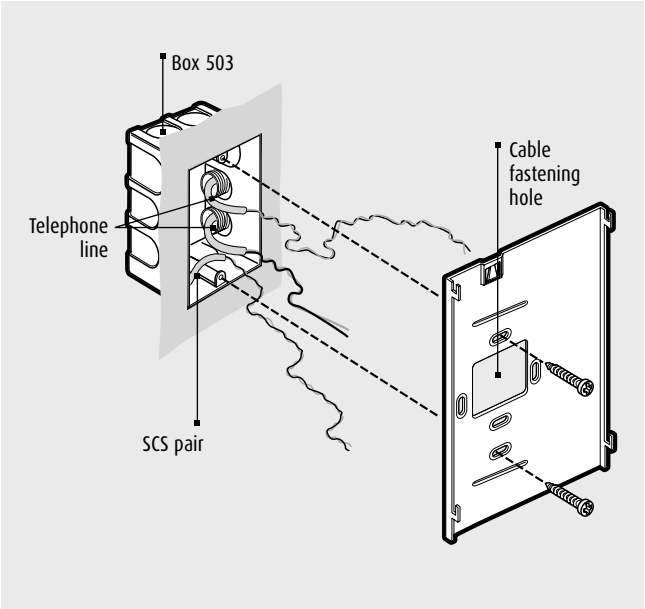
NOTE: connect the Automation system power supply item E46ADCN and the MHGSM power supply item 392100 to a common switch.

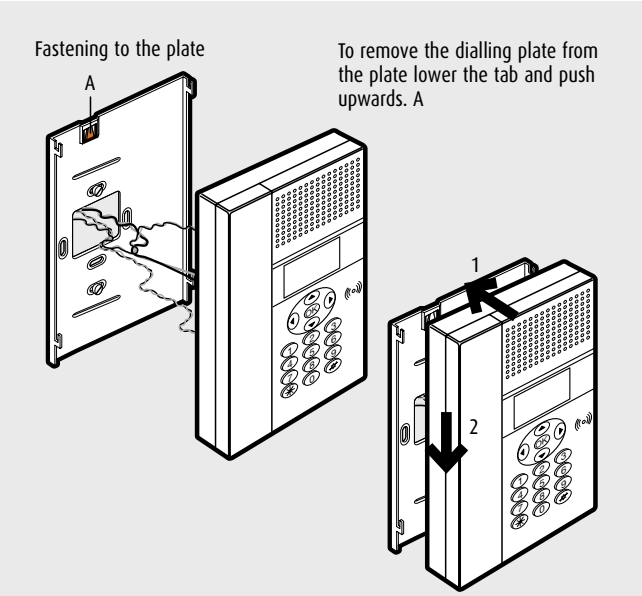
NOTE: to ensure correct functioning, the device should be installed in an area where the GSM signal of the chosen telephone provider is good. For additional information on the strength of the GSM signal or the use of an external antenna, please see the Installation Manual.

WARNING: antenna connection operations and the SIM card insertion and removal must be carried out when the device is not being supplied.

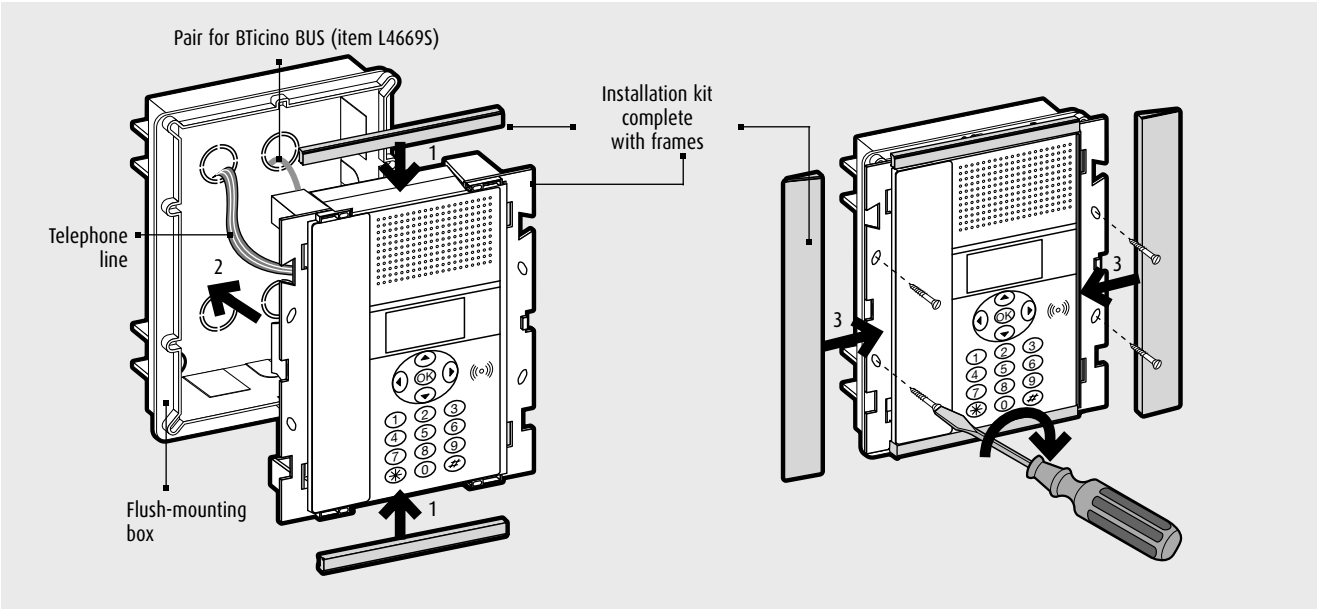
GENERAL RULES FOR INSTALLATION- Burglar alarm control unit with dialling device and telephone dialling device

The dialling device can be installed in any room in the home, in an easily accessible area for easy modification of settings or reading of events.
The dialling device can be installed on the wall using the fastening plate.





Or flush-mounted in a Multibox switchboard



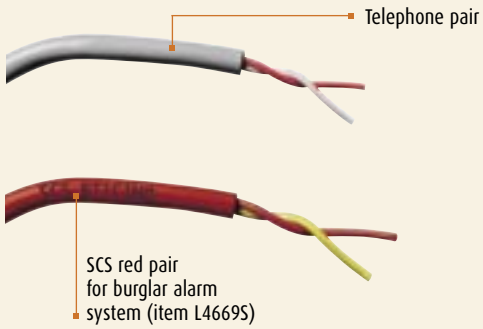
After establishing the exact point where the dialling device must be installed set up the system; trunking for the passage of the cables for BUS and telephone system, flush-mounting box and any finishings if installed in MULTIBOX switchboards.

Before fastening it, make the connections as described in the technical features – terminal board connection, insert and connect the back-up battery in the compartment on the back and for installation in MULTIBOX move the tamper jumper from -/T1 to - /T2.

NOTE: detailed information on the installation in Multibox switchboards can be found in the instruction sheets with the switchboards themselves.

USABLE CABLE

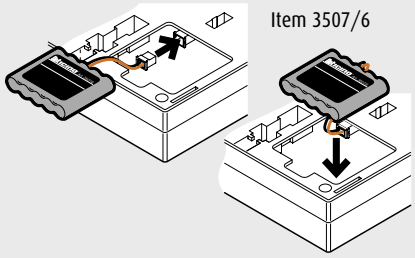
The sheathed, non-shielded, twisted telephone pair or the red BTicino SCS pair for burglar alarm system (item L4669S) should be used to connect the device. The power supply, the operating signals and the alarm signals are distributed through this pair. **Interrupting or sabotage of the connections causes an immediate system alarm.**
The BTicino pair (Item L4669) is 300/500V insulated and therefore can be tubed with 230V a.c. cables



BACK-UP BATTERY

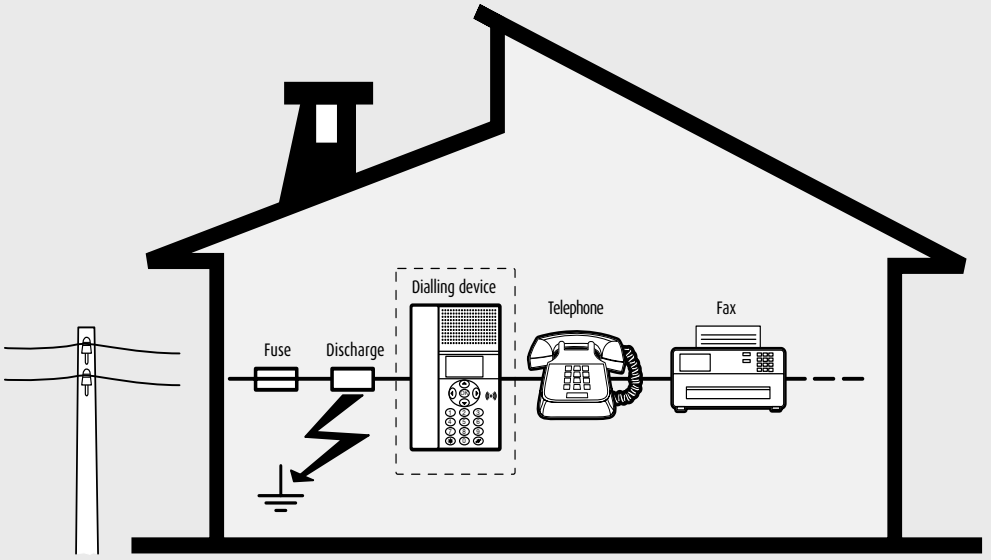
Connect the battery Item 3507/6 to the connector in the compartment on the back of the dialling device, after the battery has been put in the compartment itself and then connect to the BUS, to avoid the battery discharging uselessly.

Back-up battery connection



POSITION IN THE SYSTEM

The telephone dialling device must be the first component of the internal telephone system: it must be connected immediately downstream of the line protection fuses and of the surge arrester.



Example of the connection of the telephone dialling device inside a home.

GENERAL RULES FOR INSTALLATION
Telephone actuator

USE

Activation, deactivation and check commands
The activation, deactivation and check commands must only be sent to the actuator from a telephone with touch tone dialling (DTMF) connected to the fixed-line or the mobile network (mobile phone), while using telephones with pulse dialling (PD) or rotary dial the actuator does not work.
Two types of command can be sent to the telephone actuator:
Simplified commands
Commands formed of a small number of characters to type.
Complete commands (Open Web Net)
Commands formed of a large number of characters.
These commands belong to the BTicino "Open Web Net" protocol and are common to all the products belonging to the My Home family.

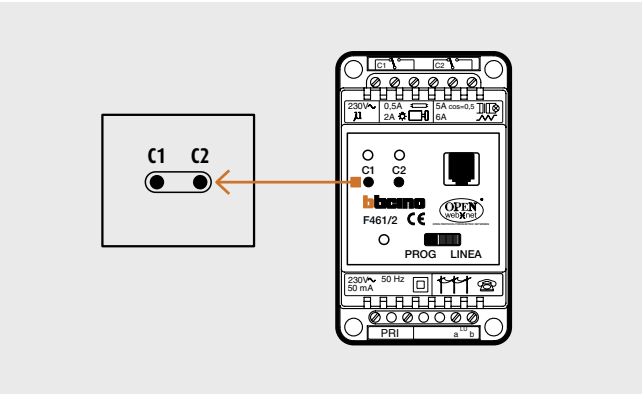
To use the actuator, the PROG/LINE selector (on the front part) should be moved to LINE and the green light should be permanently on. Activation, disabling, and check controls can be sent from an external line. Using the check command one can check the operating condition of the user (activated or deactivated) from a fixed-line or mobile telephone line.
If an answering machine is also present on the same telephone line, all actuators should be set to answer after the answering machine, setting a higher number of rings than those set for the activation of the answering machine.
The actuators only answer after a valid number of consecutive rings (call from outside telephone line or internal call from extension connected to the switchboard) which is the same as those programmed (base 5) while invalid rings are those produced by an auto-dial call.

Simplified commands for remote operation from telephone
This is the simple version of the activation, deactivation and check commands. These are made up of a limited number of characters, for easy use.

These commands can activate, deactivate or check the state of the relays of the main and secondary actuators and are valid for all modes - lighting, automatic operation and temperature regulation.

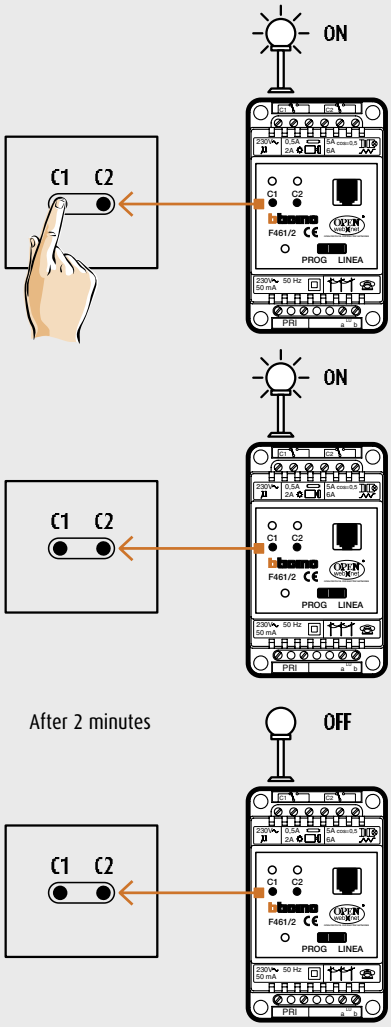
LOCALE COMMANDS THROUGH FRONT PUSHBUTTONS

The C1 and C2 pushbuttons allow to control (activate and deactivate) the relays in relation to the mode and function set.
The C1 pushbutton activates relay 1, the C2 pushbutton activates relay 2.

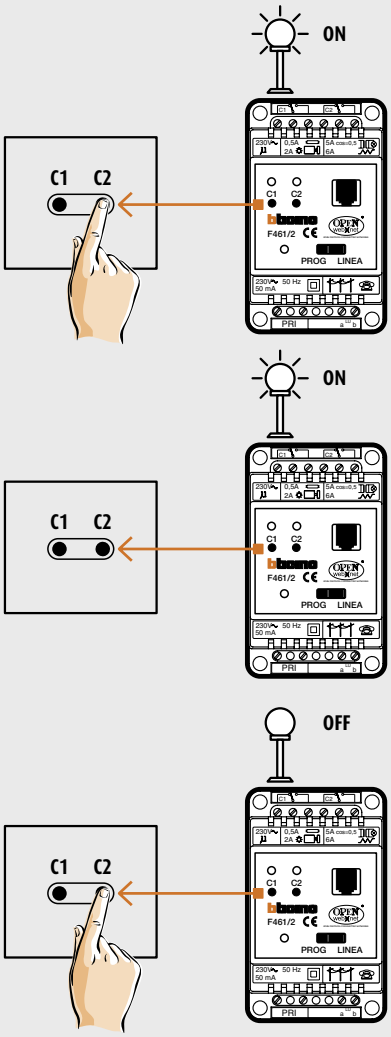


OPERATION AND TEST EXAMPLES

Garden lighting, “lighting” mode and pulse operation (monostable relay, e.g. for 2 minutes)



Garden lighting, “lighting” mode and “switch on-switch off” operation (bistable relay)



WIRING DIAGRAMS
MHSERVER2

DIAGRAM 1 CONNECTION TO THE 2-WIRE VIDEO DOOR-ENTRY AND MY HOME SYSTEM

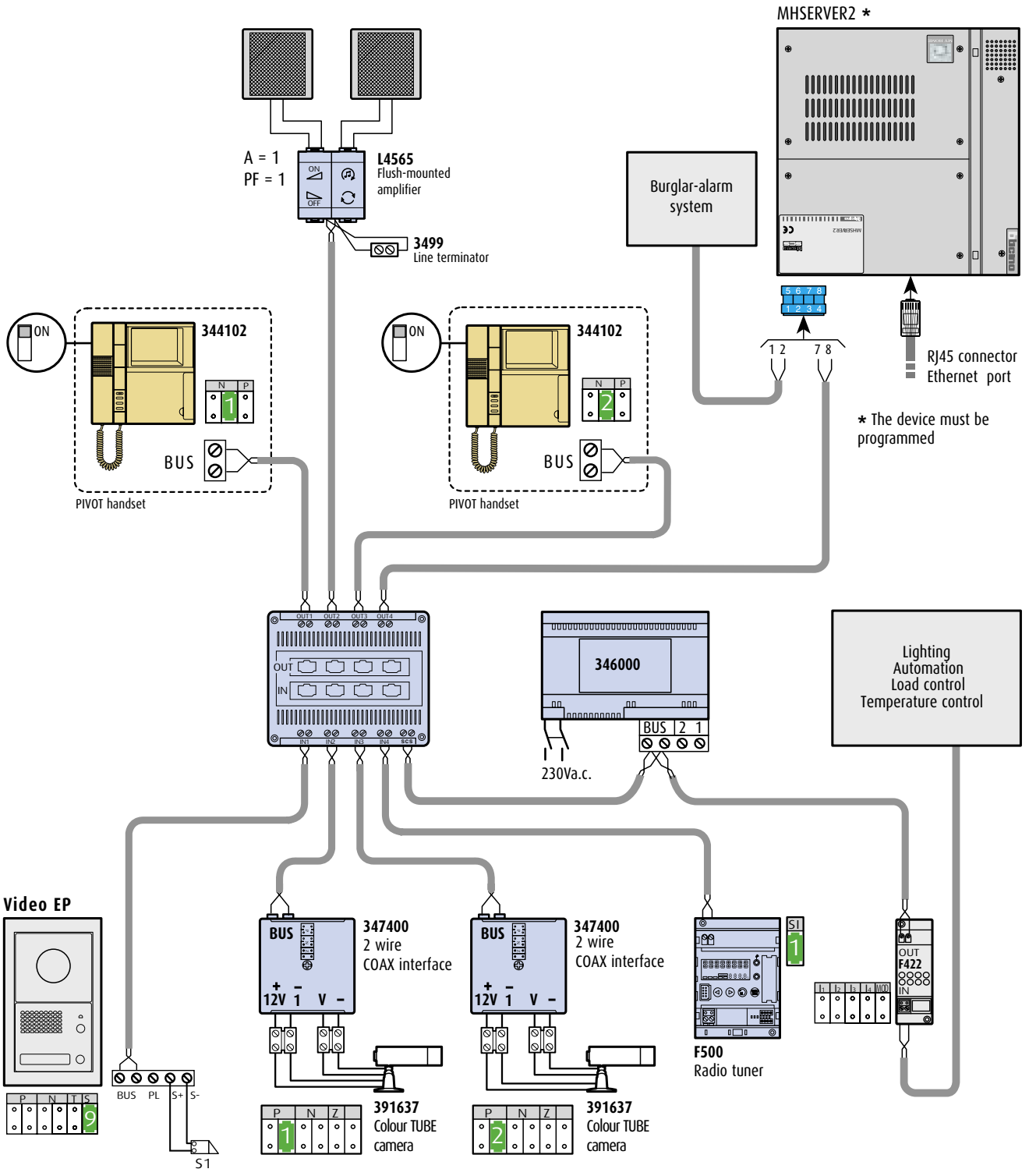
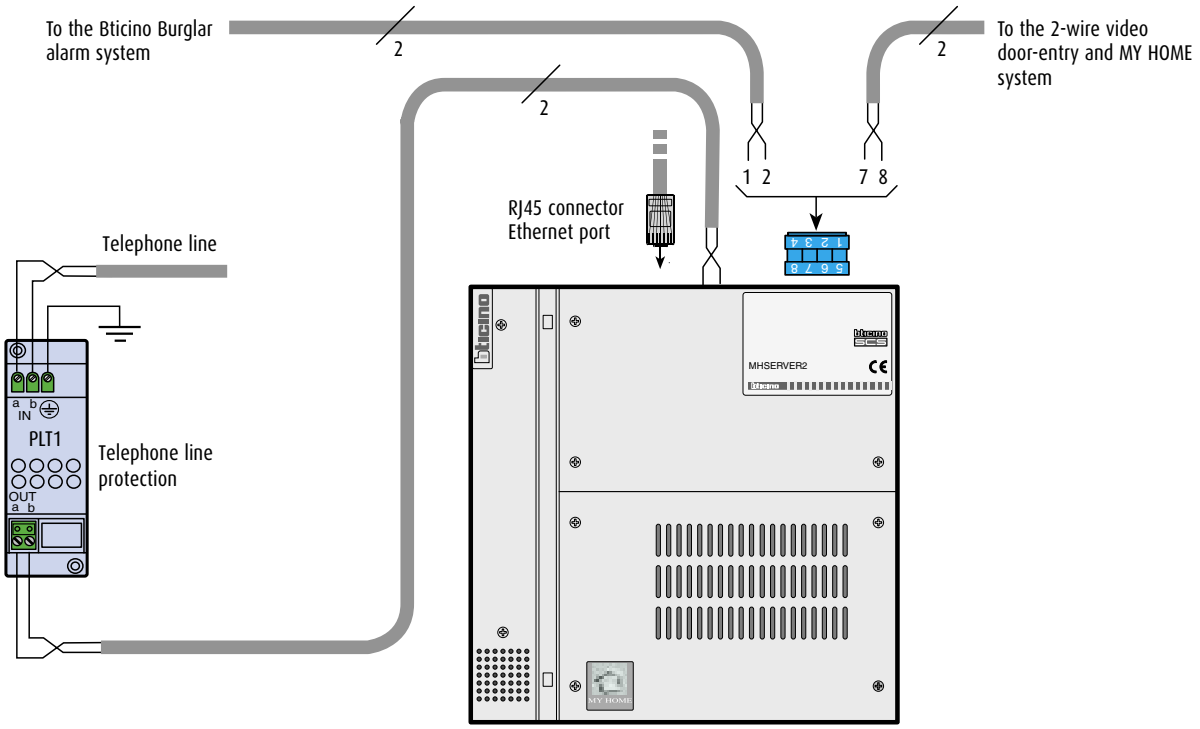
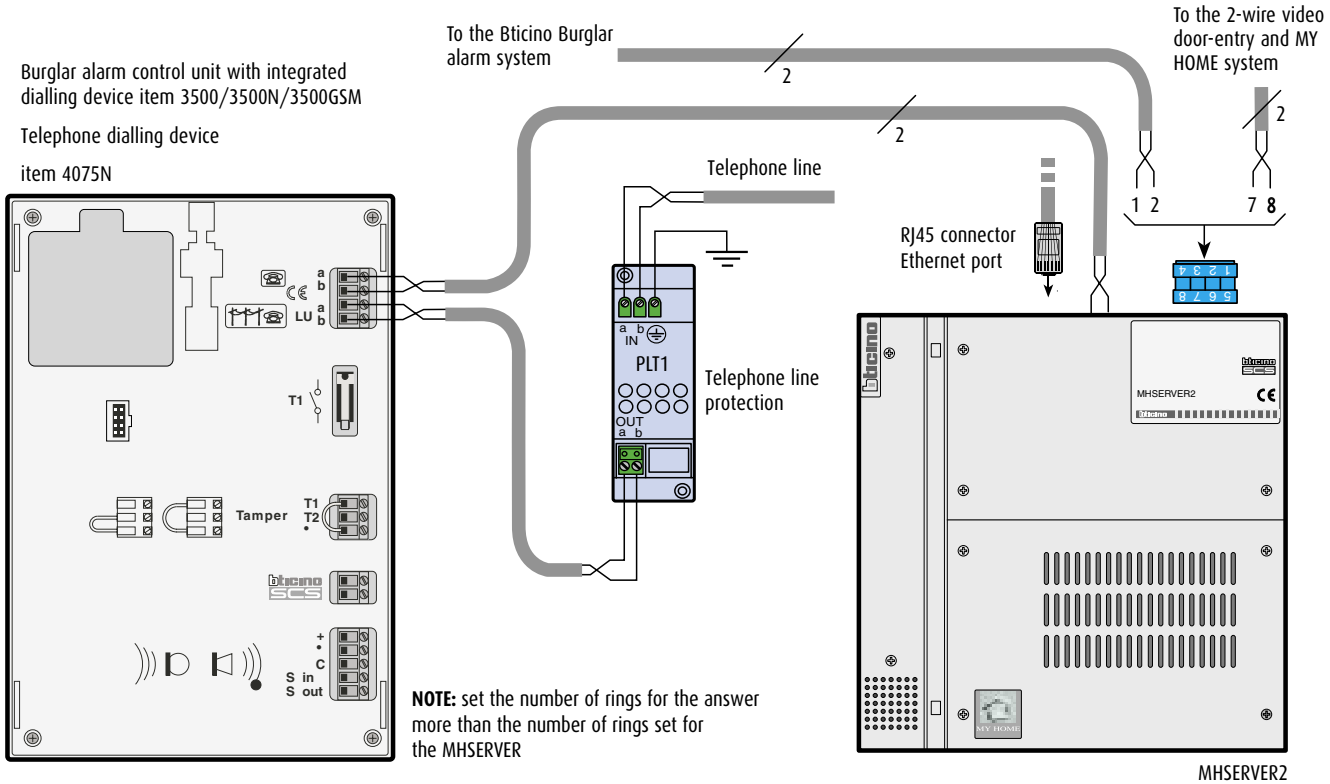


DIAGRAM 2 CONNECTION TO THE TELEPHONE LINE



MHSERVER2

DIAGRAM 3 CONNECTION TO THE TELEPHONE LINE AND TO THE BURGLAR ALARM CONTROL UNIT WITH DIALLING DEVICE ITEM 3500/3500N/3500GSM OR TO THE TELEPHONE DIALLING DEVICE ITEM 4075N



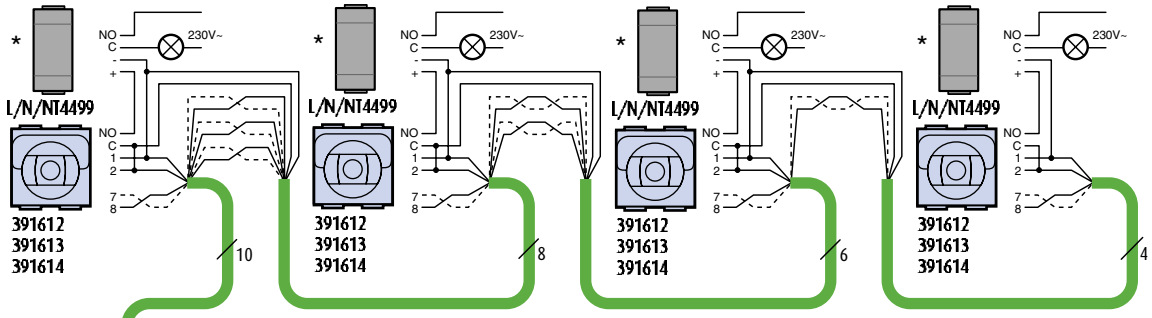
NOTE: set the number of rings for the answer more than the number of rings set for the MHSERVER

MHSERVER2

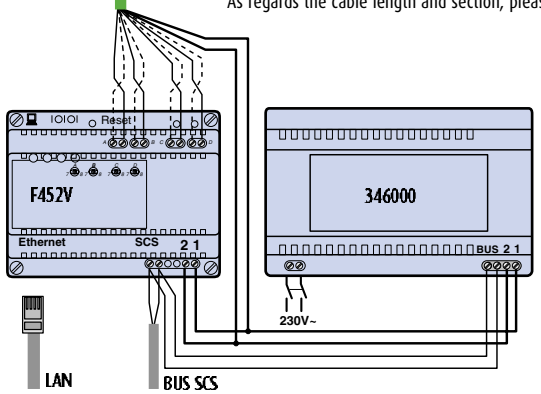
WIRING DIAGRAMS
F452, F452V and MHGSM

DIAGRAM 1 F452V - CONNECTION "IN SERIES" OF THE CAMERAS

* Optional whenever a light is to be switched on when the video camera is selected



As regards the cable length and section, please see the instruction sheet supplied with the Item



As for the connection of internal and external video cameras, use signal converter module, Item 337320

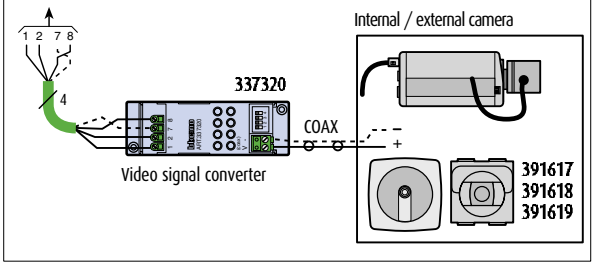
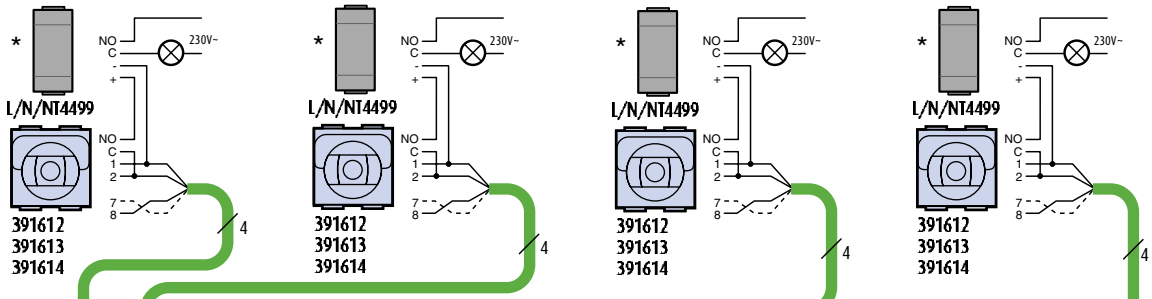
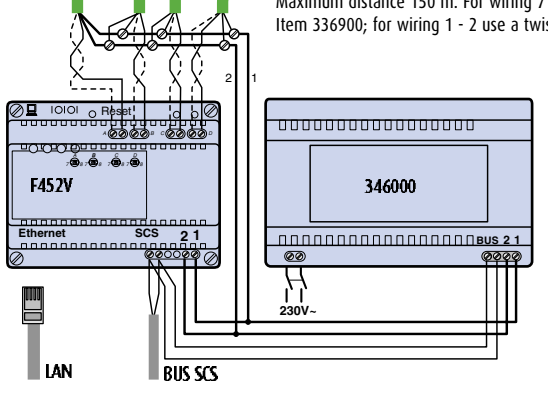


DIAGRAM 2 F452V - "STAR" CONNECTION OF THE CAMERAS

*Optional whenever a light is to be switched on when the video camera is selected



Maximum distance 150 m. For wiring 7 - 8 use a twisted pair, sect. 0,28 mm² or the 0.35 mm² twisted pairs of cable Item 336900; for wiring 1 - 2 use a twisted or non-twisted pair with section 028 mm² or above.



As for the connection of internal and external video cameras, use signal converter module, Item 337320

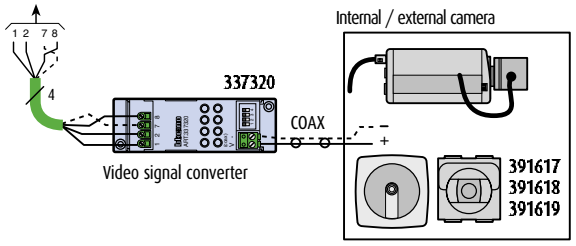
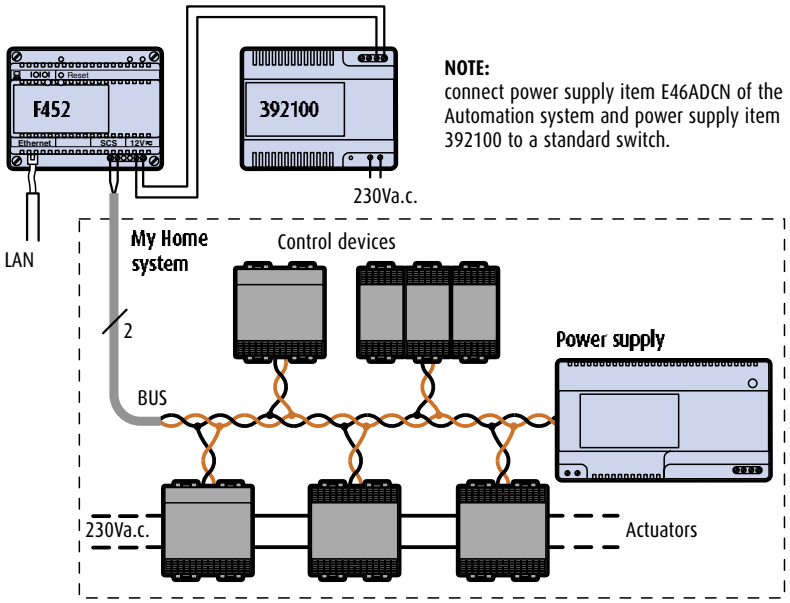
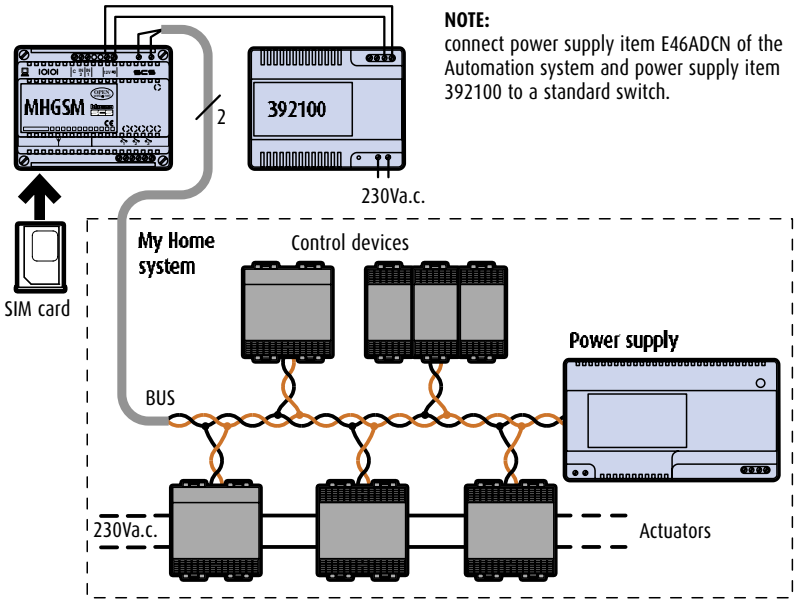


DIAGRAM 3 F452 - CONNECTION TO THE MY HOME SYSTEM



NOTE:
connect power supply item E46ADCN of the Automation system and power supply item 392100 to a standard switch.

DIAGRAM 4 MHGSM - CONNECTION TO THE MY HOME SYSTEM



NOTE:
connect power supply item E46ADCN of the Automation system and power supply item 392100 to a standard switch.

WIRING DIAGRAMS
Telephone actuator

DIAGRAM 1 DIRECT CONNECTION TO THE TELEPHONE LINE

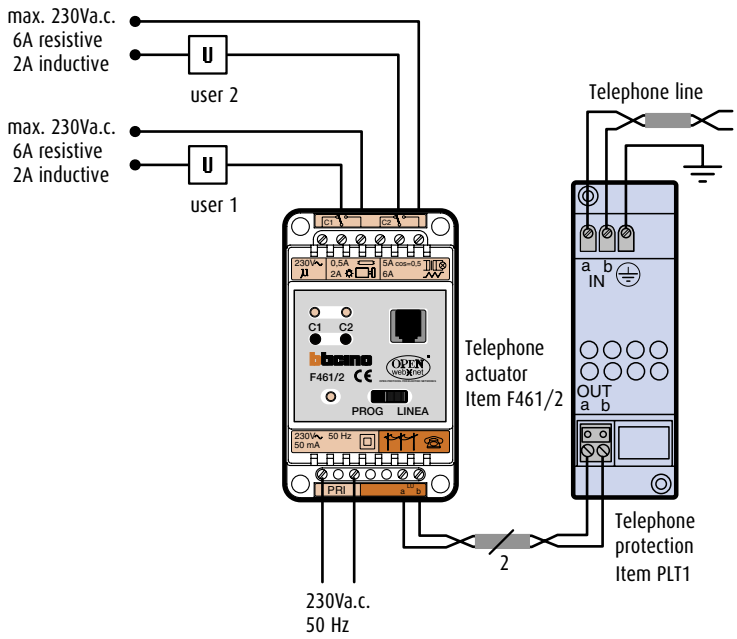


DIAGRAM 2 CONNECTION TO THE TELEPHONE LINE SUPPLIED WITH THE BTICINO TIMER THERMOSTAT ITEM L4449/N4449

Remote activation

Closed contact
manual antifreeze program

Open contact
automatic program (last selected)

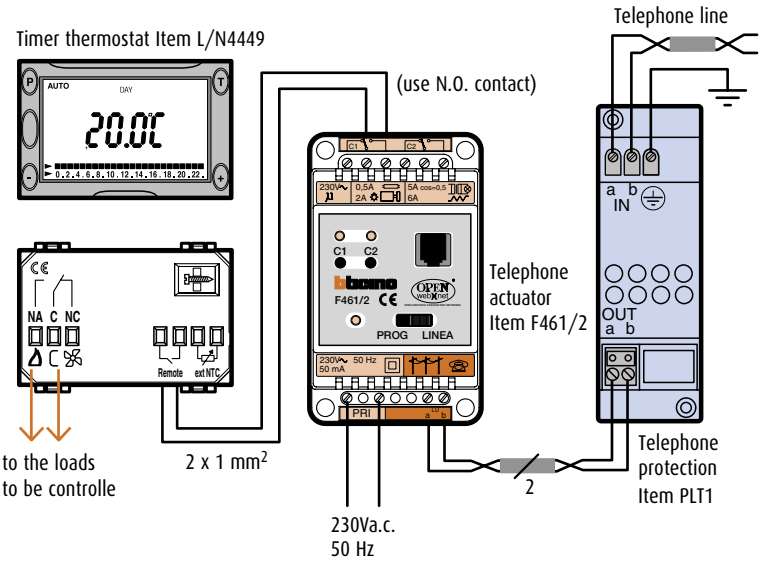


DIAGRAM 3 CONNECTION TO THE TELEPHONE SWITCHBOARD AS AN EXTENSION

The telephone actuator can be connected to an extension of a telephone switchboard (PABX), replacing the telephone.

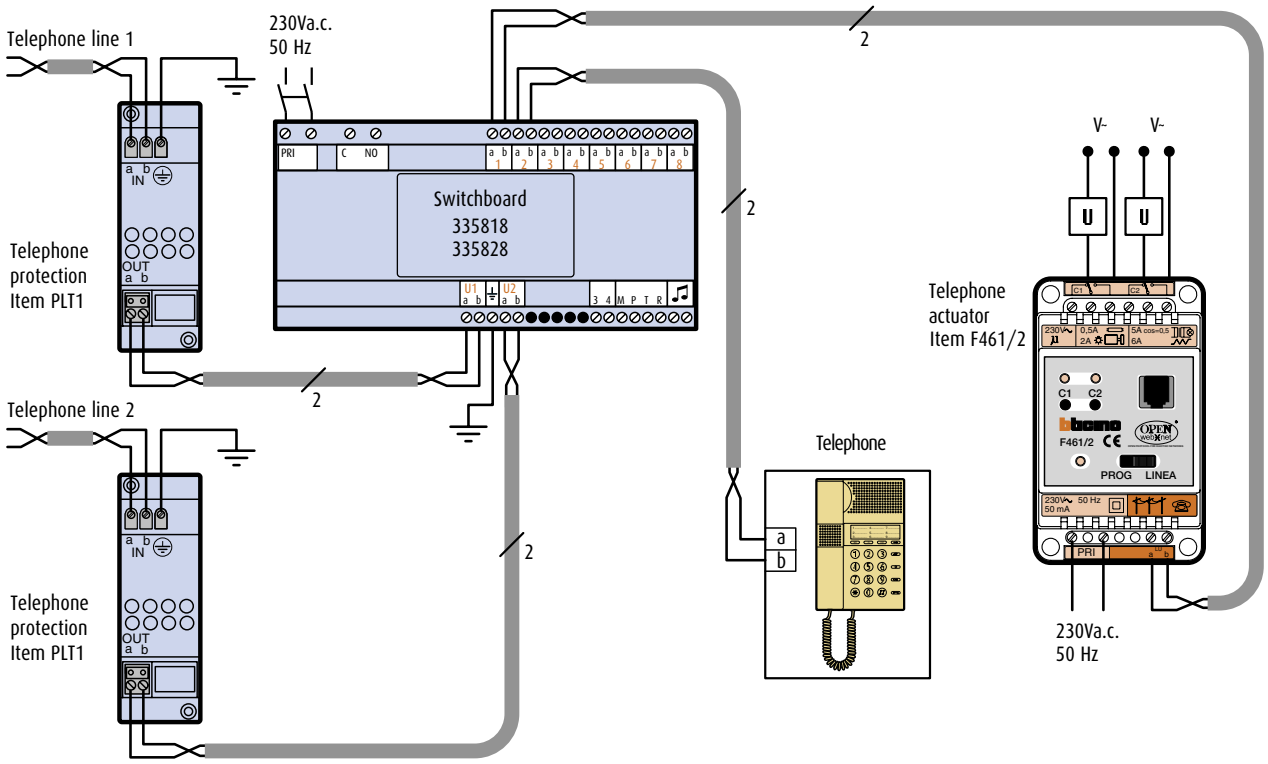
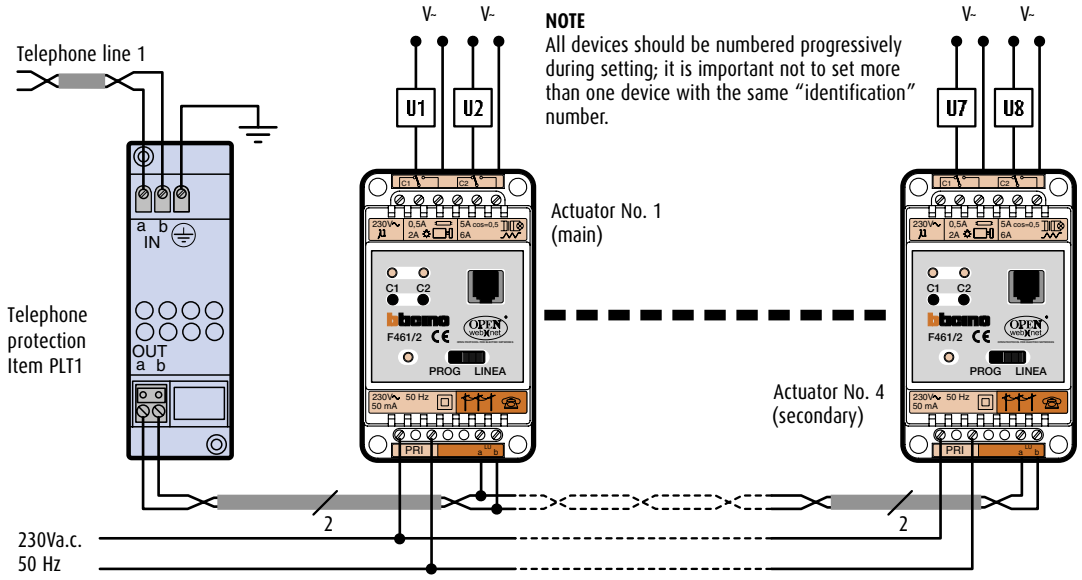


DIAGRAM 4 DIRECT CONNECTION TO THE TELEPHONE LINE WITH MORE ACTUATORS

Up to 4 devices can be connected to the same telephone call.



MHSERVER2 PROGRAMMING

PROGRAMMING THROUGH TISERVER SOFTWARE

The Web Server is programmed with a software called THSERVER2 whose installation and configuration are described in detail in the user manual in the CD supplied with the devices.
The following main parameters must be configured:

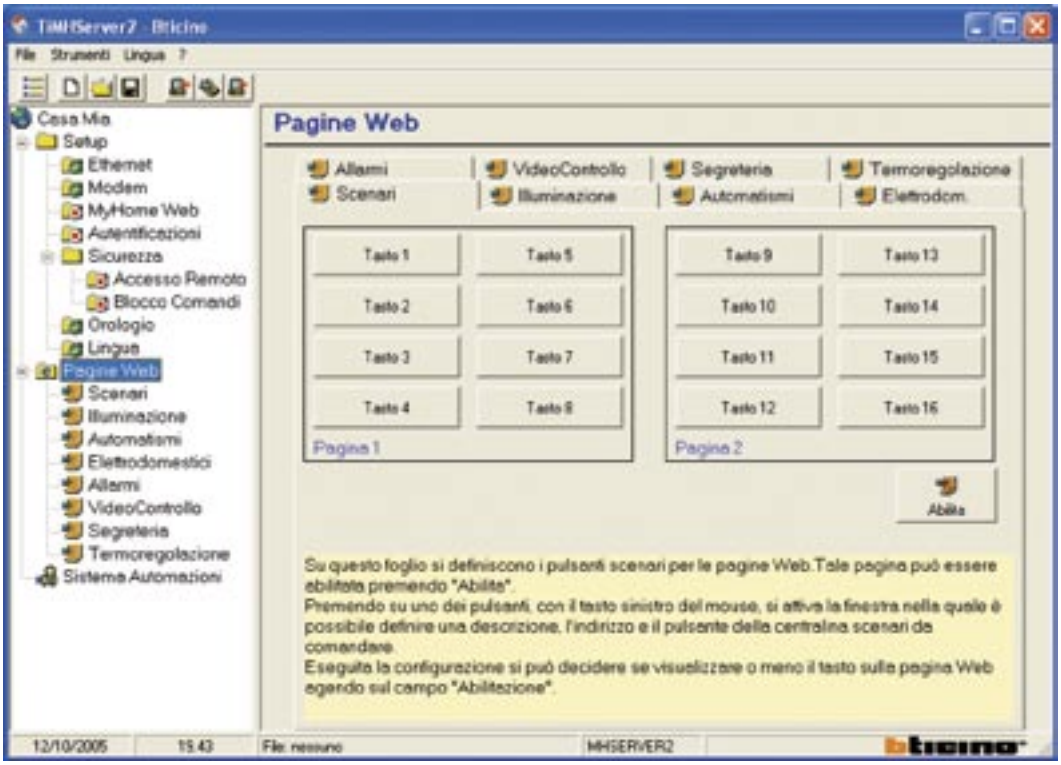
- IP address: This is the address for the communication of packets over the Internet needed to identify the Web Server. This address must be static (fixed).
  The "Subnet Mask" parameter, typical of networks which use the TCP/IP protocol, must be set together with the IP address.

- login and password: This is the identification name (login) and password for the connection. Those entered as default in the factory are "bticino", which the user can modify and personalise.

- e-mail address: This is the address for sending electronic mail warnings of intrusion and auxiliary alarms. The IP address of the SMTP (Simple Mail Transfer Protocol) Server must be set and if necessary that of the mail Router.

- Web pages: For the management and control, via buttons which can be personalised, of the devices of the Automation, Burglar-alarm, Energy Management and CCTV systems via remote PC with Internet Explorer 5.5 browser program or similar.

Example of programming of house automation scenarios with TiServer Software



PROGRAMMING THROUGH WEB PAGES

Other functions can instead be programmed directly from the Web page called with the remote control PC, without using the TiServer software. Accessing the configuration page the Administrator can define: system parameters (hour, date, local time, etc.), parameters for the video door entry answering machine (number of pictures saved and presentation message) and the language in which the WEB pages are going to be displayed.

Example of configuration page of video door entry answering machine

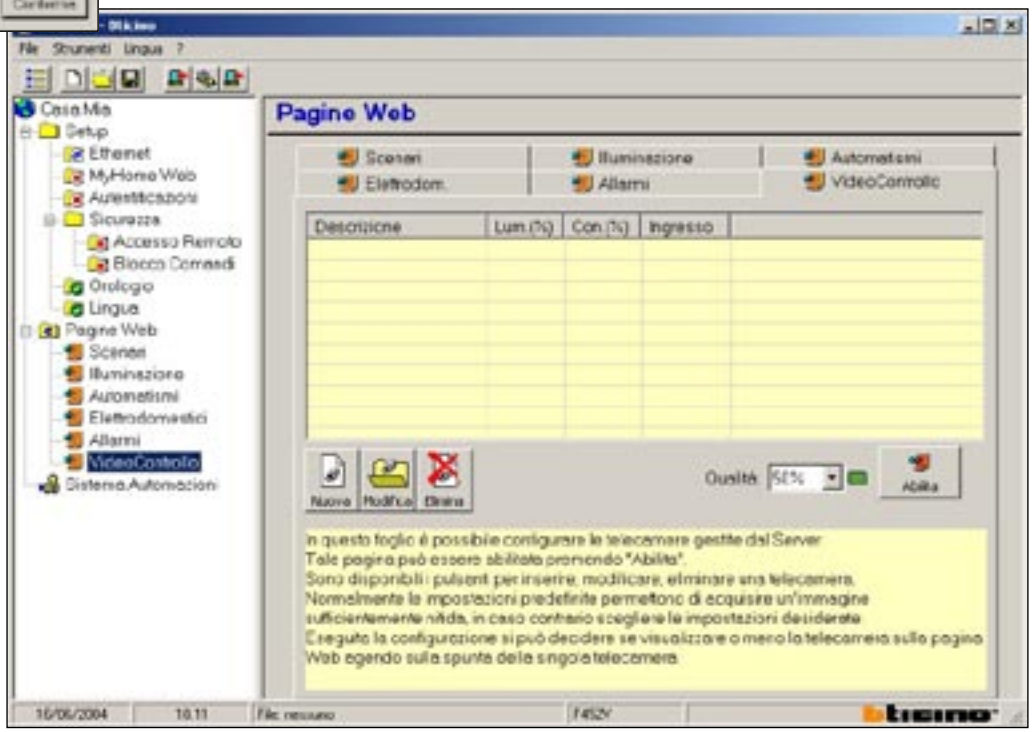
F452 and F452V PROGRAMMING

The Web Server (F452 and F452V) is programmed with a software called TiServer whose installation and configuration are described in detail in the user manual in the CD supplied with the devices.

The following main parameters must be configured:

- **IP address:** This is the address for the communication of packets over the Internet needed to identify the Web Server. This address must be static (fixed). If static (fixed) addresses are not available contact your network administrator. The "Subnet Mask" parameter, typical of networks which use the TCP/IP protocol, must be set together with the IP address. In this case also, contact your network administrator for the assignment of this parameter.
- **login and password:** This is the identification name (login) and password for the connection. Those entered as default in the factory are "bticino", which the user can modify and personalise.
- **e-mail address:** This is the address for sending electronic mail warnings of intrusion and auxiliary alarms. The IP address of the SMTP (Simple Mail Transfer Protocol) Server must be set and if necessary that of the mail Router.
- **web pages:** For the management and control, via buttons which can be personalised, of the devices of the Automation, Burglar-alarm, Energy Management and CCTV systems via remote PC with Internet Explorer 5 browser program or similar.

Screen page of the TiServer programme for the definition of the features of a video camera in the WEB Page "CCTV"



Screen page of the TiServer programme where the number of video cameras in the MY HOME system is defined

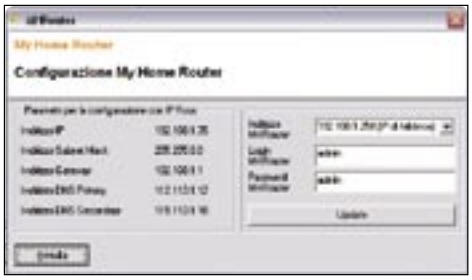
MHROUTER PROGRAMMING

PROGRAMMING THROUGH DEDICATED SOFTWARE

BTicino has developed a dedicated Software for MHROUTER setting. A guided procedure allows to enter into the MHROUTER all data related to the ADSL line used to connect the system. The first time it is performed, the configuration should be sent to the IP default address 10.0.0.2, after updating the PC network connection (for additional information on the addresses to enter, please see the manual supplied with the MHROUTER). Together with the configuration, the MHROUTER IP address will be changed to 192.168.1.1, and the DHCP server will be left enabled. All future updates will be carried out sending the configuration to the address 192.168.1.1 and setting up the PC network connection in the mode "obtain an IP address automatically".

MHROUTER setting SW icon

Screen page to choose the type of IP of the ADSL line



Summarising screen page and configuration sending to the MHROUTER

PROGRAMMING THROUGH BROWSER

Besides connecting to the MHROUTER by means of the dedicated software, the connection can also be established through a browser. After updating the PC network connection (for additional information, please see the manual accompanying the MHROUTER), connect to the address 10.0.0.2 and modify the MHROUTER individual values.
This procedure does not automatically configure the MHROUTER for MY HOME WEB service.

Page summarising the MHROUTER data

F444
PROGRAMMING

PROGRAMMING VIA A DEDICATED SOFTWARE

Bticino has designed a dedicated Software for programming the F444. When the F444-V1.exe program is run, a guided path will enable you to enter the data of the ADSL line used for connecting the system into the F444.
The configuration must be sent to the address 192.168.1.1 (device default address).

BROWSER PROGRAMMING

In addition to the connection via dedicated software, it is also possible to connect to the F444 via the browser. After updating the PC network connection (for more information, refer to the Modem router manual supplied), connect to address 192.168.1.1 and change the values in the F444 individually.

MH300 PROGRAMMING

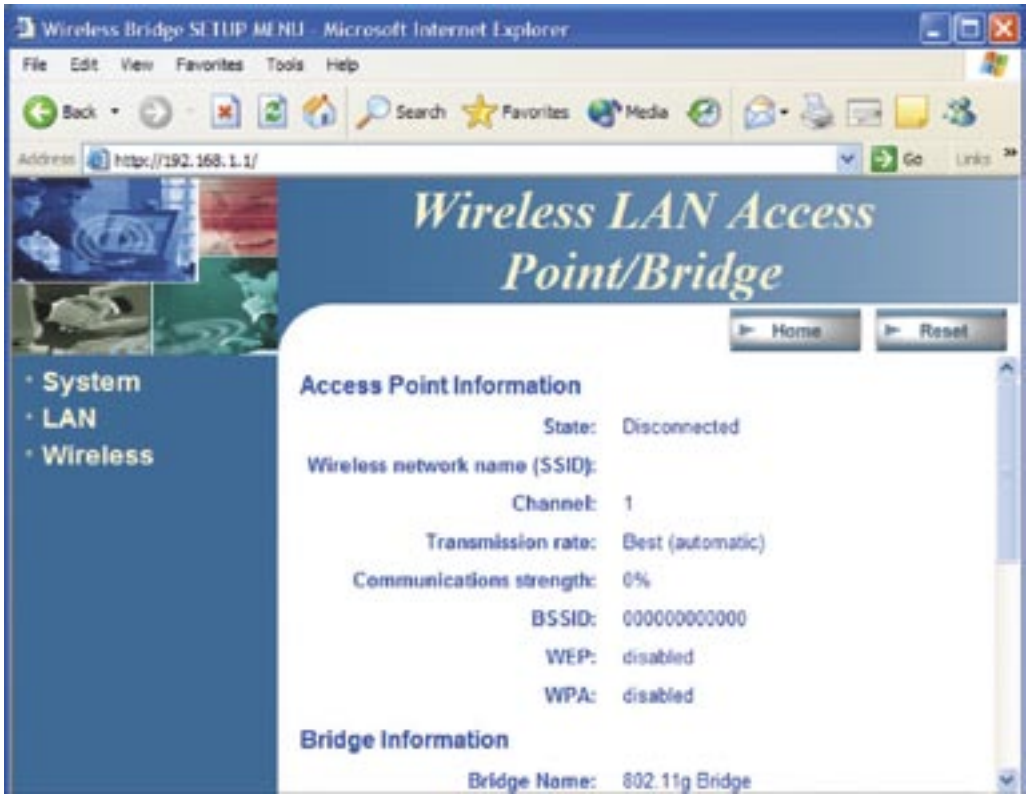
PROGRAMMING VIA A DEDICATED SOFTWARE

Bticino has designed a dedicated Software for programming the MH300. When the MH300.exe program is run, a guided path will enable you to enter the data of the ADSL line used for connecting the system into the MH300. The configuration must be sent to the address 192.168.1.254 (device default address).

MH301 PROGRAMMING

BROWSER PROGRAMMING

The MH301 must be connected using a browser.
From your browser, go to address 192.168.1.1 to access the programming mode. Select Access Point and click on apply.
Restart your browser and go to address 192.168.1.2 to programme the Access Point.



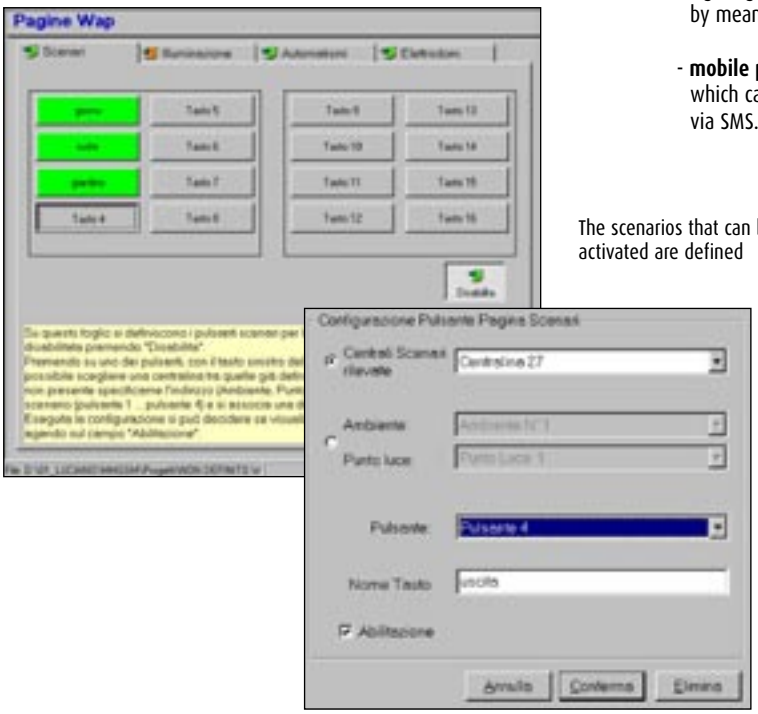
MHGSM PROGRAMMING

The MHGSM is set by means of the TiWEB software supplied with it. The software allows to customise the WAP pages used to control your MY HOME system.
The main parameters that need to be configured are the following:

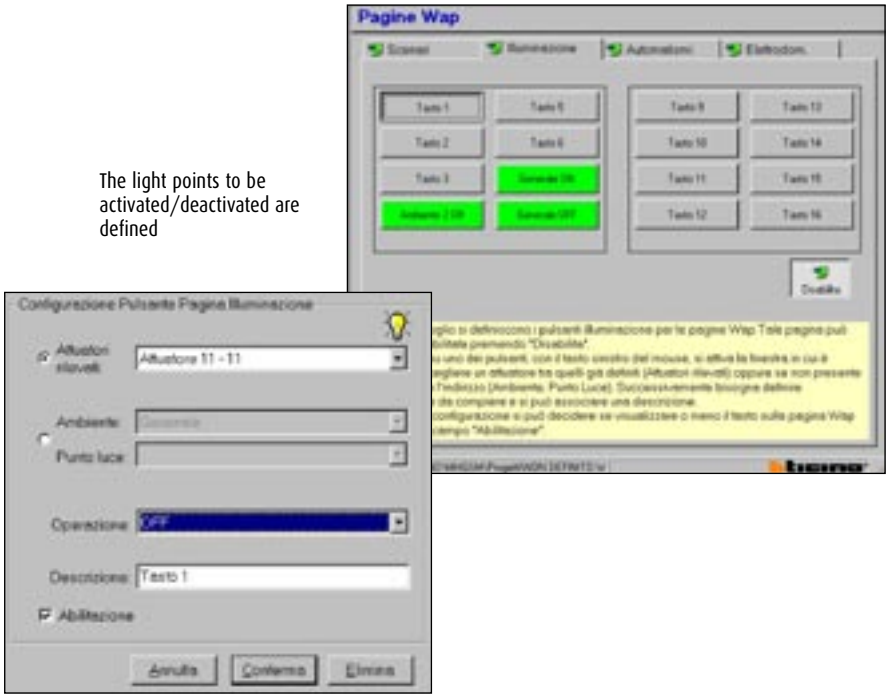
- **login and password:** These are the identification name (login) and the access password for the connection. The ones entered by default by the Manufacturer are "bticino", and can be changed and customised by the user.

- **WAP pages:** To manage and control, through customisable menus, the Lighting, Automation, Scenario and Household appliances control systems, by means of a GSM mobile phone equipped with a WAP protocol.

- **mobile phone numbers:** to which alerts and alarms are to be sent and which can be used as automatic login and password in the management via SMS.



The scenarios that can be activated are defined



The light points to be activated/deactivated are defined

PROGRAMMING - Burglar alarm control unit with dialling device and telephone dialling device

The dialling device field of application concerns 4 areas:

SAFETY			COMMANDS	
			TELEPHONE COMMANDS	
ALARM MANAGEMENT	AUTOMATIONS	ROOM MONITOR		
Calls with pre-recorded message, following a burglar-alarm system message. The calls are divided into 4 channels and up to 4 telephone numbers can be associated to each of them.	Following events (see table), automations are generated by means of OWN codes	Following a detected alarm, by telephoning home one can listen in the room and give messages	4 short telephone numbers which are easy to remember, to which 4 OWN codes are associated, to generate automations	Telephone commands typing the OWN codes

OWN= OPEN WEB NET

Each of the possibilities of operation described above is obtained by suitably setting and programming the device. Each programming is thus divided into two phases:

1 SET THE BASE FUNCTIONS: corresponds to the entering of all the data needed for the dialling device to work properly (e.g. date, time...)
2 PROGRAM THE OPERATIONS: corresponds to the programming of all the actions which one hopes to perform by means of the dialling device (e.g. room monitor, telephone commands).

1ST PHASE

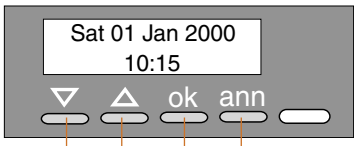
SET THE BASE FUNCTIONS

2ND PHASE

PROGRAMMING THE OPERATIONS

Programming takes place by means of the keypad under the display.

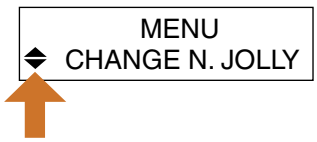
Programming keypad and display



Cancelling the selection or cancelling entered or pre-set data

Confirming the selection displayed or data entering

Can select the various menu operations and move the cursor in the display to modify the data entered



When the ◆ symbol is shown on the second line of the display, this indicates that other options are available in the menu chosen which can be selected with the △ and ▽.
After a few seconds, if no key is pressed, the dialling device returns to the display date and time mode.

For detailed information on programming procedures, please see the instruction manual supplied with the telephone dialling device.

The dialling device has a series of MENUS, which can be displayed on the monitor and selected by means of a programming keypad, and where data can be selected or entered.

NOTE: The procedure described above is specific for the programming of telephone dialling device item N4075. To set the burglar alarm control unit with integrated telephone dialling device, use the TiSecurity Software supplied with item 3500, 3500N and 3500GSM. For additional information, please see the documentation provided with the control unit.

PROGRAMMING
Telephone actuator

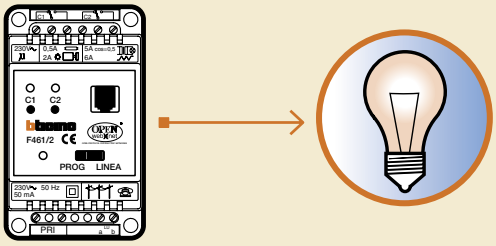
PROGRAMMING

Programming is performed by means of a common touch-tone telephone connected to the RJ8 socket of the actuator, with a special cable supplied.
The actuator can be programmed to work in three different ways:
- lighting: to activate or deactivate lights, boilers or other;
- automation: to operate rolling shutter (open/close) motors or other motors.
- temperature regulation: to activate or deactivate the heating or air conditioning system in combination with BTicino timer thermostat Item L4449/N4449 Living and Light series.

Moreover in the three different modes of operation the two relays can in turn be programmed to work with the monostable function (timed, the relay closes for the programmed time, ideal e.g. for the timed switching on of staircase lights), or bistable function (on-off, at each command the relay changes its state and keeps it until a new command is given, it behaves like a switch).
The actuator can also be connected instead of an extension when there is a BTicino PABX telephone switchboard (to expand the number of relays which can be remotely operated); also up to 4 actuators can be connected in parallel on the same telephone line even if there is an answering machine.
At the end of each programming operation the actuator always sends the telephone handset a tone either of confirmation (programming correct) or of error (programming wrong).

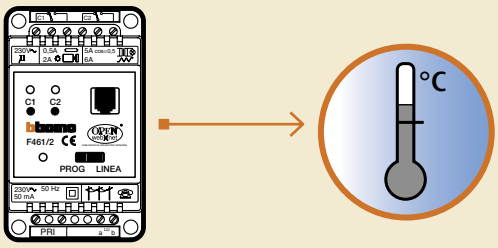
LIGHTING MODE

In this mode the two relays can be activated independently and also be programmed with different functions.
A user can be activated with "impulsive" monostable operation with relay 1 (example 1: timed staircase light switching on) and with bistable "on-off" operation with relay 2 (example: boiler on/off).



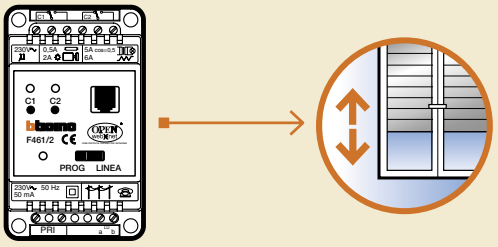
TEMPERATURE REGULATION MODE

This mode can exclusively combine the telephone actuator with the operation of the BTicino timer thermostat Item L4449/N4449 of the LIVING and LIGHT series.
This mode can modify the operation of the timer thermostat at a distance.
If the timer thermostat is in any condition - AUTO, MAN, ANTI-FREEZE, PARTY, HOLIDAY and OFF - on activating the following commands on the actuator:
- ANTIFREEZE, the timer thermostat changes to the anti-freeze condition staying there until the unlock command is given;
- AUTO, the timer thermostat returns to automatic operation.



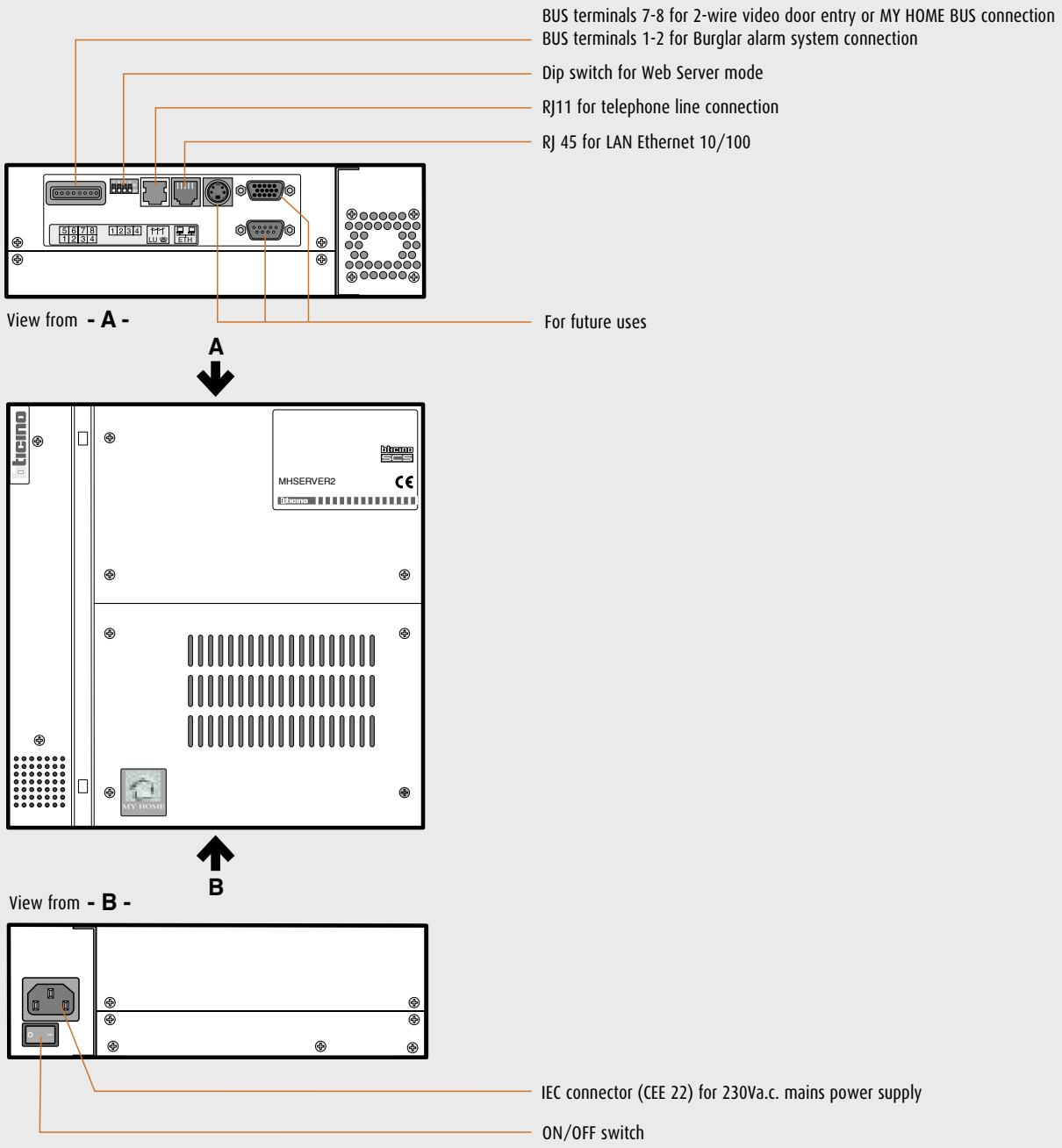
AUTOMATIC OPERATION MODE

In this mode the two relays are both controlled with the same command and cannot be activated independently.
On programming relay 1, the actuator will therefore automatically also manage relay 2.
The automatic operation mode is recommended to control users which are interlocked, such as the operation of a rolling shutter (up/down), motors (forwards/backwards), etc.



GENERAL FEATURES
MHSERVER2

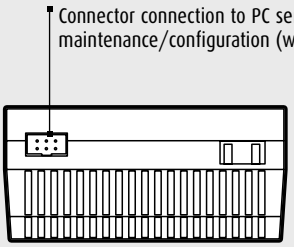
- WEB Server to monitor 2 wire audio/video systems and MY HOME one-family systems by means of WEB pages on LAN/ internet and telephone line.
- Software configuration and updating with TiServer® program
- Surfing via hypertext pages which can be customised, with icon menu and command pushbuttons
- Operation of activations (lights, rolling shutters etc.) with the BTicino Virtual Switch®, SCS Action®, SCS Action Server® and Visual SCS®
- Video door entry answering machine service
- Dimensions : 247 mm (L) - 220 mm (P) - 68 mm (A)
- Power supply: 230V a.c. / 0,9A Max 50mA on 8 wire BUS
- Installation in MULTIBOARD series switchboard item F105P/24D.

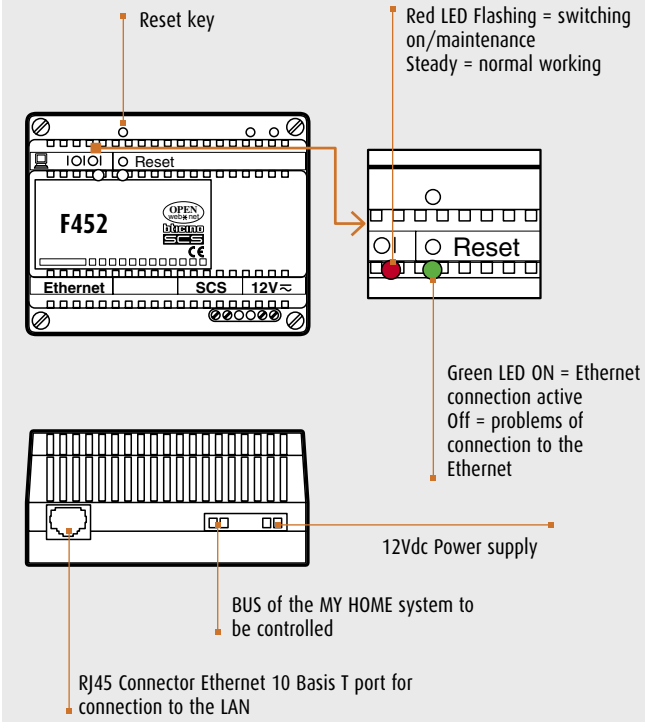


GENERAL FEATURES F452 AND F452V

TECHNICAL FEATURES F452

- WEB server to monitor and control the MY HOME system by means of WEB pages on Internet / LAN and MY HOME WEB portal.
- Software configuration with TiServer program.
- Surfing via hypertext pages which can be customised, with icon menu and command pushbuttons.
- Operation of activations (lights and rolling shutters etc.) with BTicino Virtual Switch® software
- DIN rail 6 modules.
- Power supply 12Vd.c. with power supply item 392100.
- Absorption on terminals SCS (bus): 8 mA
- Absorption on terminals 12 V ~ ⎓
  - 60 mA (at rest)
  - 110 mA (with send and receive commands remotely).
- Max power dissipated: 1.5 W

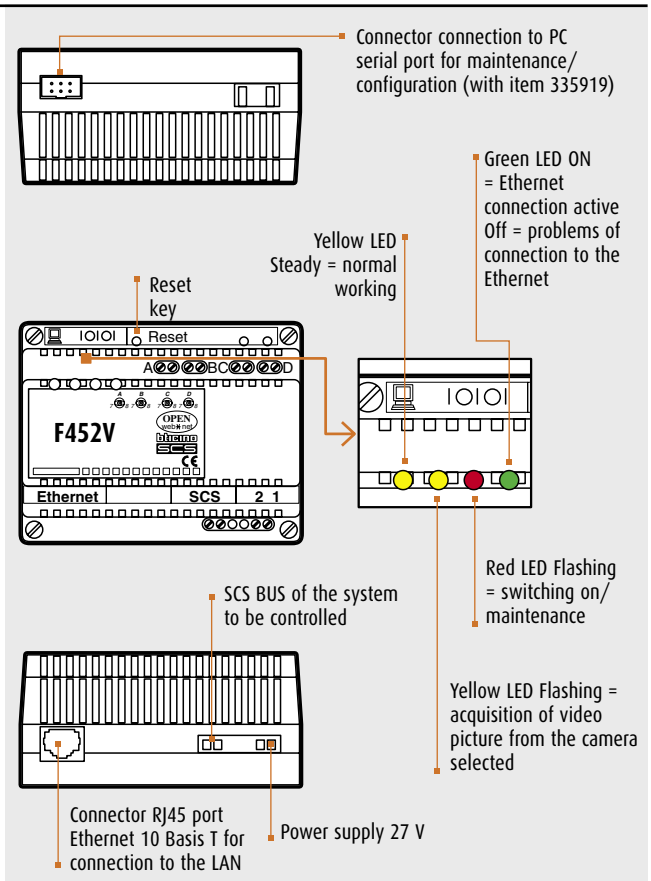




TECHNICAL FEATURES F452V

- WEB server to monitor and control video systems and SCS systems by means of WEB pages on LAN
- Software configuration with TiServer program.
- Surfing via hypertext pages which can be customised, with icon menu and command pushbuttons.
- Operation of activations (lights and rolling shutters etc.) with BTicino Virtual Switch® software
- DIN rail 6 modules.
- 12V power supply with power supply item 346000.
- Absorption on SCS terminals (bus): 8 mA
- Absorption on terminals 1 - 2:
  - 140 mA Typical
  - 210 mA peak when the cameras switch on (after 50 msec drops to 150mA).
- Max power dissipated: 3.7 W

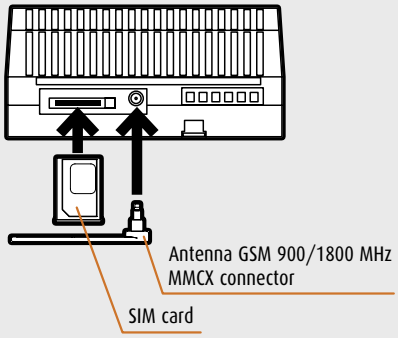
Warning:
The picture displayed on the PC is always in black and white. If colour cameras are used, the picture quality could be slightly less.

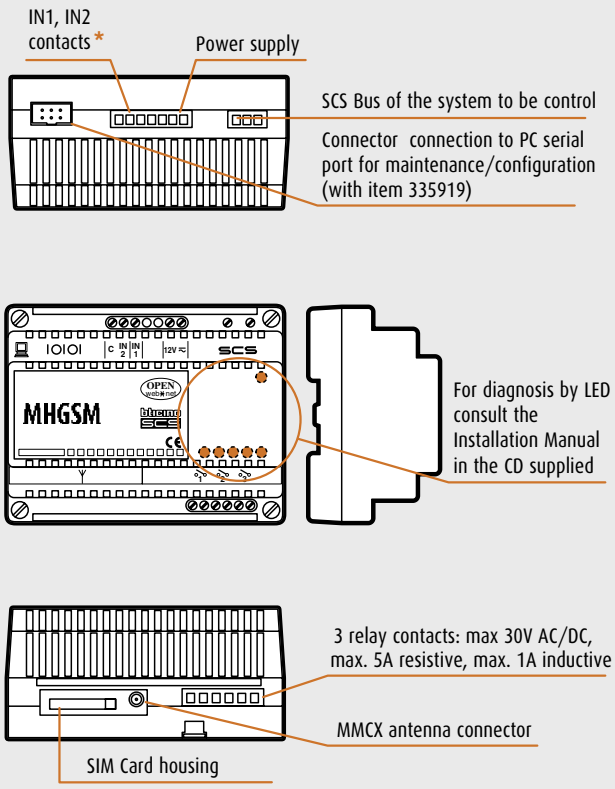


GENERAL FEATURES
MHGSM and Telephone dialling device

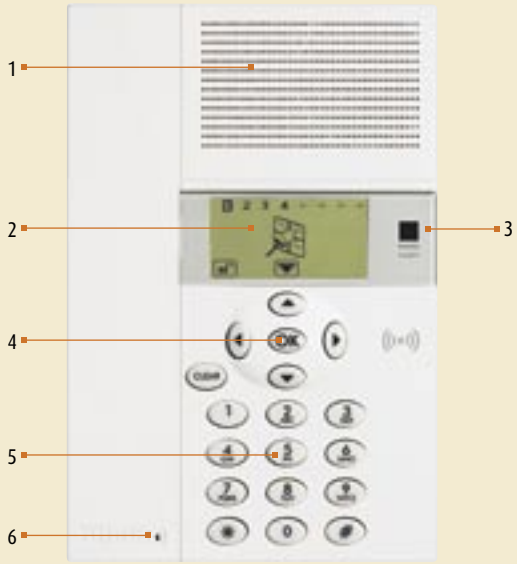
FEATURES MHGSM

- GSM Server to monitor and control MY HOME systems
- Configuration with TiWEB software
- Control and monitoring by means of SMS, WAP and DTMF
- DIN rail 6 modules
- Power supply 12V a.c. with item 392100
- Absorption on terminals SCS (BUS): 8mA
- Absorption on terminals 12V ~:⎓
  - in stand-by = max 45 mA
  - in GSM communication with no relay active = max 90 mA
  - in GSM communication with 3 relays active = max 120 mA
- Maximum power dissipated: 3W





BURGLAR ALARM CONTROL UNIT WITH DIALLING DEVICE AND TELEPHONE DIALLING DEVICE



1 **Loudspeaker:** allows listening to recorded messages and playing voice messages in the room sent to the dialling device by means of telephone line.

2 **Alphanumeric display:** displays the messages which guide the programming operations and the events which have occurred.

3 **IR infrared receiver:** used to receive the IR access code to the dialling device from the system burglar-alarm remote control

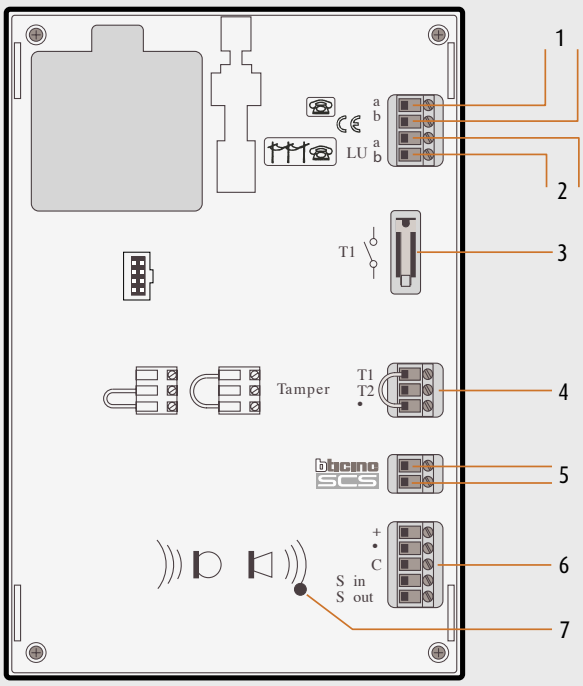
4 **Programming keypad:** can move inside the guided menus and confirm or cancel the operations performed.

5 **Digital keypad manual:** allows manual entry of all those programming operations which require the use of numbers and/or symbols

6 **Microphone:** used to record the messages and to listen to the room remotely by means of telephone.

GENERAL FEATURES - Burglar alarm control unit with dialling device and telephone dialling device

Rear view



1 Telephone line OUT

2 Telephone line IN

3 Local tamper (protects against the removal of the dialling device from the bracket)

4 Tamper line:
(-/T1) protection against cutting wires and local tampering by removing from the bracket

(-/T2) protection against cutting wires without protection against removing from the bracket (installation in BTicino MULTIBOX series boxes)

5 MY HOME system BUS

6 Connection to the sound system

7 Reset pushbutton

NOTE: The dialling device is supplied with the tamper line terminals (-/T1) circuited.

BACK-UP BATTERIES

Before installation the dialling device must be fitted with a back-up battery to be placed in the compartment on the back (fig. 1); its function is to provide power when there is a power cut: the operation of the device and the saving in the memory of the data set. Use the BTicino battery Item 3507/6, 6V – 0.5 Ah, already fitted with cord and connector for the connection (fig. 2).

NOTE: battery Item 3507/6 is supplied separately.

Technical data

Power supply:	from bus: from 18V to 28V
Connection to the mains:	Two wire with telephone pair
Absorption:	20 mA
Operating temperature:	5 to 40 °C
Dialling system:	only with dialling in DTMF
Telephone network:	DTMF/IMPULSES
Number of messages:	6 (4 pre-recorded which can be personalised nd 2 which can be totally personalised)
Degree of protection:	IP 30
Number of telephones which can be saved:	Joker number + 16
Number of telephone commands:	4 with the simplified commands

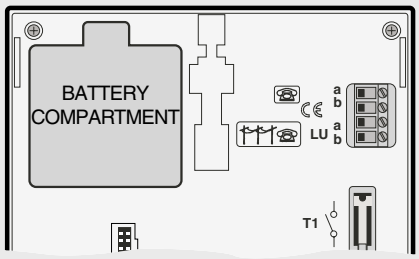


Fig. 1

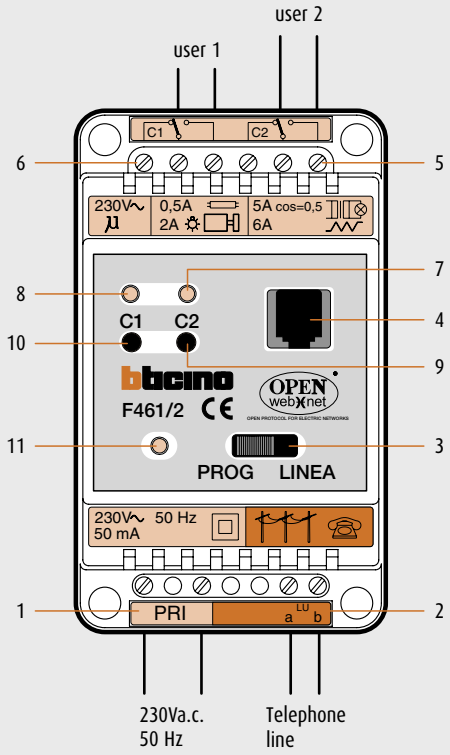
Fig. 2

GENERAL FEATURES
Telephone actuators

Mains power supply: 230 V a.c. ± 10%
Mains frequency: 50 Hz
Power required: 11 VA
Absorption: 50 mA
Operating temperature: 0 to 35°C
Telephone network: analogue (PSTN)
Size: 3 DIN modules (53 x 90 x 65 mm)
Weight: 270 grams

Connection to the telephone network: two wire with telephone pair
Connection to the PABX: two wire with telephone pair
Dialling system: only with touch-tone dialling (DTMF)
Number of relays available: 2 relays with independent control with contacts in exchange
Relay contacts: output 230V a.c. 6A resistive, 2A inductive both between N-NC and N-NO

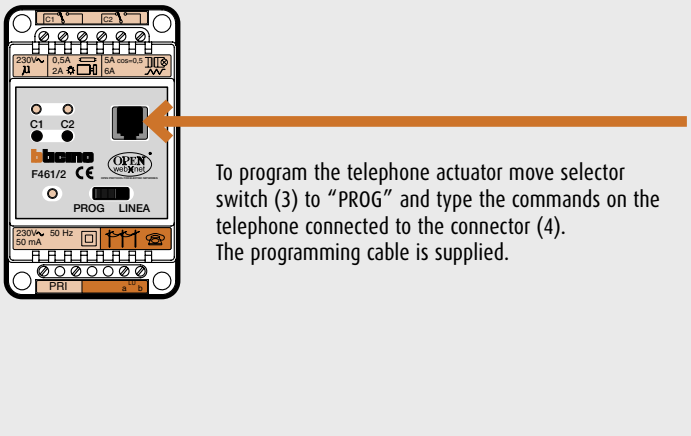
General view



Description of the actuator

1) Screw terminals (PRI) 230V a.c. power supply
2) Screw terminals (LL) telephone line input
3) PROG/LINE selector switch on position:
   - PROG operation in programming mode
   - LINE operation in normal mode
4) RJ8 female connector to connect the actuator to the telephone, using the cable supplied, and activate the programming procedure
5) Screw terminals (C2) output contacts in exchange of relay 2
6) Screw terminals (C2) output contacts in exchange of relay 1
7) Yellow LED which signals the relay state (C2) (LED on relay activated)
8) Yellow LED which signals the relay state (C1) (LED on relay activated)
9) Pushbutton (C2) for local activation of relay 2
10) Pushbutton (C2) for local activation of relay 1
11) Green LED which signals the operating mode:
   - Off = actuator faulty or not correctly supplied
   - On steadily = supplied and working correctly
   - On flashing = supply and working in programming mode

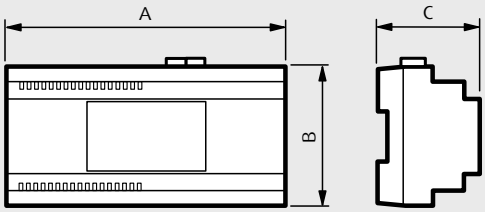
Programming



To program the telephone actuator move selector switch (3) to "PROG" and type the commands on the telephone connected to the connector (4).
The programming cable is supplied.

DIMENSIONAL DATA

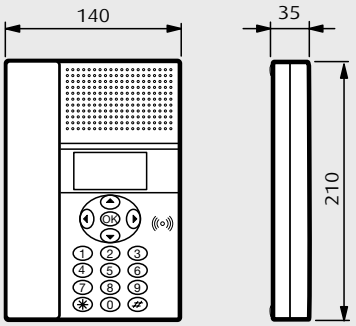
DEVICES ON DIN RAIL



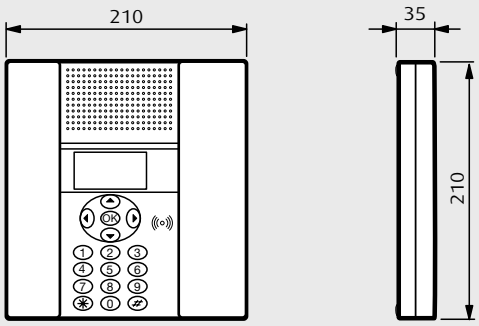
Item	Dimensions (mm)			No. of DIN modules
A	**B**	**C**		
F461/2	52,5	90	60	3
F452	105	90	60	6
F452V	105	90	60	6

Item	Dimensions (mm)			No. of DIN modules
	A	**B**	**C**	
MHGSM	105	90	60	6
F444	105	90	30	6
C9455	105	90	30	6

BURGLAR ALARM CONTROL UNIT WITH DIALLING DEVICE AND TEL. DIALLING DEVICE

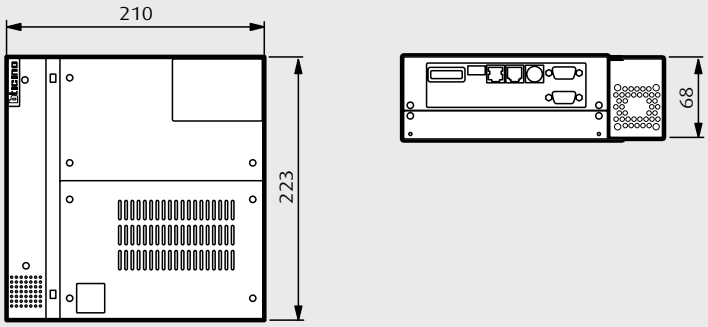


N4075/3500/3500N



3500GSM

MHSERVER2



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