





MH08CT/GB



## **BTicino answers**

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## 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 home automation functions and applications concerning comfort, safety, energy saving, communication and control and is available in AXOLUTE, LIVING, LIGHT, LIGHT TECH and MÀTIX series. 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.



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. MY HOME 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 CONTROL TECHNICAL GUIDE



## MY HOME Totally free to choose the control

MY HOME brings you the maximum choice in selecting the control, thus enabling you to manage your own home

automation system; from simple controls to controls for rooms, scenarios and local and remote monitoring.



#### SCENARIO CONTROL

The scenarios, complete with all the MY HOME functions, are saved in the scenario module and can be called by various devices depending on the user's requirements.



#### LOCAL AND REMOTE 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, VIDEO DISPLAY, VIDEO TOUCH SCREEN and PC with Internet.



VIDEO DISPLAY



VIDEO STATION



VIDEO TOUCH SCREEN with MHVISUAL program



WEB page to control with Internet

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## MY HOME The home as you want it

The MY HOME system, also available in MÀTIX and AXOLUTE series, can cover all the home automation solutions associated with comfort, security, saving, communication and control.

Advanced AXOLUTE 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 MY HOME systems achieved so far with the LIVING, LIGHT and LIGHT TECH series.



LIVING TOUCH SCREEN







## The available functions



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

SAFETY





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

#### **COMFORT - AUTOMATION**



## 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 program.



#### SWITCHBOARD

MY HOME

#### **SAVING - TEMPERATURE CONTROL**



FLATWALL Solution for the centralisation of home automation devices.



#### **TEMPERATURE SENSOR** 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.

#### "POLYX VIDEO DISPLAY" SPEAKER PHONE HANDSET

In each device you will find all the communication you need with all the audio/video door entry and home automation functions.



#### **REMOTE CONTROL**



HIGH HERE

#### WEB SERVER

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



**LOCAL CONTROL** 

TOUCH SCREEN Just one room command for several MY HOME functions.

## GENERAL FEATURES 11

MY HOME CONTROL TECHNICAL GUIDE



## Introduction to the Control

The BTicino MY HOME CONTROL system can monitor and control your home or office in total safety and privacy. The control can take place locally using various ways of interacting from the simple command on the TOUCH SCREEN or remotely by means of PC, hand-held computer, telephone or mobile phone.



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

## The system can command and control the MY HOME system, using the controls installed inside the home. A single movement commands several devices inside the home (blinds, rolling shutters, lights....). ON

### LOCAL CONTROL

The system can also be monitored and commanded using a PC with MHVISUAL software. With 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, change the temperature and check any alarms which have been given (from a different place from where the MY HOME system is installed).

## REMOTE CONTROL

The system can control and monitor the system remotely (not from the place where the MY HOME system is installed) by internet 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 and monitoring of the burglar-alarm system (sending SMS or e-mail with attachment).







## Introduction to the Local Control

The MY HOME system can be commanded and controlled by various interfaces, from the simplest such as the basic control to the most advanced like the TOUCH SCREEN.



SPECIAL CONTROL Electronic control which

can call scenarios, manage the MY HOME commands and activate/deactivate the scenarios saved in MH200.



**SOFT-TOUCH** Electronic touch control. Just touch the SOFT TOUCH surface to switch the brightness ON or OFF or adjust it.



Colour TOUCH SCREEN to monitor and and control the MY HOME functions. It can manage up to 8 systems (lighting, automation, temperature control, burglar-alarm, energy management, scenarios, sound system, mono and multi-channel, open gate and switch ON staircase lights). Can be wall or table installed with base item 349319.



**SCENARY TOUCH** Four-key control to call the scenarios saved in the scenario module.





#### HANDSETS

video handsets with menus with text or icons. Can have all the video door entry functions, the "door state" and "professional studio" functions and control and monitor the MY HOME system.



Monitoring and control software for MY HOME systems. From any PC you can interact with the MY HOME systems. The icons, background and layout can be completely personalised.

Table base

**VIDEO TOUCH SCREEN** 

with MHVISUAL software



AXOLUTE VIDEO DISPLAY

with text or icons

AXOLUTE VIDEO DISPLAY can also be table installed with base item 349319

Video door system audio handsets with menus

Colour TOUCH SCREEN



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INGRESSO



## Introduction to the Remote Control

The remote connection can take:

- by means of POINT-POINT connection (the control system must be connected with ADSL line with fixed IP).

#### **POINT-POINT CONNECTION:**

Direct connection to the devices by means of ADSL line. 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.





MY HOME CONTROL TECHNICAL GUIDE



## LOCAL CONTROL

### THE NEWS



F420 Scenario module to save scenarios (max 16 scenarios per module)



VIDEO TOUCH SCREEN PC panel to use with MHVISUAL software to monitor and control MY HOME systems



#### MH200

Event programming (max 300 scenarios per module)



### **SECTION CONTENTS**

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## General features

The MY HOME system can be commanded and controlled by various interfaces, from the simplest such as the basic control to the most advanced like the TOUCH SCREEN. Just one command manages simple functions such as switching on a light and advanced functions such as scenarios (which with just one touch let you switch ON lights, raise rolling shutters, switch on the sound system, set the temperature etc...).



#### MONITORING AND CONTROL OF THE TEMPERATURE CONTROL FROM AXOLUTE VIDEO STATION



MONITORING AND CONTROL OF THE BURGLAR-ALARM FROM TOUCH SCREEN





## General features

#### WHAT A SCENARIO IS

A scenario is a set of commands which activate/ deactivate a series of devices of various MY HOME applications at the same time. The out scenario can for example:

- switch OFF all the home lights
- lower all the rolling shutters
- switch OFF the Sound system amplifiers



#### **SCENARIOS**

The scenarios are saved in the scenario module item F420 and are called by special commands, from the SCENARY TOUCH, the TOUCH SCREEN, the audio handsets (VIDEO STATION, VIDEO DISPLAY etc...) and the MHVISUAL Software.



#### **ADVANCED SCENARIOS**

Advanced scenarios let you perform particular actions at a set time or following an event which occurs. The devices which can manage the advanced scenarios are:

- **TOUCH SCREEN**: programming of basic events to create simple advanced scenarios (switching the watering ON at 8 p.m. or switching the garden lights ON when it becomes dark)
- MH200: programming complex events to create advanced scenarios with the management of time conditions and AND or OR logics (close the blinds if it is windy OR if it is dark).

The TOUCH SCREEN or the controls configured with CEN can be used to call the advanced scenarios saved in MH200.



MH200



TOUCH SCREEN



At 8 p.m. the TOUCH SCREEN h. 20.00 switches the watering ON





At 8 p.m. OR when it becomes dark MH200 switches the garden lights ON





MH200



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**MY HOME - CONTROL** 

## **MY HOME** basic control

The basic MY HOME control can activate or call from 1 to 4 functions in the 2-module version and from 2 to 6 in the 3-module version.



H4652/2 L4652/2 AM5832/2



H4652/3 L4652/3 AM5832/3



## Special control

The special control can manage 1 or 2 MY HOME functions.



H4651/2 L4651/2 AM5831/2

#### FUNCTION NUMBER









- **Light control** ON/OFF cyclic ON/OFF bistable (also dimmer) General, room, group commands

Rolling shutter controls
 UP/DOWN in normal mode
 UP/DOWN in safe mode

Timed controls





- **Call scenarios saved** in the F420 scenario module

General, room, group commands

- **Control and command** of the Sound System **functions**
- **Control and command of** the Video door entry **functions**
- Activation of saved scenarios in the MH200 scenario programmer (CEN configurator)





## Knob control

The control knob can control and set the lights and the Sound system. The lights or Sound system amplifiers are switched ON by pressing the central key, while they are adjusted by turning the knob.







activation deactivation key



- Light control ON/OFF lights and control brightness



#### - Sound system

ON/OFF amplifier, change track and adjust volume



swivel adjustment ring nut

## **Control: SOFT TOUCH**

Just touch the Soft Touch control to switch the brightness ON or OFF and adjust it or adjust the sound system.



HC4653/2



The signalling LEDs make the device easy to find even in the dark. In fact they vary their intensity if the device is touched and depending on their charge. Also available in dark finish HS4653/2 and HS4653/3.





HC4653/3

- Light control ON/OFF lights and control brightness
- Scenario activation programmed in scenario module F420
- Sound system ON/OFF amplifier, change track and adjust volume



- Activation saved scenarios in scenario programmer MH200 (CEN configurator)

## Control: SCENARY TOUCH

4-key control to use to call 4 of the 16 scenarios programmed in scenario module F420.

Also available in LIVING (L4680), LIGHT (N4680) and LIGHT TECH (NT4680) finish.



HC4680



HS4680



Scenario 3 Scenario 4 (M+2) (M+3)

## TOUCH SCREEN

3.5" colour TOUCH SCREEN display to monitor and control all the MY HOME functions.

Simplified and intuitive interface with graphic icons.



- Scenario activation saved in F420

- Activation saved scenarios





L4684



H4684



## Handsets

The audio handsets can receive calls from the entrance panel and control and command the MY HOME applications. The POLYX series (POLYX VIDEO DISPLAY and POLYX MEMORY STATION) terminals can interact with the MY HOME applications by means of a text menu, while the AXOLUTE (AXOLUTE VIDEO DISPLAY and AXOLUTE VIDEO STATION) terminals interact via an icon menu. The AXOLUTE VIDEO DISPLAY audio handsets can also be table installed with base item 349319.





344162





344172

### The icons



Video door entry system



Scenarios





Sound system



Temperature control

Other

The POLYX MEMORY STATION can also have the audio/video memory of calls from the entrance panel and the video door entry answering machine, so that a message can be left which will be heard by people calling at the entrance panel.



Pushbuttons to manage the memory and the video door entry answering machine.

## MHVISUAL and VIDEO TOUCH SCREEN

The VIDEO TOUCH SCREEN together with the MHVISUAL software allows complete and total control of the home. The icons and background of the various pages can be customised with pictures, dwg files or photographs.





H4687





## F420 scenario modules

Can save up to 16 basic scenarios inside it. The scenarios can be called from TOUCH SCREEN, SCENARY TOUCH or by the MY HOME controls.



## MH200 scenario programmer

Scenario programmer (max 300) to save scheduled advanced scenarios. Can activate/ deactivate the scenarios following an external event, pressing a control configured with CEN or when an actuator changes state. Manages the AND and OR logic functions.



MH200







## Catalogue



H4652/2





H4651/2



HC4563

N4680



HS4563





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# CONTROLS FOR SINGLE AND DOUBLE LOADS Item Description H4652/2 control which can drive a single actuator for single or double loads or two actuators for single loads or independent double loads - to be completed with 1 2-module key cover for controls with one or two functions or 2 1-module key covers with one or two functions - AXOLUTE

	be completed with 12 module key cover for controls with one of
	two functions or 2 1-module key covers with one or two functions
	- AXOLUTE
L4652/2	as above - LIVING, LIGHT, LIGHT TECH
AM5832/2	as above - MÀTIX
H4652/3	control which can drive three actuators for single or independent
	double loads – to be completed with 3 1-module key covers for
	controls with one or two functions - AXOLUTE
L4652/3	as above - LIVING, LIGHT, LIGHT TECH
AM5832/3	as above - MÀTIX
CON	TROLS FOR SPECIAL FUNCTIONS

CON	INOLS FOR SPECIAL FUNCTIONS
Item	Description
H4651/2	control for special functions (timed ON, scenarios) which can control one actuator for single or double loads or 4 scenarios stored in the F420 module - to be completed with 1 or 2 key covers with one or two functions – AXOLUTE
L4651/2	as above - LIVING, LIGHT, LIGHT TECH
AM5831/2	as above - Màtix

KNOB	CONTROL

Item	Description
HC4563	knob control for enhanced adjustment of the dimmer (level from
	1 - 99%, soft-start switching ON, etc.). Central pushbutton for
	switching ON/OFF. AXOLUTE light.
HS4563	device as above - AXOLUTE dark
L4563	device as above - LIVING
N4563	device as above - LIGHT
NT4563	device as above - LIGHT TECH

#### SOFT TOUCH CONTROL

Item	Description
HC4653/2	2 module touch control to actuate/set one actuator or one scenario stored in the item F420 scenario module, adjustable LED intensity - AXOLUTE light finish
HS4653/2	as above - AXOLUTE dark finish
HC46 <b>53/3</b>	3 module touch control to actuate/set one actuator or one scenario stored in the item F420 scenario module, adjustable LED intensity - AXOLUTE light finish
HS4653/3	as above - AXOLUTE dark finish

SCENARIO CONTROL

Item	Description
HC4680	scenario control that can be customised to control 4 independent
	automation, temperature control or sound system "room
	situations" stored in the F420 scenario module - AXOLUTE
HS4680	as above - AXOLUTE dark finish
L4680	as above - serie LIVING
N4680	as above - serie LIGHT
NT4680	as above - serie LIGHT TECH



H4684 L4684



349311



349319



344162



TOU	CH	SCR	EEN

Item	Description
H4684	colour room control to be installed where there are several MY HOME functions. Interface to control scenarios, lighting, automa- tion, burglar-alarm, temperature control and energy management - AXOLUTE
L4684	as above - LIVING, LIGHT and LIGHT TECH
AXC	
Item	Description
349311	AXOLUTE speaker phone video door entry terminal with 2.5" colour display and OSD menu with icons. To be completed with surround plate for 506E of the AXOLUTE series - light finish
349312	as above - dark finish
POL	YX VIDEO DISPLAY
Item	Description
344162	wall-mounted video handset terminal with 3.5" colour monitor and OSD menu. Available in WHITE finish
AXC	DLUTE BASE FOR THE TABLE
Item	Description
349319	base for the table installation of AXOLUTE VIDEO DISPLAY and TOUCH SCREEN. To be completed with rectangular front cover plates for box 506E AXOLUTE (in the case of TOUCH SCREEN L4684 with LIGHT or LIGHT TECH front cover plates)

	AXOL	UTE VIDEO STATION
Item 3493	10	Description AXOLUTE speaker phone video door entry terminal with 5.6" colour monitor and OSD menu with icons. To be completed with dedicated surround plate in plass, wood or aluminium
3492	10	brushed aluminium surround plate
3492	11	KRISTALL glass surround plate
3492	12	TEAK wood surround plate
3492 3492 3492	:11 :12	KRISTALL glass surround plate TEAK wood surround plate



## Catalogue



344172





MHVISUAL

.....

.....

H4687



F452





F453AV





MH200

Item	Description
344172	wall-mounted speaker phone video door entry terminal with 5.6" colour monitor, OSD menu, audio/video memory and video door entry answering machine. Available in WHITE finish
VIDE	O TOUCH SCREEN
Item	Description
H4687	PC panel with 15" TOUCH SCREEN monitor to manage the home via MHVISUAL software
мну	'ISUAL
Item	Description
MHVISUAL	home MONITORING AND CONTROL SOFTWARE. Can customise the icons and backgrounds
	5
AUD	IO/VIDEO WEB SERVER
Item	Description
F453AV	AUDIO/VIDEO WEB SERVER to use the TOUCH SCREEN with MHVI- SUAL in local control applications
346000	power supply for F453AV
F452	WEB SERVER to monitor and control SCS systems commands

POLYX MEMORY STATION

power supply for F452

392100

SCE	NARIO MODULE
Item	Description
F420	device to save 16 scenarios for the automation, sound system, temperature control and video door entry applications - 2 DIN modules
SCE	
	Description

Item in IMQ certification phase
# GENERAL RULES FOR INSTALLATION

To make a MY HOME system with local control the "GENERAL RULES OF INSTALLATION" of the individual systems present must be respected. The specific controls for local control should be installed bearing in mind some rules which make the use of MY HOME and the system functions easier.

# GENERAL CONTROLS

The LIGHTS and ROLLING SHUTTERS general control should be installed near the main entrance of the home so that the lights can be switched ON or OFF or the rolling shutters raised and lowered from a single point before going out or coming back.

### **ROOM CONTROLS**

The room controls can control a set of actuators. They should be installed near the entrance of the room to be controlled.



# GENERAL RULES FOR INSTALLATION

# SCENARY TOUCH

ticino

The SCENARY TOUCH should be installed near the main entrance of the home and in the points where the whole house must be controlled. Installing it in the bedroom, for example, lets you lower all the rolling shutters and switch OFF all the lights in the home before going to bed.



The installation of the TOUCH SCREEN must be central, so that it is visible and can be reached from a room in the home.

The TOUCH SCREEN lets you control and manage all the MY HOME applications installed in the home.





## VIDEO TOUCH SCREEN AND MHVISUAL

The installation of the VIDEO TOUCH SCREEN should be central and, in industrial and service applications, in the reception. The MHVISUAL software can be used to customise the pages and functions which can be controlled.

## VIDEO DOOR ENTRY TERMINALS

The video door entry terminals should be installed in zones of the home which can be reached easily both during the day and at night. They have double use because they can receive the call from the entrance panel and control and command all the MY HOME applications in the home.



VIDEO TOUCH SCREEN with MHVISUAL software

VIDEO STATION



# GENERAL RULES FOR INSTALLATION

# BOX INSTALLATION SET-UP

The components must be installed at the following heights from the ground.





# **GENERAL RULES** FOR INSTALLATION

# LAYING THE CORRUGATED PIPE

ticino

In the individual home, flush-mounted installations require the use of corrugated pipes of different colours, so that work is easier in the installation phase and to allow colour-system identification. The corrugated pipes must have a diameter of at least 25 mm.

Use	Pipe colou	r
Energy, automation, temperature control, energy management	Black	10000
Burglar-alarm and alarms	Brown	Willin
Data network, TV and satellite	White	(
Sound system, video door entry system	Purple/Violet	()))(0)
Telephone system	Green	(man



### CHOICE OF CABLE

The table below helps in selecting the type of wire to use depending on the MY HOME application. It should be remembered that two or more systems

with different wiring can be combined using interface item F422.

# MY HOME APPLICATIONS

	COMFORT		SAFETY SAVING		COMMUNICATION		CONTROL					
	Lighting	Automation	Temperature control	Sound system	Wire burglar-alarm	CCTV	Energy management	Video door entry system	Integrated telephone system	TV/SAT	Data network	Web Server video
BTicino item336904 wich can be burried (white)	(1)	(1)	(1)		• (1)		● (1)		•			-
BTicino item L4669 (grey)						•	•	•	•			-
BTicino item L4669S (red)												
BTicino item L4668CM UTP 5								•			•	
Multipair UTP 5E BTicino item C9881U/SE C9882U/SE												
Telephone pair									•			
RG6 Cable										-		
Wires RECOMMENDED by RTicino (conform to the installation rules)												

#### TYPE OF WIRING

The systems can be made with two different types of structure or mode of distribution:

- free structure
- star-centre structure

The selection is made depending on the installation requirements, functions required, (Installation of the applications; lightning, automation, burglaralarm, CCTV etc.), wall restrictions, refurbishments or new builds. These modes can cover and make all the MY HOME types of system.



Example of wiring with Free structure

Generally the wiring with free structure is used for the traditional distribution of power sockets and is also valid for the MY HOME light automation systems and rolling shutters, temperature control, power management and burglaralarm.

It should also be used when installing AUDIO/VIDEO WEB SERVER item F453AV **not** connected to the video door entry system and/or sound system.



Star-centre wiring is used for data transmission systems, telephone, TC and SAT signals, video door entry and Sound systems.

For video door entry and Sound systems and every time AUDIO/VIDEO WEB SERVER item F453AV is used connected to these systems item F441 or F441M must be used for the star wiring.



# GENERAL RULES FOR INSTALLATION

### THE SWITCHBOARD OR HOME AUTOMATION DISTRIBUTION BOARD

Regardless of the type of wiring used, star or free, fitting the various MY HOME systems into the building involves grouping all the active (power supplies, interfaces, telephone switchboards etc.) or passive devices which are needed to control and manage all the functions in a single central point. This point in fact forms the "brain" of the whole building home automation system and must be sized taking account of the following general rules:

- a) provide extra available space to allow the installation of further devices required by new and different needs.
- b) whenever power supplies are used, these must be installed in the lowest position of the switchboard to help any heat loss.
- c) select the switchboard which can consume a power greater than the sum of the powers consumed by all the devices which must be installed.



#### Example of a technological cabinet made with Tiboard 120-module DIN switchboard.

### HOME AUTOMATION PANEL ACCESSORIES

The accessories for the home automation distribution board allow a rational arrangement in a small space of the devices needed to make a MY HOME system. With these components, among other things, one can position DIN devices on top of each other, or easily fasten devices which are not in DIN modularity, such as MH ROUTER etc., batteries etc.

#### Range of accessories:

- fastening clips item F496/FF

- fastening springs on DIN rail item F496/MF
  - fastening bracket on DIN rail item F496/PF for batteries, modems, routers, etc.
  - shallow section for DIN rail item F496/PR

## MY HOME FLATWALL

As an alternative to the switchboard or home automation distribution board, BTicino proposes MY HOME FLATWALL, an innovative solution for the centralised installation of electronic devices and user interfaces. This product can house up to 288 DIN modules and has parts which are only accessible to the installer (e.g. actuators, power supplies for maintenance/updating) and parts which can be used by the final user (burglar-alarm control unit, flushmounted video handset etc.).

In new buildings MY HOME FLATWALL answers two different installation needs:

- in the home, as an innovative centralised installation solution for all electrical services, fully fitting in with the home's appearance
- in the building riser, as a solution which houses the distribution of the main wiring of the whole building.



Housing the devices in the home

Riser for the distribution of the apartment block electrical services





# WIRING DIAGRAMS

LC DIAGRAM 1 MY HOME SINGLE-FAMILY INTEGRATED SYSTEM





MY HOME CONTROL TECHNICAL GUIDE



# WIRING DIAGRAMS

LC DIAGRAM 1 MY HOME SINGLE-FAMILY INTEGRATED SYSTEM



### LC DIAGRAM 2 CONNECTION MODE F453AV

One or more systems (for more systems a HUB device or switch must be used) can be controlled by means of an Ethernet card configured for access

to one or more installed BTicino web servers (F452, F453AV). In this way the control, safety, load controls and CCTV functions can be managed.



WIRING DIAGRAMS 47

MY HOME CONTROL TECHNICAL GUIDE



# CONFIGURATION

#### ACTUATORS: ADDRESS AND TYPE OF CONTROL

To understand the addressing logical it is useful to define some terms which will occur frequently in this text.

### Room (A)

Set of devices belonging to a logical area (in a home, for example, the living room, the bedroom, etc.).

#### Light Point (PL)

Numeric identification of the single actuators inside the Room.

#### Group (G)

Set of devices also belonging to different rooms but which must be controlled at the same time (e.g. the rolling shutters of the North side of the home, the lighting of the day area, etc.).

#### Actuator address

The address of each actuator is defined uniquely by assigning the numeric configurators 1 to 9 in positions A (Room) and PL (Light Point inside the Room).

A maximum of 9 addresses can be defined for each room; a maximum of 9 rooms can be defined in a system.

The group of belonging is defined by inserting a third numeric configurator in the housing identified with G (Group).

Some actuators have several G positions (G1, G2 and G3) as they can belong to several different groups at the same time.

**Example:** The actuator configured with A = 1, PL = 3 and G = 4 is device 3 of room 1 belonging to group 4.



#### LOGICAL EXTENSION

For special applications such as extended systems in houses or service/ industrial rooms, where the use of many devices may exceed the configuration limits mentioned above (9 addresses for each of the 9 rooms planned), interface item F422 can be used, configured in the "logical expansion" mode. This mode can make an extension system made up of several individual systems, each of which may thus use all the 81 addresses, connected together on a single bus with riser function. A typical use may be the house distributed over several floors: a system can be made for each floor and they can be connected by means of interface item F422.

### CONTROLS: ADDRESSES AND TYPE OF CONTROL

The control devices also have positions A and PL to define the addresses of the devices which receive the control (actuators). For these positions there are numeric configurators with graphics which enable the device to send the control with the various ways listed in the



Control

#### Device address mode

table below.

Control device		Actuator device	
configurator	configurator	configurator	configurator
housing	value	housing	value
A	1 to 9	A	1 to 9
PL	1 to 9	PL	1 to 9
A	AMB	А	1 to 9
PL	1 to 9	PL	1 to 9
A	GR	G1	1 to 9
PL	1 to 9	G2	1 to 9
		G3	1 to 9
А	GEN		
PL	_		
А	AUX		
PL	1 to 9		
	Control device configurator housing A PL A PL A PL A PL A PL A PL	Control deviceconfigurator housingconfigurator valueA1 to 9PL1 to 9AAMBPL1 to 9AGRPL1 to 9AGRPL1 to 9AGRPL1 to 9AGRPL1 to 9AGENPLAAUXPL1 to 9	Control deviceActuator deviceconfiguratorconfiguratorconfiguratorhousingvaluehousingA1 to 9APL1 to 9PLAAMBAPL1 to 9PLAGRG1PL1 to 9G2GRG3GENPL-APL1 to 9LPL1 to 9CPL1 to 9CPL1 to 9CAGENCPL1 to 9CPL1 to 9C

### EXAMPLES OF CONFIGURATION

#### Point-point control

If the No. 3 control is configured with A = 2 and PL = 3, this device sends the control to the actuator identified with A = 2 and PL = 3.

## Group control

If the No. 7 control is configured with A = GR and PL = 1, this device sends the control to the actuator identified with G = 1 (thus belonging to group 1).



MY HOME CONTROL TECHNICAL GUIDE



# **CONFIGURATION**

## ADDRESSING LEVELS

For a better understanding of the concepts described in the previous page, the four addressing modes are described below.

#### **Point-point control**

Direct control to one actuator identified by a "room number" and a "light point number". ntral davica n\* PL = n\*

control device:	A = 11	PL = 11
Actuator:	A = n*	PL = n*

The control devices (senders) can activate the actuators (receivers) with the following modes.

### Example: control for a single load (lamp, fan, rolling shutter, etc.)



#### Room control

Direct control to all the actuators identified by the same room number. Control device: A = AMB PL = n\* Actuator: A = n\* PL = n\*

#### Example: control for all the lamps of a room



**n**<sup>\*</sup> = any numeric configurator from 1 to 9

### ADDRESSING LEVELS

#### Group control

Direct control to all the actuators which perform particular functions even if they belong to different rooms and are identified by the same "group number".

Control device:	A = GR	PL = n*
Actuator:	A = n*	PL = n* G = n*

Example: control of all the lamps of a floor, on the North side of the building





# CONFIGURATION

## MAIN CONTROL OPERATING MODES

The devices in the automation system can perform different functions, such as setting the brightness, switching lamps on/off or opening/closing rolling shutters.

The function performed, i.e. what the device **must do**, is defined by putting

configurators into the housings marked with  $\mathbf{M}$  of the control devices and completing the devices with keys and key covers (if the devices are flush mounted). The table below lists the various operating modes as a function of the configurator and type of key cover used in the device.

Table		
Key covers	Configurator (M) value	Function performed
	۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰	<b>Cyclical ON-OFF control</b> Pressing the device used with relay actuators several times on the key covers sends the ON and OFF control alternately. With dimmer actuators keeping the pushbutton pressed adjusts the load power.
1 function	configurator ON	<b>ON control</b> On pressing the key cover the device sends the ON control.
	configurator OFF	<b>OFF control</b> On pressing the key cover the device sends the OFF control.
	دonfigurator PUL	<b>Monostable ON-OFF control (pushbutton)</b> This mode can perform an ON/OFF control similar to the control of a traditional point-point pushbutton, thus intended just for one address.
	Configurator ↓↓	<b>Bistable control with hold (UP-DOWN for rolling shutters)</b> By pressing the key cover (lower or upper) quickly it sends the UP-DOWN control for a rolling shutter motor. After the control has been given, pressing the lower or upper key cover again stops the rolling shutter in the position required.
2 functions	Contigurator ↓↓M	<b>Monostable control (UP-DOWN for rolling shutters)</b> The device sends an UP-DOWN control for a rolling shutter motor as long as the lower or upper key cover is pressed. When the key cover is released the motors STOPS.
	Configurator O/I	<b>ON/OFF control</b> Used with relay actuators, when the upper key cover is pressed the device sends an ON control; when the lower key cover is pressed the device sends an OFF control. With dimmer actuators pressing the upper and lower key cover adjusts the load power.

### **CEN OPERATING MODE**

This particular mode is used to manage scenario programmer devices item MH200.

As described in the pages of this guide, the device can manage even complex scenarios activated automatically after events in the system or manually by pressing a key of a control device configured with the CEN configurator in the M position. The key (upper or lower) of the control device and the scenario to be activated are linked through the TiMH200 program written to create the scenarios and then saving them in the MH200 device. For example, two independent scenarios can be activated using the control item L4652/2 by pressing the T1 (upper) and T4 (lower) pushbuttons.



### AUXILIARY CONTROLS

Some special functions can be performed using a resource common to all the SCS systems: the auxiliary channels. There are 9 transmission channels on which controls can be sent. Controls can be sent on auxiliary channels from any control device, configuring A = AUX and PL = 1 to 9. The configurator in LP specifies on which auxiliary channel the control must be transmitted,

while the operating mode is specified by configurator M as for all the other controls. The actuators do not recognise these controls directly; the special control which translates the auxiliary into a control which the actuators can perform must therefore be used.

### MAIN ACTUATOR OPERATING MODES

The actuators can be configured for the following operating modes:

#### Table

Configurator (M) va	lue Function performed
configurator 1 to	Special functions This mode can perform special functions (OFF delayed, STOP timed) on the basis of the type of actuator used (single or double) and the numeric configurator inserted.
configurator SL	Slave This mode can perform a control with two or more actuators. In practice the actuators with the SLA (Slave) configurator repeat the function performed by another actuator which acts as Master. The actuators must have the same addresses and must be of the same type (either all light actuators or all rolling shutter actuators).
Configurator	PUL The device does not operate with the Room and General controls.
configurator CE	CEN The device activates the advanced scenarios saved in MH200.



# CONFIGURATION

### **EXAMPLES OF CONFIGURATION**

The drawing shows a system for the management of three lamps and three rolling shutters. Each actuator is identified by three numbers: Room number (A), device progressive number (PL for light actuators and PL1 and PL2 for rolling shutter actuators) and Group (G) of belonging.

The control devices are instead distinguished from the configurators in positions A and PL which specify the addresses of the actuators receiving the control (one only, a group or several room actuators) and from the configurators in position M to define the function (ON/OFF or ON/DOWN).

#### Defining the addresses

#### Point-point control

Control 1 (A = 1, PL = 1) controls actuators 1 (A = 1, PL = 1 and G = 1). In the same way control 2 (A = 1, PL = 2) controls actuator 2 (A = 1, PL = 2 and G = 1) etc..

#### Room control

Room control 8 (A=AMB, PL=2) controls actuators 4 and 5 marked with A=2

#### Group control

Group control 7 marked with A=GR and PL=1, controls actuators 1 and 2 marked with G=1  $\,$ 

#### General control

The devices identified A=GEN and PL= - (no configurator) send a general control to all the actuators, for the lights and for the rolling shutters, in the system.

**NOTE**: The actuators which manage the rolling shutters, unlike those for the lights, are configured in the same way in the two positions PL1 and PL2.

#### Control operating mode

The configurator inserted in position M of each control device identifies the operating mode.

The O/I configurator specifies a lamp switching on control which is given by pressing the upper key cover (ON) and the lower key cover (OFF).

The configurators  $\uparrow \downarrow \downarrow$  and  $\uparrow \downarrow M$  in position M instead specify a control to manage the rolling shutters intended for actuators 4, 5 and 6.



### **DEVICE CONFIGURATION MODE**

The Automation devices can be configured in two modes:

- physical
- virtual

### Physical configuration

This is done by inserting special click-in components called configurators, which differ in number, letter, colour or symbol, into special sockets of each device using pliers, (item 3501/..).

This mode is indicated for systems of small-average complexity. For systems with many devices intended for houses on several floors, hotels and the service sector we recommend using the virtual configuration described in the pages below.



#### **Overview of the configurators**





# CONFIGURATION

#### VIRTUAL CONFIGURATION

In systems with many devices the configuration operations can be simplified considerably using the virtual configuration kit item 3503 and a hand-held computer with Wireless connection as an alternative to the manual configuration. This mode, called "virtual configuration", allows configuring each device without using the usual alphanumeric configurators. The device address and operating mode are established with special software installed in the hand-held computer and sent to the system via wireless by means of the Kit connected to the bus; this mode is thus particularly advantageous in large systems for modifying the configuration at any time without having to act manually on each device.

The virtual configuration is applicable to all types of Automation system, either individual or combined together in "logical extension" mode.

For more information, consult the documentation supplied with the item 3503 kit.







# Control for single load item H/L4651/2 and item AM5831/2

This device can be configured to perform **typical** functions (ON, OFF, timed ON) and **special** functions (otherwise possible in traditional systems with many devices and complex wiring).



Configurator	Time (minutes)
1	1
2	2
3	3
4	4
5	5
6	15
7	30 seconds
8	0.5 seconds

Configurator		Time	
Μ	SPE		
1	7	2 seconds	
2	7	10 minutes	

3) As a function of the receiver actuator operating mode

# **CONFIGURATION** Control for single load item H/L4651/2 and item AM5831/2

ADVANCED OPERATING MODES

In combination with the configurator in position M, by configuring positions SPE and AUX the device can be enabled to perform special functions.

Operating functions possible with configurator in position SPE



position **M** position **SPE** 

	I II		
	Configurator	Combination key cover	
	in position SPE	used and configurator in <b>N</b>	1
trol is addressed	1	1	-
ontrol is addressed	1	2	-
ey	1	—	3

Possible function

Locks the state of the devices to which the control is addressed	1		1	-
Unlocks the state of the devices to which the control is addressed	1		2	-
Locks with lower key and unlocks with upper key	1		-	3
ON with flash <sup>1)</sup>	2		none to 9	-
Selection fixed adjustment level at 10 to 90% of the dimmer <sup>2)</sup>	3		1 to 9	-
Repeating of key 1 to 9 of the scenario unit	4		1 to 9	-
whose address is specified in A and PL				
1) The flashing time is indicated in the table:		2) The function is active if	the device address corres	ponds to th

1) The flash ٦q

Configurator	Time (seconds)
none	0.5
1	1
2	1.5
3	2
4	2.5
5	3
6	3.5
7	4
8	4.5
9	5

ne address of a dimmer actuator.

The configurator in M defines the adjustment in % of the load power.

Configurator	%P on the load
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90

Activating the device only puts the load at the value selected in ON. To turn OFF use a second control with configurator OFF in M.

#### Other operating functions possible with configurator in position SPE A PL M SPE AUX JAAAAAA position **M** position **SPE** Possible function Configurator Combination key cover in position SPE used and configurator in ${\bf M}$ T2 T1 T4 Scenario module control (see configuration item F420) **SCENARIO** 6 T1 Μ T4 4 2 3 1 2 5 6 7 8 9 10 11 12 3 4 13 14 15 16 Sound system function 8 = 1 to 9 address of the room of the amplifier to be controlled Α PL/PF = 0 to 9 address of the amplifier to be controlled SPE = 8 Sound system mode Μ = 0 (follow me mode)\* ٥ſ A = AMB room configuration PL/PF = 1 to 9 configuration of the room to be controlled (in this case all the amplifiers of the same room are controlled) SPÉ = 8 Sound system mode = 1 (activation source S = 1)\* Μ ١0 A = GEN this command activates all the amplifiers in the home PL/PF = = 8 Sound system mode SPE = 4 (activation source S = 4)\* Μ Door entry and video door entry system functions see Communication Technical Guide 9 NOTE (\*): = 1 to 4 indicates the source to activate before switching the amplifier ON. If M = 0 source 1 is switched ON without switching the sources OFF (follow-me mode). Μ Example: - if A = 1, PL1/PF1 and M1 = 3 the radio control will manage the amplifier with address A = 1 and PF = 1 and will activate source 3. Operating functions possible with configurators in position AUX The configurator in AUX indicates the auxiliary channel number which activates the control. A PL M SPE VVVVVVV UUUUU AUX position AUX

On receiving a message sent on the AUX channel indicated, the device sends the control for which it is configured as if its control pushbutton had been pressed. No. of auxiliary channel which enable the control used and configurator in AUX

1 to 9

CONFIGURATION 59

1 to 9



# CONFIGURATION Control item H/L4652/2 and item AM5832/2

# OPERATING MODE

Made up of two independent controls, on the back the device has two distinct positions **M1** and **M2**.

If the device is to be used for just one control, configure only the positions for control 1 (positions A1, PL1 and M1). If instead two separate controls are to be generated, configure the positions of control 1 and control 2 independently.





Table		
Possible function	Combination of key covers used/Config	gurator in M1 and M2
	control 1   control 2	control 1   control 2
ON control	ON	-
OFF control	OFF	—
Timed ON control <sup>2)</sup>	1 to 8	—
Dimmer - ON control (upper key)	—	0/I
OFF (lower key) + adjustment <sup>1)</sup>		
Cyclical ON-OFF control and adjustment <sup>1)</sup>	no configurator	-
Rolling shutter up-down to end of stroke	-	$\uparrow \downarrow$
Monostable rolling shutter up-down	-	↑↓ M
Pushbutton (ON monostable)	PUL	-
Activation of scenarios managed by the programmer MH200 <sup>3)</sup>		CEN
1) If the control is sent to a dimmer actuator		

**2)** For operating times and description see the table for the device item L4651/2.

3) If the device is used only to manage the scenario programmer MH200, do not configure positions A2, PL2.

# Control item H/L4652/3 and item AM5832/3

Device with three independent controls.

Can drive actuators for single loads with 1 relay or actuators with 2 interlocked relays and send controls for the management of advanced devices if configured with CEN configurator.

## **OPERATING MODE**

On the back the device has three distinct A and PL positions which refer to three keys on the front part.

Going from left to right the three front keys correspond to control 1 (A1, PL1), control 2 (A2, PL2) and control 3 (A3, PL3).

The following table lists all the operating modes with the configurator in position **M**.





Configurator value in position M

### Key covers used/function



no configurator

NOTE: if the control is associated with a dimmer actuator item H/L4678 item H/ L4674 with operating modes cyclical ON-OFF, ON (upper key) and OFF (lower key) the brightness can also be adjusted.

1	ON-OFF	up-down
	cyclic	
4	ON-OFF	up-down
	cyclic	monostable
7	ON-OFF	ON (upper key)
	cyclic	OFF (lower key)

Key covers used/function

Configurator value in position M

Configurator value in position M	Key covers used/function
3	up-down
6	up-down monostable
9	ON (upper key)
	OFF (lower key)
CEN	enabling the T1-T2-T3 (upper) and
	T4-T5-T6 (lower) keys to manage
	scenarios of the programmer

MH200.\*

Configurator value in position M	Key covers use	d/function
2	ON-OFF	up-down
	cyclic	
5	ON-OFF	up-down
	cyclic	monostable
8	ON-OFF	ON (upper key)
	cyclic	OFF (lower key)

NOTE (\*): Do not configure positions A2, PL2 and A3, PL3.



# Touch control item HC/HS4653/2 and item HC/HS4653/3

The touch control is included in the catalogue in two versions (AXOLUTE series): one has two modules and the other has three modules. The difference between these two versions is simply mechanical (2 or 3 modules), the configuration procedures and the functioning modes are the same.

If the device is properly configured, it is possible to send controls for the automation, sound system, video door entry and to manage the scenarios stored in the scenario module item F420. The tables below describe the configuration procedures for the automation and the management of the scenarios; as for the functions of the sound system and video door entry system, please refer to the documentation thereof.

	A	room
	PL/PF	light point/voice point (sound system SPE=8)
Ļ PUPF Ž ≬⊟Ø	Μ	mode
2 12 5 8 8	M2	mode 2 (scenario selection SPE=6)
	SPE	special
	INT	LED intensity adjustment



Automation operating mode table		
Possible function	SPE	М
For point-point controls, it executes the cyclical ON/OFF function for short approaching and load power	None	None
adjustment (dimmer actuators) for long approaching. As for the other controls, it executes only ON/OFF		
Timed ON control. The device sets the actuator to OFF after a predetermined time (see table 1)	None	1 to 8
ON control	None	ON
OFF control	None	OFF
Pushbutton (monostable ON)	None	PUL
Cyclic ON/OFF without adjustment	1	7
ON control with flash. The flashing time is specified in the table 2	2	None to 9
Selects the fixed adjustment level of the dimmer (see table 3)	3	1 to 9
Sound system function	8	*
Audio and video door entry functions	None	*
Activation of scenarios managed by the scenario programmer MH200	9	CEN

Table 1	SPE = none	Table 2	SPE=2	Table 3	SPE=3
Μ	Time	М	Time	М	% power on the load
1	1 min	None	0.5 sec	1	10 %
	2 sec (SPE=7)	1	1 sec	2	20 %
2	2 min	2	1.5 sec	3	30 %
	10 min (SPE=7)	3	2 sec	4	40 %
3	3 min	4	2.5 sec	5	50 %
4	4 min	5	3 sec	6	60 %
5	5 min	6	3.5 sec	7	70 %
6	15 min	7	4 sec	8	80 %
7	30 sec	8	4.5 sec	9	90 %
8	0.5 sec	9	5 sec		

#### Operating modes for scenario management

Setting configurator 6 in the SPE socket, the touch Control can call, program and cancel any of the 16 scenarios contained in a Scenario Module item F420. The scenario number can be selected using configurators 1-9 in

Table	2 4		
М	M2	Scenario number	
0	1	1	
0	2	2	
1	6	16	

#### Programming a scenario

- 1) the Scenario Module must be enabled in order to execute the programming process;
- 2) put your hand near the detector zone of the control (the LEDs will switch on at their maximum intensity) and keep it in position. The intensity of the LEDs will decrease to their lowest level after 3 seconds; now move your hand away from the control;
- 3) the LEDs will begin to flash with a very low frequency, hence indicating the activation of the programming mode;
- 4) set the scenario using the controls and/or actuators;
- 5) put your hand briefly near the control to exit the programming mode; the LEDs will stop flashing and will return to their lowest level of intensity.

#### positions M and M2, as in the following table. The address of the Scenario Module to control must be indicated in positions A and PL.

#### A - PL

Address (2 digits) of the Scenario Module to be controlled

#### Cancelling a scenario

- the Scenario Module must be enabled in order to execute the programming process;
- 2) put your hand near the detector zone of the control (the LEDs will switch on at their maximum intensity) and keep it in position. The intensity of the LEDs will decrease to their lowest level after 3 seconds; keep your hand in position for about another 5 seconds;
- the LEDs will start flashing with a high frequency, thus indicating that the scenario has been cancelled; they will then return to their lowest level of intensity.

**NOTE:** To cancel all scenarios of the module, use the reset key directly on the scenario module.

### MODES OF OPERATION FOR SOUND SYSTEM

A PF/PL M SPE or	= =	<ul> <li>1 to 9 room receiving the command</li> <li>0 to 9 address of the amplifier to be controlled</li> <li>0 follow me mode</li> <li>1 to 4address of the first source to activate</li> <li>8 Sound system mode</li> </ul>
A PF/PL M SPE or	= =	<ul> <li>AMB room configuration</li> <li>0 to 9 room to control</li> <li>0 follow me mode</li> <li>1 to 4address of the first source to activate</li> <li>8 Sound system mode</li> </ul>
A PF/PL M SPE	= = =	<ul> <li>GEN this command activates all the amplifiers in the home</li> <li>/</li> <li>0 follow me mode</li> <li>1 to 4address of the first source to activate</li> <li>8 Sound system mode</li> </ul>



# CONFIGURATION Knob control item HC/HS/L/N/NT4563

Fitted with a knob and a central pushbutton this device is suitable for the enhanced management of dimmer actuators and Sound systems (SPE = 1, see Sound system guide).

The central pushbutton switches the dimmers controlled with times (softstart and soft-stop) and switching on level (from 1-99%) which can be set by configuration of the device itself ON and OFF.

The rotary knob instead accurately adjusts the controlled power from the minimum to the maximum value (also for GEN, AMB and GR controls).

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Α	room
PL/PF	light point/voice point
М	mode
LIV1	adjustment level 10 to 90
LIV2	adjustment level 1 to 9
SPE	Automation mode – configurator 0
I	address of the device to be controlled
	(see table 1 for details)

#### Automation Mode SPE = 0 (enhanced dimmer functions)

Can switch a dimmer actuator ON, selecting the level from 1% to 99% and the soft-start and soft-stop speed, according to the table given below; the times given refer to the maximum level. The knob regulates on 99 levels.



Possible function	Configurator in M	Configurator in LIV1 (tens)	Configurator in LIV2 (unit)
ON-OFF cyclic with selection of soft-start	1 to 9	0 to 9	0 to 9
and soft-stop speed (see table 2)			
If LIV1=LIV2=0 the load switches ON			
at the last level saved			
ON-OFF cyclic with switching ON	-	0 to 9	0 to 9
at the level from 1-99%. If LIV1=LIV2=0 the l	oad		
switches ON at the last level saved			
Sound system Mode SPE = 1	ails		
Mode Automation SPF = 2 (Basic dimme	functions)		
Can switch a dimmor ON selecting the low	rel from 1 to 9. If $M = 0$ the load		
switches ON at the last level saved Unlike	the mode with SPE=0 the knob		
regulates on 9 levels.			
Possible function	Configurator in M	Configurator in LIV1 (tens)	Configurator in LIV2 (unit)
ON-OFF cyclic with switching ON	0 to 9	-	-
at the level from 1-9			

1) Address of the device to control:			
Configurator in I	Address		
1 to 9	Systems with logical extension. Address of interface item		
	F422 on whose BUS the dimmer to be driven is found		
0	The dimmer is found in the same system as the knob		
	control		
CEN	Systems with logical extension. The dimmer is found in		
	the riser BUS and the knob control in one of the con-		
	nected systems		

#### 2) Start/stop time:

Configurator in M	Time
configurator in m	
0	detault
1	1 sec.
2	3 sec.
3	5 sec.
4	10 sec.
5	20 sec.
6	40 sec.
7	1 min.
8	2 min.
9	4 min. and 15 sec.

# SPE = 1 SOUND SYSTEM MODE

<ul> <li>1 to 9 room receiving the command</li> <li>0 to 9 address of the amplifier to be controlled</li> <li>0 follow me mode <ul> <li>1 to 4address of the first source to activate</li> <li>1 to 9 volume level when the amplifier is activated (without configurators it activates at the last level set)</li> <li>0 do not configure <ul> <li>0 do not configure</li> <li>1 Sound system mode</li> </ul> </li> </ul></li></ul>
<ul> <li>AMB room configuration</li> <li>0 to 9 room to control</li> <li>0 follow me mode <ol> <li>to 4address of the first source to activate</li> <li>to 9 volume level when the amplifier is activated (without configurators it activates at the last level set)</li> <li>0 do not configure <ol> <li>Sound system mode</li> </ol> </li> </ol></li></ul>
<ul> <li>= GEN this command activates all the amplifiers in the home</li> <li>= /</li> <li>= 0 follow me mode</li> <li>1 to 4address of the first source to activate</li> <li>= 1 to 9 volume level when the amplifier is activated (without</li> </ul>

- I to y volume rever when the amplifier is actin configurators it activates at the last level set)
  0 do not configure
  0 do not configure
  1 Sound system mode
- LIV2
- I SPE



# IR receiver item HC/HS4654, item L/N/NT4654N and item AM5834

The receiver can add the remote control by means of infrared ray controls (item 4482/7 - 4482/16) to the manual control or replace the manual control by the remote control.

Controls intended for 1-relay actuators for single loads and 2-relay actuators for double loads (rolling shutter motor etc.), scenario managements, Sound

**Remote controls** 



7 channels

Correspondence between remote control pushbuttons and loads controlled (mode A)



associated to the remote control pushbuttons On the front the device has, as well as the IR receiving lens, a programming pushbutton and a LED to indicate the programming phase and reception of the IR signal sent by the remote control.

system and Video door entry system (only in self-learning mode) can be



The IR receiver can be set up for 4 different operating modes depending on the configuration of positions A, PL 1 to 4 and M:

Mode	М	Functions which can be performed
A	1 to 4	Repeating of 4 generic controls (ON/OFF, UP/DOWN) with the 4 remote control keys.
Remote		The receiver saves the controls required in the installation phase,
control		by inserting configurators in positions A, PL 1 to 4 and M.
		Changing the pre-set functions involves the reconfiguration of the IR receiver.
В	CEN	Activation of scenarios managed by the scenario programmer item MH200
Advanced scenarios		
C	none	Repeating of generic controls (ON/OFF, UP/DOWN) with the remote control keys.
Remote		In this case the receiver saves the controls with a self-learning procedure.
self-learning		The customer can change the succession and the controls saved to be recalled
-		with the remote control at any time.
D	6	Management with the remote control of a maximum of 16 recorded scenarios in the scenario module item F420.
Scenario module		
control		
E	9	See "Sound system" Technical guide.
Sound system		

Table

### MODE "A" (REMOTE CONTROL) M = 1 TO 4

This mode lets the user associate generic controls (ON/OFF, UP/DOWN) intended for single loads or double loads with the remote control keys. The correspondence between the remote control keys and the loads controlled is determined in the installation phase by the configuration of positions A and PL 1 to PL 4 of the IR receiver, as shown in the table below. The following can be associated with the remote control pushbuttons:

- Point-point controls, i.e. intended for single or double loads (rolling shutter motor) whose address is specified by configurator 1 to 9 in positions PL 1 to PL 4. The various operating modes are determined by the association of the configurators with the PL positions.
- Controls intended for actuators for single and double loads belonging to the room defined with configurator 1 to 9 in position A. In this case the operating modes are defined by the configurators marked by the graphics of the function performed, inserted in positions PL 1 to 4.

definition of channels 1 to 16 of the remote control



addresses/ operating mode

rear view

Function	Type of control	Position <b>A</b>	Position <b>PL1/PF1</b>	Position <b>PL2/PF2</b>	Position <b>PL3/PF3</b>	Position <b>PL4/PF4</b>
cyclical ON-OFF for short press + adjustment (dimmer)	Light point in the room indicated in R	1 to 9	1 to 9	1 to 9	1 to 9	1 to 9
cyclical ON-OFF	Room control <sup>2)</sup>	1 to 9	AMB	AMB	AMB	AMB
Rolling shutter	Light point	1 to 9	1 to 9	1 to 9		
up-down 1)	in the room	-		1 to 9	1 to 9	
	indicated in A	-			1 to 9	1 to 9
		-	1 to 9			1 to 9
		-	1 to 9		1 to 9	
		-		1 to 9		1 to 9
Monostable	Room	1 to 9	<b>≜</b> ↓ M	<b>♦</b> ↓ M		
rolling shutter	control <sup>2)</sup>	-		<b>♦</b> ♦ M	<b>≜</b> ↓ M	
up-down 1)		-			<b>≜</b> ↓ M	<b>≜</b> ↓ M
		-	<b>≜</b> ↓ M			<b>≜</b> ↓ M
		-	<b>≜</b> ↓ M		<b>≜</b> ↓ M	
		-		<b>♦</b> ↓ M		<b>≜</b> ↓ M
Rolling shutter	Room	1 to 9	<b>≜</b> ↓	<b>≜</b> ↓		
up-down	control <sup>2)</sup>	-		<b>≜</b> ↓	<b>≜</b> ↓	
to end of stroke 1)		-			<b>≜</b> ↓	<b>↑</b> ↓
		-	<b>↑</b> ↓			<b>↑</b> ↓
		-	<b>↑</b> ↓		<b>≜</b> ↓	
		-		<b>≜</b> ↓		<b>≜</b> ↓
ON control	Room control <sup>2)</sup>	1 to 9	ON	ON	ON	ON
OFF control	Room control <sup>2)</sup>	1 to 9	OFF	OFF	OFF	OFF

1) The two PL positions must have the same configurator. The UP control is associated with the first PL position and the DOWN control with the second PL position.

#### **Example 1**

Table

If on the receiver positions PL2 and PL3 have configurator 7, the remote control operates double actuator 7 of the room indicated in A, raising the rolling shutters with pushbutton 2 and lowering them with pushbutton 3.

#### Example 2

If on the receiver positions PL2 and PL3 have configurator  $4\frac{1}{2}$  and position A has configurator 2, the remote control operates all the actuators in room 2, raising the rolling shutters with pushbutton 2 and lowering them with pushbutton 3.

2) The control is intended for devices belonging to the room indicated in A.



# IR receiver item HC/HS4654, item L/N/NT4654N and item AM5834

Up to 4 IR receivers can be installed in the room considered. They can manage up to a maximum of 16 separate controls. The correspondence between the channels of a remote control and the respective IR receiver is established by configuring position M of the IR receiver correctly. configurator M 7-channel remote control Configurator in position M CH1 1 rear view CH2 2 CH3 3 CH4 4 CH5 5 CH6 6 CH7 7 16-channel remote control item 4482/7 Configurator Configurator in position M in position M CH1 CH9 1 CH2 CH10 2 CH3 CH11 3 CH4 CH12 4 CH5 CH13 5 CH6 CH14 6 CH7 CH15 7 C CH8 CH16 8 item 4482/16

### MODE "B" (ADVANCED SCENARIOS) M=CEN

This mode uses the IR remote controls item 4482/7 and item 4482/16 as "scenario control" to activate one or more enhanced scenarios saved in the Programmer item MH200.

The IR receiver must be also configured in positions A and PL with the numeric configurators for the definition of the address in the system. The association between one or more remote control pushbuttons (maximum 6) with the scenarios created and saved in the Programmer item MH200 is performed when creating the scenario itself using the TiMH200 application.



Detail of the TiMH200 program to define pushbutton 3 of the remote control for the activation of the Night scenario. Address A=1 and PL=3 of the IR receiver is specified in the field identified with "Object".

### MODE "B" (SELF-LEARNING - REMOTE) M=0

This mode enables you to associate a single control with any key of the remote control. It is possible to associate up to 16 controls with a remote control using only one receiver (using the 16 channel remote control - 4482/16). Configure the receiver with address A=0 and PL=1-9 which cannot be used by actuators.

#### Controls that the receiver can "learn":

- ON/OFF actuator (ON/OFF cyclical functioning for short pressure and adjustment for long pressure)
- Timed ON
- Flashing
- UP-DOWN rolling shutter (up-down until end of stroke)
- Lock/Unlock actuator
- ON/OFF, lights auxiliary (cyclic ON/OFF functioning)
- UP-DOWN rolling shutter auxiliary (up-down until end of stroke)
- Video door entry system (door lock and Staircase lights)
- Sound system (see "Sound system" Technical guide)

# To associate a different control with each of the remote control channels, follow the procedure below:

- 1) press the pin pushbutton for 3 seconds: the LED will turn on steadily;
- within 20 seconds press the key of the channel you want to program on the remote control: the LED will begin to flash, hence indicating the activation of the programming mode;
- 3) set up the control you want to associate with the remote control key using the controls and/or corresponding actuator: the LED will turn on steadily;4) you can now repeat 2) and 3) for all keys, even for a key that has already
- been associated, in case you want to change it;
- 5) press the pin key to exit the programming mode: the LED will turn off.

#### MODE "C" (SCENARIO MODULE CONTROL ITEM F420) M=6

This mode can be used only if the system includes a scenario module item F420. It lets you create, cancel or modify the scenarios contained in the scenario module, thus activating them with the remote control. The procedure lets you store up to 16 scenarios using all 16 channels of the 16-channel remote control. The following table shows the correspondence between the number of the scenario stored in the scenario module and the remote control channels:

Number of	16-channel remote	7-channel remote
scenario module	control 4482/16	control 4482/7
Scenario 1	Ch1	Ch1
Scenario 2	Ch2	Ch2
Scenario 3	Ch3	Ch3
Scenario 4	Ch4	Ch4
Scenario 5	Ch5	Ch5
Scenario 6	Ch6	Ch6
Scenario 7	Ch7	Ch7
Scenario 8	Ch8	
Scenario 9	Ch9	
Scenario 10	Ch10	
Scenario 11	Ch11	
Scenario 12	Ch12	
Scenario 13	Ch13	
Scenario 14	Ch14	
Scenario 15	Ch15	
Scenario 16	Ch16	



# To cancel the programming of one of the remote control channels, follow the procedure below:

- 1) press the pin pushbutton for at least 8 seconds: the LED will turn on steadily after 3 seconds; it will turn off after another 5 seconds; release the key within 4 seconds: the LED will turn on steadily;
- within 20 seconds press the key of the channel you want to cancel on the remote control: The LED will start flashing quickly for about 4 seconds, thus confirming the cancellation;
- from now on, the cancelled key will no longer activate any control until it is re-programmed.

**To cancel the programming of all remote control channels** simultaneously, press the pin pushbutton for about 12 seconds: the LED will turn on steadily after 3 seconds; it will turn off after another 5 seconds; after another 4 seconds, it will start flashing quickly for about 4 seconds, thus confirming the cancellation of all programming conditions.

**NOTE:** with the two-way switch in the "closed padlock" position programming and cancelling the device are forbidden.

The scenario module must be configured with self-learning function enabled (it is necessary to press the self-learning key so that the associated LED is green – if it is red, the function is not enabled) and the two-way switch on the back side of the IR receiver must be in the "padlock open" position.

To program a scenario, follow the procedure below:

- press the pin pushbutton for 3 seconds: the LED will turn on steadily; release the key;
- within 20 seconds press the key of the scenario you want to program on the remote control: the LED will begin to flash, hence indicating the activation of the programming mode;
- 3) set the scenario using the controls and/or actuators;
- 4) press the pin key to exit the programming mode: the LED will turn off;
- 5) repeat 1) and 4) for all the scenarios you want to program.

To cancel a scenario, follow the procedure below:

- press the pin pushbutton for 8 seconds: the LED will turn on steadily after 3 seconds; it will turn off again after another 5 seconds; release the key within 4 seconds: the LED will turn on steadily;
- 2) within 20 seconds press the key of the scenario you want to cancel on the remote control: when the scenario module confirms the cancellation, the LED will start flashing quickly for about 2 seconds and then it will turn off;
   2) reserve to each other second sec
- 3) repeat 1) and 2) for all the scenarios you want to cancel.

**NOTE:** configure the device with address A=0 and PL=1-9 which cannot be used by actuators.



This device is made in a 2 module DIN enclosure and a shallow enclosure for Basic automation. The interface includes two independent control units, identified with positions PL1 and PL2. The two units can send:

- controls to two actuators for two independent loads (ON, OFF or adjustment) identified with the address PL1 and PL2 and mode specified in M or;
- a control to the scenario module item F420;

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 a double control intended for a single load (motor for rolling shutter UP-DOWN, OPEN-CLOSE curtains) identified with the address PL1 and PL2 and mode specified M. The interface has one LED (two for interface item F428) to signal correct operation and three cords (or terminals for interface item F428) to connect to traditional devices such as:

 two traditional NO (normally open) and NC (normally closed) switches or pushbuttons;

- a two-way switch.

Interface item F428 also has a pushbutton to enable the virtual configuration while device item 3477 uses the keys connected to the cords.




#### Single function

If pushbuttons or switches are connected to the contacts, the interface can be assimilated to a control for double loads equipped with two one-module

key covers. In this case the ON, OFF or adjustment function, for two separate loads, can be assigned to each key cover.





Devices for two separate loads (switches, pushbuttons, etc.)

#### Double function

If a two-way switch is connected to the contacts, the interface can be assimilated to a control for double loads equipped with a double-function

two-module key cover. In this case the ON, OFF, rolling shutter UP-DOWN for one load, can be assigned to the key cover.



## CONFIGURATION Two-input interface item F428 and item 3477

#### Operating mode

The various functions performed by the configurator in position **M** are listed in the table below.

If **PL1 = PL2** two connected switches form a double control (two-way switch, etc.).



position M

#### Table

Possible function	Value configurator in <b>M</b>	
	single function	double function
Cyclical ON-OFF for short press	NO	-
and adjustment for long press	configurator	
ON	ON	-
ON timed <sup>1)</sup>	1 to 8	-
OFF	OFF	_
OFF pressing the key connected in PL1 or N2 (item F428)- ON pressing the key		- 0/I
connected in PL2 or N1 (item F428) and adjustment for long press (dimmer) <sup>2)</sup>		
Up-down rolling shutter to end of stroke <sup>3)</sup>	-	<b>≜</b> ↓
Up-down rolling shutter monostable <sup>3)</sup>	-	<b>≜</b> ↓ M
Pushbutton	PUL	-

1) The device sends an OFF control after a time set by the configurators used as indicated in the table below.

Configurator	Time (minutes)	
1	1	
2	2	
3	3	
4	4	
5	5	
6	15	
7	30 seconds	
8	0.5 seconds	

## 2) As a function of the receiver actuator operating mode.

3) In this mode the grey cable corresponds to the up control while the white cable corresponds to the down control.

 $\ensuremath{\text{NOTE:}}$  If circuits are connected to the interface terminals, the operating mode to select is PUL.

If normally open (NO) pushbuttons are connected all the other operating modes indicated in the table are performed.

#### Commands to MH200

On configuring M = CEN SPE = 0 pushing a connected pushbutton sends a command to MH200.

#### PL1 = PL2

Pressing pushbutton 1 sends MH200 a command with address **A – PL1** and number **pushbutton 1**, pressing pushbutton 2 sends MH200 a command with address **A – PL1** and number **pushbutton 2**.

#### $PL1 \neq PL2$

Pressing pushbutton 1 sends MH200 a command with address **A – PL1** and number **pushbutton 1**, pressing pushbutton 2 sends MH200 a command with address **A – PL2** and number **pushbutton 1**.

#### Advanced operating mode

If position **SPE** is correctly configured as well as position **M** the device performs special functions listed in the table below.

#### Operating functions possible with configurator in position SPE



	1 1		
Possible function	Configurator	Value configurator in <b>M</b>	
	in position SPE	single function	double function
Locks the state of the devices to which the control is addressed	1	1	-
Unlocks the state of the devices to which the control is addressed	1	2	-
Unlocks with key connected in PL2 or N1 (item F428)	1	—	3
and locks with key connected in PL1 or N2 (item F428)			
On with flash <sup>1)</sup>	2	none to 9	-
ON (key in PL2 or N1 for item F428) - OFF (key in PL1 or N2	1	—	0/1
for item F428) without adjustment			
cyclical ON/OFF without adjustment	1	7	-
(only NO contact)			
Selection adjustment level fixed at 10 to 90 % of the dimmer <sup>2)</sup>	3	1 to 9	-
Call the scenarios of module F420	4	1 to 4	-
whose address is specified in A and PL <sup>3)</sup>			
Management of scenario module item F420 <sup>5)</sup>	6	(see table in the follo	owing page)
ON timed (2 seconds)	8	1	
ON timed (10 minutes)	8	2	

1) Device to be combined with an OFF control for switching off. The flash time is indicated in the table:

Configurator	Time (seconds) $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
none	0.5
1	1
2	1.5
3	2
4	2.5
5	3
6	3.5
7	4
8	4.5
9	5

2) Device to be combined with the dimmer actuator and an OFF control for switching off. The configurator defines the adjustment in % of the load power.

Configurator	% of load
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90

#### Operating mode with SPE = 7

This mode can perform the controls envisaged by the Basic operating mode with SPE = no configurator when NC (normally closed) pushbuttons or switches are connected to the interface terminals.

#### **3)** Example of configuration:

If you want to call scenario 3 of module item F420 with a traditional connected pushbutton contact PL1 or N1, you must configure SPE=4 and M=3. In positions A and PL1 you must configure the address of the scenario module F420 to be controlled with the traditional pushbutton (for example A=1 and PL1=1 for the unit with address A=1 and PL=1).

If position PL2 is configured as well (e.g. with configurator 2), the interface is enabled to repeat scenario 3 of a second scenario module with address A=1 and PL=2 with a traditional pushbutton connected to contact PL2 or N2. If positions PL1 and PL2 instead have the same configurator, both pushbuttons connected to the interface repeat scenario 3.

Instead two different scenarios of the same module cannot be controlled with one interface.

Whenever only a traditional device is to be connected to the interface, this must be connected only to contact PL1 or N1 and positions A and PL1 must be configured.

4) M=1 to 8: group of scenarios to be controlled with the 4 keys:

Μ	First contact (PL1)	Second contact (PL2)
1	1	2
2	3	4
3	5	6
4	7	8
5	9	10
6	11	12
7	13	14
8	15	16

#### Room (A) and Light point (LP):

A=0 to 9 and PL1=1 to 9 are the room and the light point of the scenario module to be controlled.

PL2 must be the same as PL1, or not configured (in this case the second contact is disabled).

The functioning mode is the same as the control item H/L5651/2, item AM5831/2 and scenario control item HC/HS/L/N/NT4680:

- short contact closing (less than 3 seconds) scenario activation
- long contact closing (from 3 to 8 seconds) programming start
- long contact closing (more than 8 seconds) cancellation
- when programming, the LED flashes slowly
- when cancellation is confirmed, the LED will start flashing quickly for 4 seconds.



This device allows you to manage scenarios for Automation, Sound system and Temperature Control systems which have been created, modified and activated from different control devices such as:

- the special control, item H/L4651/2 and item AM5831/2
- the scenario control, item HC/HS/L/N/NT4680
- the touch control item HC/HS4653/2 and item HC/HS4653/3
- the TOUCH SCREEN, item H/L/N/NT4684

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- the IR receiver with remote control, item HC/HS4654 and item L/N/  $\rm NT4654N$
- the radio receiver, item HC/HS4575 and item L/N/NT4575N with remote control item 3528, item 3527 and with radio controls, item HA/HB/L4572 and item H/L4572PI.
- the radio receiver, item HC/HS/L/N/NT4575SB with radio control, no batteries, item HA/HB/L4572SB.

For different configurations of these devices, please refer to the related pages in this guide.

The combination of a Scenario Module with one of the listed devices can be made by assigning the same address to both items, identified by the configurators having a numeric value 0 to 9 in positions A and 1 to 9 in position PL. If a TOUCH SCREEN is used, the address of the Scenario Module must be specified when programming with the Tidisplay software. Several Scenario Modules can also be installed in a system, thus giving them different addresses.



#### PROGRAMMING THE SCENARIOS

In order to program, change or cancel a scenario, it is necessary to enable the programming mode of the Module item F422 so that the programming state LED is green (use the lock/unlock key on the Scenario Module for at least 0.5 seconds).

Now follow the indications of the control device (special Control, capacitive Control, etc.) used in the Automation system to create the scenario. For example, if the device used is the special Control item L4651/2 or item

AM5831/2, continue with the following operations: 1) Press one of the four keys on the special control to which the scenario is

- to be associated for 3 seconds, the corresponding orange LED lights up and then flashes signalling the learning phase. Wait for the orange LED to flash before continuing.
- 2) Construct the scenario by means of the controls belonging to the various Automation, Temperature control, Sound System, etc. functions.
- 3) Confirm the scenario by pressing the corresponding pushbutton on the special control quickly; the LED changes from flashing orange to green.
- 4) To change or create new scenarios to be linked to the other keys, repeat the procedure starting from point 1.

If the Scenario module does not receive a control within 30 minutes from the beginning of the learning phase, the programming is automatically interrupted.

To call a set scenario just press its pushbutton on the special control quickly. To cancel a scenario completely, keep the corresponding pushbutton pressed for about ten seconds. The orange LED signals the cancellation by flashing quickly. To cancel the entire memory keep the DEL pushbutton on the Scenario module pressed for 10 seconds, the yellow "reset scenarios" LED flashes quickly.

Once the operations have been performed lock the programming, pressing the lock/unlock pushbutton for at least 0.5 seconds, so that the corresponding LED becomes red.



Keys to manage the scenarios in the control item L4651/2

#### NOTES:

Inside the system itself one Scenario module can be programmed at once as the other devices are temporarily locked; during this phase the "programming state" LED becomes orange signalling the temporary Lock. During the learning phase and when there are timed controls or group controls, the Scenario module does not save events for 20 seconds respectively. You must thus wait before continuing with creating the scenario. During the scenario learning phase only the changes of state are saved. The Scenario module should be configured with a different A and PL address from that of an actuator. Use A=0 and PL=1 to 9, which cannot be used by actuators. If the configuration is wrong the programming state LED flashes ORANGE. If the configuration is "virtual" the LED flashes RED.

### CONFIGURATION Scenario control item HC/HS/L/N/NT4680

The Scenario Control is a device that does not directly manage the scenarios by storing them inside of it. It Basically acts as a control to activate, create and change 4 scenarios stored in the Scenario Module item F420 provided that the latter is enabled for being modified with the enable/disable key.

#### CONFIGURATION

Positions A and PL of the scenario control must correspond to those in the scenario module item F420. The association of each key of the control with one of the scenarios stored by the module is made by configuring housing M. It is possible to configure positions N and DEL to set the number of the scenario to be activated with a delay and the period of the delay (from 15s to 15m).

For more information, please see the following tables.

#### Commands to MH200

Configuring M = CEN N = 0 DEL = 0. Pressing a key sends MH200 a command with address A – PL and the same pushbutton number as the key pressed.



Correspondence between the 4 keys of the scenario control and the number of scenarios stored in the scenario module item F420:

Configurator M	Key 1	Key 2	Key 3	Key 4
1	Scenario 1	Scenario 2	Scenario 3	Scenario 4
2	Scenario 5	Scenario 6	Scenario 7	Scenario 8
3	Scenario 9	Scenario 10	Scenario 11	Scenario 12
4	Scenario 13	Scenario 14	Scenario 15	Scenario 16

Depending on the configurators inserted in position N, it is possible to set a delay to be associated with one or all scenarios before being actually actuated.

Configurator N	Key 1	Key 2	Key 3	Key 4
0	None	None	None	None
1	Delay ON	None	None	None
2	None	Delay ON	None	None
3	None	None	Delay ON	None
4	None	None	None	Delay ON
5	Delay ON	Delay ON	Delay ON	Delay ON

The configurator in the DEL position determines the delay on activating the scenario.

DEL configurator	Delay
0	None
1	1 minute
2	2 minutes
3	3 minutes
4	4 minutes
5	5 minutes
6	10 minutes
7	15 minutse
8	15 seconds
9	30 seconds

#### Programming a scenario

- the Scenario Module must be enabled in order to execute the programming process;
- press the key you want to associate the scenario with for 4 seconds. When the LED turns on, release the key. The corresponding LED will begin to flash, hence indicating the activation of the programming mode;
- 3) set the scenario using the controls and/or actuators;
- when the scenario is set, press the pushbutton with the flashing LED again to exit the programming mode;
- 5) repeat par. 2, 3 and 4 for all the other keys, including those that are already programmed if you need to add controls to the associated scenario.

**NOTE:** when you finish programming, it is recommended to disable the possibility to modify the scenarios by acting on the enable/disable key of the scenario module.

### To cancel a scenario

- the Scenario Module must be enabled in order to execute the programming process;
- press the pushbutton of the scenario you want to cancel for at least 8 seconds:

the red LED will turn on after 3 seconds; it will turn off after another 5 seconds; release the key. The corresponding LED will start flashing quickly for about 2 seconds, thus indicating that the scenario has been cancelled. If the LED does not flash, it means that the control has failed.

**NOTE**: To cancel all scenarios of the module, use the reset key directly on the scenario module item F420.



### CONFIGURATION Scenario programmer item MH200

For the Programming the scenarios managed by device item MH200 must use the **TiMH200**. program. This application can construct scenarios (activation of light points, rolling shutters, etc.), dealing with time events or events detected on the system (alarms, pressing pushbuttons, etc.). In this mode the user can, for example, simulate that someone is at home (setting that every day at a certain time the rolling shutters are raised and that at another time the lights are switched on and the rolling shutters lowered).

The scenarios created are grouped in a collection which is saved directly in the design. The collection can save different scenarios and activate only those involved. The design created must be then downloaded to the scenario Programmer. This operation is performed by connecting the device to the PC with a "crossover" cable connected to the Scenario Programmer LAN network connector and to the PC Ethernet network card or by means of cable item 3559. In the same way, the file can be uploaded from the device to check the configuration contained and saved in it. The TiMH200 program can update the version of the MH200 device Basic permanent software by means of new revisions distributed by BTicino (Firmware Update) and, if the scenario is activated by control devices (configurators M=CEN), the association can be made between the control key and the scenario itself.





TIMH200 software Main screen for definition of the scenario

#### Connecting the scenario programmer to the Personal Computer

### CONFIGURATION TOUCH SCREEN item H/L4684

For the configuration the device must be connected to a Personal Computer through the interface cord item 335919 and using the TiDisplay Color IP software.

**TiDisplay color software**: Is used to define the link between the preconfigured icons which will be shown on the display and the functions which must be managed and actuated by the devices of the Automation, Energy management, Sound system, Burglar-alarm and Temperature Control systems. A new configuration can be created or an existing one modified on the basis of the installer's and customer's requirements. The program can also configure extra functions in the TOUCH SCREEN such as scenarios with logical or time conditions, time activations, displaying the time and date, setting a protection password and updating the firmware version. The graphic style of the icons to be matched to the device version, AXOLUTE or LIVING, can also be defined. For more information refer to the documentation supplied with the software.



Front view





### CONFIGURATION Audio/video Web Server item F453AV

#### F453AV

The F453AV audio/video WEB SERVER is configured with the TiF453AV software. The program is downloaded to the device using a LAN connection (with cross-over cable if the PC-F453AV is direct, without using HUB/SWITCH) or via the USB cable item 3559.





### CONFIGURATION Web Server item F452

The (F452) Web Server 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 device.

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); 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 pushbuttons 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.

### MHVISUAL CONFIGURATION

The MHVISUAL software can create a synoptic, i.e. a customised representation of the SCS system installed, to supply a tool which can simulate and then control the system itself.

Using a simple and intuitive interface various objects can be positioned in the project to recreate the reality of the system installed. One can:

- Send a comfort command (lighting, automation and scenarios) even to systems with logic extension
- Manage the cameras
- Display the alarms from the burglar-alarm system: anti-intrusion and auxiliaries
- Manage the load control
- Manage the Temperature Control and Sound systems
- Recall scenarios (MH200, F420)



The MHVISUAL work environment is divided into two parts:

#### Design Area

This is the MHVISUAL area where a project can be created, configured and managed.



This is the MHVISUAL area where you can interact with the components installed in the system, by means of the objects previously entered in the Design area. In this area modifications cannot be made to the appearance or configuration of the project and the entered objects.





## CONFIGURATION SCS-SCS interface item F422

The device can communicate between buses based on SCS technology, even if they are dedicated to different functions. Whatever the mode of use of the interface remember that the two buses connected to it for all purposes form two systems and, as such, are subject to all the dimensioning and installation rules laid down.

#### Address configuration (configurators I1 I2 I3 I4)

ticino

Housings 11, 12, 13 and 14 are used to identify the interface inside the system uniquely.

With actuators and controls this function is performed by the configurators in housings A (room) and PL (light point). In both cases configuring the device means giving it an address which identifies it. The interface address must be different from any other address on the two buses connected to it. Depending on the mode of use the interface may have an address defined with only two configurators, 13 and 14, leaving the housings for 11 and 12 empty, or with all four:

- Only I3 and I4; when the interface is used in the physical expansion, logical expansion, burglar-alarm/automation interface
- 11, 12, 13 and 14; when the interface is used in the public riser mode.

#### Operating mode configuration (MOD configurator)

The following five modes are available:

1 Physical expansion (configurator MOD=1):

can increase the total bus length or exceed the absorption limit of 1200 mA for the individual power supply. As for the installation limitations, please refer to the chapter "General

rules for installation".

2 Logical expansion (configurator MOD=2):

can increase the number of devices of a system, which is 81 (max 9 rooms with 9 light points each).

As for the installation limitations, please refer to the chapter "General rules for installation".

#### 3 Public riser (configurator MOD=3):

can interface the digital door entry or video door entry systems with the other buses of the burglar-alarm or automation systems.

- 4 Burglar-alarm/automation interface (configurator MOD=4): allows the automation and burglar-alarm systems to communicate.
- 5 Galvanic separation (configurator MOD = no configurator required): can interface different functions (ex.: Sound system with Automation).



#### "Logic expansion" operating mode

For this mode configurator 2 must be put in the MOD position. The positions identified with 11 and 12 **must not be** configured, while in positions 13 and 14 the "**interface address**" must instead be configured (13 = 0, 14 = 1-9) connected to the riser.





### CONFIGURATION Interface SCS-SCS item F422

#### Positioning the devices in the system control configuration and logic

In configuring the global Automation system, remember that:

- 1. each system connected to the common riser may use all the 81 addresses provided (9 light points for 9 Rooms) apart from the address of interface item F422 which will be assigned in positions 13 and 14.
- The common riser must be made up of an Automation system in which the Energy management Control unit and the control unit with dialling device item 3500 can be installed as well as the control devices and actuators.
- 3. Interface F422 allows the transit of the controls between the individual systems and the common riser as follows:



**Example:** the Point-Point control and the Room control are only possible between control devices and actuators belonging to each individual system or to the common riser. The interface does not in fact allow the control to transit from an individual system to the riser and vice versa.

#### Control for extended systems item H/L4655

Using this device in a system with logical expansion enables you to send, from a single system connected to the main riser, any type of control (room control, point-point control, etc.) directed to actuators situated in the riser itself or in another system connected with interface item F422. This is made possible by configuring the address of the interface item F422 - used for transferring the information - in the cross control device. For more information, please refer to chapter "Configuration" (control item H/L4655).

#### "Physical expansion" operating mode

For this operating mode configurator 1 must be inserted in the MOD position of the interface.

The positions identified with 11 and 12 **must not be** configured. The "**separation address**" between the two buses connected to the interface must instead be defined in positions 13 and 14. Supposing as in the example that 13=3, 14=2:

- on the input bus (IN) the addresses must go from A=1 / PL=1 to A=3 / PL=1;
- on the output bus (OUT) the addresses must go from A=3 / PL=3 to A=9 /PL=9 or to the address of the next interface.

As can be seen from the example, all the automation bus 1 addresses are lower than that of the interface, while all the automation bus 2 addresses are higher; the interface address thus separates all the addresses of which the complete system may be made up into two or more blocks. To position the devices in the global system, remember the indications of the next page.

The commands can be entered indifferently in any stretch, independent of the configuration.



#### Example: physical expansion made connecting three systems with interfaces item F422



### CONFIGURATION SCS-SCS interface item F422

#### Positioning the devices in the system control configuration and logic

When configuring the devices which will be connected to the global Automation system, remember that:

- 1. all the control devices configured to send Point-point, Room, Group and General controls can be connected on either branch of the system (1 or 2) regardless of their addresses in A and PL positions.
- This is also true in the case of actuators configured in the "slave" operating mode and for actuators item F412 and L/N/NT4672 of the Energy management system.
- 3. As indicated in the figure, the scenario modules item F420, the actuators (including those configured as "master") and the IR receivers item HC/HS4654, L/N/NT4654N and item AM5834 are installed on the stretch of bus 1 or 2 corresponding to their own local address. Example: if the scenario module is configured as A=2, PL=1 it will be put on system 1.
- Interface item F422 allows the transit between the various systems of the Point-Point, Group, Room and General controls. As an example, install a control configured A=1 and PL=5 in system 2 to control actuator A=1 and PL=5 installed in system 1.



**NOTE** (\*): except the actuators in "SLAVE" mode which can be connected both in system No. 1 and in system No. 2.

#### BURGLAR-ALARM/AUTOMATION INTERFACE OR BURGLAR-ALARM/VIDEO DOOR ENTRY SYSTEM -SOUND SYSTEM INTERFACE



#### GALVANIC SEPARATION





### CONFIGURATION Handsets

#### AXOLUTE VIDEO STATION



AXOLUTE VIDEO STATION item 349310

With AXOLUTE VIDEO STATION you can select from 16 types of ring tone with already programmed tunes, which can be freely associated with the following calls:

- Call from entrance panel (configured with S = 0)
- Call from entrance panel (configured with S = 1)
- Floor call
- Intercom call

AXOLUTE VIDEO STATION can be configured with 3 different levels of detail:

#### 1) Advanced configuration\*

allows the greatest degree of customisation by the user who can:

- write the menus in flexible mode
- customise the messages
- access all the MY HOME modes of operation. This configuration is made via PC and dedicated software (included in the product package)

#### 2) Guided configuration\*

clets the user access on the screen the video door entry and control menus of the MY HOME applications with less customisation than the advanced configuration. This configuration is made by means of OSD menu directly from the AXOLUTE VIDEO STATION monitor. The customer can select predefined video door entry/home automation pages where he can enter the commands of the devices of his own home.

#### 3) Quick configuration

lets the user access menus with video door entry functions. It is the classic configuration with configurators to be put in the socket on the back of the device itself.



#### N – number of the entrance panel

Configurator N assigns a recognition number inside the system to each video handset. The audio handsets must be configured progressively. With audio handsets connected in parallel (in apartments without item 346850, max 3) these must be configured with the same configurator N. Audio handsets, video handsets and/or extra bells can be installed in parallel with the basic video handset.

#### P - association of the entrance panel

Configurator P identifies the associated EP, i.e. the first entrance panel to auto-switch ON the first time the key is pressed  $\_\_] \circ$  and which door lock with video handset at rest is activated by pressing the key  $\bigcirc \circ$   $\_\_$ 

#### M – operating modes

Configurator  $\tilde{M}$  identifies the main AXOLUTE VIDEO STATION menu and thus the functions which can be used.

#### AXOLUTE VIDEO DISPLAY



AXOLUTE VIDEO DISPLAY item 349311 (light) AXOLUTE VIDEO DISPLAY item 349312 (dark)

With AXOLUTE VIDEO DISPLAY you can select from 16 types of ring tone with already programmed tunes, which can be freely associated with the following calls:

- Call from entrance panel (configured with S = 0)

- Call from entrance panel (configured with S = 1)
- Floor call
- Intercom call

AXOLUTE VIDEO DISPLAY can be configured with 3 different levels of detail:

#### 1) Advanced configuration\*

allows the greatest degree of customisation by the user who can:

- write the menus in flexible mode
- customise the messages

- access all the MY HOME modes of operation. This configuration is made via PC and dedicated software (included in the product package)

#### 2) Guided configuration\*

clets the user access on the screen the video door entry and control menus of the MY HOME applications with less customisation than the advanced configuration. This configuration is made by means of OSD menu directly from the AXOLUTE VIDEO DISPLAY monitor. The customer can select predefined video door entry/home automation pages where he can enter the commands of the devices of his own home.

#### 3) Quick configuration

lets the user access menus with video door entry functions. It is the classic configuration with configurators to be put in the socket on the back of the device itself.



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Configurator N assigns a recognition number inside the system to each video handset. The audio handsets must be configured progressively. With audio handsets connected in parallel (in apartments without item 346850, max 3) these must be configured with the same configurator N. Audio handsets, video handsets and/or extra bells can be installed in parallel with the basic video handset.

#### P - association of the entrance panel

#### M – operating modes

Configurator  $\bar{\rm M}$  identifies the main AXOLUTE VIDEO DISPLAY menu and thus the functions which can be used.



### CONFIGURATION Handsets

#### POLYX MEMORY STATION



#### 344172 POLYX MEMORY STATION

With POLYX MEMORY STATION you can select from 16 types of ring tone with already programmed tunes, which can be freely associated with the following calls:

- Call from entrance panel (configured with S = 0)
- Call from entrance panel (configured with S = 1)
- Floor call
- Intercom call

POLYX MEMORY STATION can be configured with 3 different levels of detail:

#### 1) Advanced configuration\*

allows the greatest degree of customisation by the user who can:

- write the menus in flexible mode
- customise the messages

- access all the MY HOME modes of operation. This configuration is made via PC and dedicated software (included in the product package)

#### 2) Guided configuration\*

clets the user access on the screen the video door entry and control menus of the MY HOME applications with less customisation than the advanced configuration. This configuration is made by means of OSD menu directly from the POLYX MEMORY STATION monitor. The customer can select predefined video door entry/home automation pages where he can enter the commands of the devices of his own home.

#### 3) Quick configuration

lets the user access menus with video door entry functions. It is the classic configuration with configurators to be put in the socket on the back of the device itself.



#### N - number of the entrance panel

Configurator N assigns a recognition number inside the system to each video handset. The audio handsets must be configured progressively. With audio handsets connected in parallel (in apartments without item 346850, max 3) these must be configured with the same configurator N. Audio handsets, video handsets and/or extra bells can be installed in parallel with the basic video handset.

#### P - association of the entrance panel

Configurator P identifies the associated EP, i.e. the first entrance panel to auto-switch ON the first time the key is pressed  $\bigcirc_{\bigcirc}$  and which door lock with video handset at rest is activated by pressing the key  $\boxed{\bigcirc}_{\bigcirc}$ 

#### M – operating modes

Configurator  $\bar{\rm M}$  identifies the main POLYX MEMORY STATION menu and thus the functions which can be used.

#### POLYX VIDEO DISPLAY



POLYX VIDEO DISPLAY item 344162

With POLYX VIDEO DISPLAY you can select from 16 types of ring tone with already programmed tunes, which can be freely associated with the following calls:

- Call from entrance panel (configured with S = 0)
- Call from entrance panel (configured with S = 1)
- Floor call
- Intercom call

POLYX VIDEO DISPLAY can be configured with 3 different levels of detail:

#### 1) Advanced configuration\*

- allows the greatest degree of customisation by the user who can:
- write the menus in flexible mode
- customise the messages

- access all the MY HOME modes of operation. This configuration is made via PC and dedicated software (included in the product package)

#### 2) Guided configuration\*

clets the user access on the screen the video door entry and control menus of the MY HOME applications with less customisation than the advanced configuration. This configuration is made by means of OSD menu directly from the POLYX VIDEO DISPLAY monitor. The customer can select predefined video door entry/home automation pages where he can enter the commands of the devices of his own home.

#### 3) Quick configuration

lets the user access menus with video door entry functions. It is the classic configuration with configurators to be put in the socket on the back of the device itself.



#### N – number of the entrance panel

Configurator N assigns a recognition number inside the system to each video handset. The audio handsets must be configured progressively. With audio handsets connected in parallel (in apartments without item 346850, max 3) these must be configured with the same configurator N. Audio handsets, video handsets and/or extra bells can be installed in parallel with the basic video handset.

#### P - association of the entrance panel

Configurator P identifies the associated EP, i.e. the first entrance panel to auto-switch ON the first time the key is pressed  $\bigcirc \circ$  and which door lock with video handset at rest is activated by pressing the key  $\bullet$   $\circ$   $\bullet$ 

#### M – operating modes

Configurator  $\bar{\mathsf{M}}$  identifies the main POLYX VIDEO DISPLAY menu and thus the functions which can be used.



### TECHNICAL FEATURES TOUCH SCREEN item H/L4684

This special device lets you centralise and control the MY HOME system with a simple touch of your finger; it is included in the catalogue and is available in two versions, AXOLUTE item H4684 and LIVING/LIGHT/LIGHT TECH item L4684.

Touching the icons for the various functions which appear on a wide display, the touch screen can in fact switch the lights on and off, lower or raise the rolling shutters, water the garden, adjust the temperature in the various rooms, select the sound level of the Sound System amplifiers etc... The wide backlit display presents a "home page" which shows the applications it can manage graphically. Touching the icon of the application to be managed (e.g. lighting), a page will appear with the icons for the light points to be controlled.

Always with a simple touch on the icon chosen, the lamp or lamps associated with it will switch on or off. The device is programmed by connecting to a PC and using special software which can create the link between the icon of the function to be controlled and the respective MY HOME system in the home.

The TOUCH SCREEN can be easily installed on the wall by means of box item 506E and fits perfectly in any room in the home because it is finished off with all the colours finishes of the cover plates of the BTicino AXOLUTE, LIVING, LIGHT or LIGHT TECH domestic series.

#### **Technical features**

Power supply: 27 V d.c. da BUS Absorption: stand-by 80 mA (max.) Operating temperature: 0°C to 40°C



front view with AXOLUTE icons



### TECHNICAL FEATURES SCS-SCS interface item F422

The SCS-SCS interface communicates between buses based on the SCS technology, even if their functions are different.

The interface can work in five different ways:

#### 1 Physical extension of automation systems

It can increase the distance covered by the SCS bus or exceed the limits due to the absorption of the individual components without increasing the maximum number. It is useful with systems with many actuators.

#### 2 Logical extension of automation systems

It can increase the maximum number of devices which an be connected to a system.

Very useful for making large systems, e.g. houses on several floors.

The installation of the device in these two modes is described in the section "GENERAL RULES FOR INSTALLATION".

#### 3 Common riser

Allows communication between the Terraneo door entry systems or digital video door entry system and the automation or burglar-alarm systems in the individual dwellings. Useful for centralising the alarms of the apartments in an apartment block switchboard.

#### 4 Interface between the automation and burglar-alarm systems

Useful for making automations following events on the burglar-alarm system, such as switching on the garden lights if there is an attempted intrusion.

#### 5 Galvanic separation

Connects the video door entry system with an automation system allowing supervision via Web Server A/V.

The use of the interface in modes 3, 4 and 5 is described in the Guide MH06IN, chapter "System integration".

Absorption: 2mA





### TECHNICAL FEATURES Scenario programmer item MH200

The device, installed in a MY HOME system, runs the scenarios previously programmed with the TIMH200 software, supplied with the CD provided with the device. Installing the scenario Programmer item MH200 requires just the connection to the power supply and to the MY HOME Automation bus (see instruction sheet); some types of system which can be made are shown below.

#### **Technical features**

Installation: Connection network: Power supply: Maximum absorbed current : Operating temperature: Programming: Mechanical features: in switchboards for DIN modular devices Automation system Bus 12 Vdc not polarised with item 392100 200mA +5 to +40°C with Personal Computer 1 2-way connector for power supply; 1 2-way connector for SCS bus; 1 6-pole male connector for connection to Personal Computer by means of interface cable item 3559 (not supplied). Connection to the PC serial port







Ethernet network connector

Automation BUS Power supply 12V d.c.

#### Connection to the basic system



#### SYSTEM WITH PHYSICAL EXPANSION

Large systems or systems with power consumption greater than the 1200mA limit of the individual power supply are made up of several branches connected by interface item F422. In this case the scenario programmer must be connected to the system branch with higher addresses.





**NOTE (\*):** if so designed, the control devices configured with mode M = CEN can be connected at any point of the system.

### TECHNICAL FEATURES Scenario programmer item MH200

#### SYSTEM WITH LOGICAL EXPANSION

To exceed the limit of actuators which can be installed several systems can be connected on an automation bus by means of SCS/SCS interfaces. The bus on which all the others are connected performs the function of "private

riser".

In this type of system the scenario Programmer can only be connected to the "private riser", but the scenarios which can be produced can concern all the connected systems.



#### COMBINED SYSTEM

The conditions described in the previous sections can be present in just one system; the MH200 scenario Programmer must be connected directly to the "private riser", the scenarios which can be produced can concern all the connected systems, also including actions which concern different systems inside the same scenario.



#### TECHNICAL FEATURES 95

MY HOME CONTROL TECHNICAL GUIDE



# TECHNICAL FEATURES Scenario programmer item MH200



### TECHNICAL FEATURES AXOLUTE VIDEO STATION

#### AXOLUTE VIDEO STATION ITEM 349310

Front view

The speaker phone video handset terminal with 5.6  $^{\prime\prime}$  colour display and OSD menu has two BTicino sound system loudspeakers.

#### Description

- 1 5.6" colour TFT display
- 2 Navigation keys for OSD menu
- 3 2 wire sound system loudspeakers
- 4 Connection/answer key
- 5 Microphone
- 6 Audio-video active connection LED
- 7 Call exclusion LED
- 8 Door lock, door state and professional studio LEDs
- 9 Open door lock key (associated EP or connected EP)
- 10 Video door entry function keys
- 11 Connection to the BUS terminal
- 12 Configurator housing
- 13 Dip Switch to be positioned on ON in the last apartment or riser audio handset
- 14- Connector for PC connection with RS232 interface item 335919
- 15 Connector for PC connection with MINI-BUS wire
- 16 Extra power supply connection terminal

#### The device must be configured.

Video door entry keys and function LEDs



- 17 MUTE key activates/ deactivates the microphone during conversations.
- 18 EP/cycling activation.
- 19 Switching staircase lights ON.
- 20 Call bell exclusion (with door lock excluded the red LED (6) shines).



#### Door lock key

When connected opens the door lock of the connected Entrance panel, at rest opens the door lock of the associated Entrance Panel. The LED (red) signals the activation.

#### Connection key

Activates/deactivates the connection. When a call is received the LED (green) flashes. During the conversation it shines steadily. At rest it activates the pager function (if enabled).



Rear view



### TECHNICAL FEATURES AXOLUTE VIDEO DISPLAY

#### AXOLUTE VIDEO DISPLAY ITEM 349311 - 349312

The flush-mounted video door entry speaker phone terminal with 2.5" colour display and OSD menu implements the video door entry functions and controls the MY HOME applications.

#### Description

- 1 Colour LCD display: displays the menus which guide the use and programming operations, shows the pictures taken by the entrance panel or other cameras
- 2 Loudspeaker
- 3 Call bell exclusion LED

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- 4 Connection key; activates/deactivates the sound connection
- 5 Connection LED
- 6 Entrance panel and cycling connection key
- 7 Door lock/door state LED
- 8 Door lock key; activates the electric door lock of the associated or connected entrance panel
- 9 Navigation key pad; navigates inside the menus, confirms (OK key) or cancels (C key) the programming operations
- 10 Microphone
- 11- Mini-USB connector for the connection to the PC
- 12 Configurator housing
- 13 Connection terminals to the BTicino 2 wire digital system BUS.
- 14- ON/OFF stretch ending microswitch to be positioned on ON in the last audio handset of the riser

Door lock key

activation.

When connected opens the door

lock of the connected Entrance panel, at rest opens the door lock of the associated Entrance

Panel. The LED (red) signals the

**Entrance Panel/Cycling Activation** Activates the switching ON of the

other Entrance Panels or cameras.

associated Entrance Panel and cycles any

15 - Extra power supply connection terminal

Video door entry keys and function LEDs

Ο

#### The device must be configured.









#### Connection key

Activates/deactivates the connection. When a call is received the LED (green) flashes. During the conversation it shines steadily. At rest it activates the pager function (if enabled).

## TECHNICAL FEATURES POLYX MEMORY STATION

#### POLYX MEMORY STATION ITEM 344172

Video door entry speaker phone terminal with 5.6" colour display and OSD menu implements the door entry functions and controls the MY HOME applications. It also gives the audio-video memory of the video door entry calls and the video door entry answering machine.

#### Description

- 1 Microphone
- 2 Colour LCD display: displays the menus which guide the use and programming operations, shows the pictures taken by the entrance panel or other cameras
- 3 Navigation key pad; navigates inside the menus, confirms or cancels the programming operations
- 4 Call exclusion LED
- 5 Connection key; activates/deactivates the connection
- 6 Connection LED
- 7 Answering machine functions
- 8 Door lock LED
- 9 Door lock key; activates the electric door lock of the associated or connected entrance panel
- 10 Video door entry function keys
- 11 Loudspeaker
- 12 Connection to the BUS of the BTicino 2 wire digital system.
- 13 Configurator housing
- 14 ON/OFF stretch ending microswitch
- 15 -Connector for the connection to the PC via wire-RS232 interface item 335919
- 16 -Mini-USB connector for the connection to the PC
- 17 Connector for extra power supply

#### The device must be configured.

Video door entry keys and function LEDs



Mute Deactivates / activate

Deactivates/activates the microphone during a sound connection.

#### Entrance Panel/Cycling Activation

Activates the switching ON of the associated Entrance Panel and cycles any other Entrance Panels or cameras.

#### Staircase lights

Activates the staircase light relay.

#### Call exclusion

Deactivates/activates the call bell. If the bell is disabled the LED (red) shines.

**Door lock key** When connected opens the door lock of the connected Entrance panel, at rest opens the door lock of the associated Entrance Panel. The LED (red) signals the activation.

#### **Connection key**

Activates/deactivates the connection. When a call is received the LED (green) flashes. During the conversation it shines steadily. At rest it activates the pager function (if enabled).





#### Answering machine functions

Answering machine LED active		  ປ	0 <b># ()</b> []][][]		● ○ II/►	New message LED
ن ن	ON/O Deact Bin	)FF ivates/a	activates th	e video do	oor entry	answering machine.
	Rec Activa LED fl	g the pla ates the ashing)	recording of with the end	during the ntrance pa	connecti nel.	entry messages.
/▶	<b>Play/</b> Activa	' <b>Pause</b> ates/pau	uses the pla	aying of th	e video	door entry messages.

### **TECHNICAL FEATURES** POLYX VIDEO DISPLAY

#### POLYX VIDEO DISPLAY ART. 344162

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Video door entry speaker phone terminal with 3.5" colour display and OSD display implements the door entry functions and controls the MY HOME applications.

#### Description

- 1 Microphone
- 2 Colour LCD display: displays the menus which guide the use and programming operations, shows the pictures taken by the entrance panel or other cameras
- 3 Navigation key pad; navigates inside the menus, confirms or cancels the programming operations
- 4 -Entrance panel and cycling connection key
- 5 Connection key; activates/deactivates the connection to the entrance
- panel
- 6 Connection LED
- 7 Loudspeaker
- 8 Door lock LED; activates the electric door lock of the associated or connected entrance panel
- 9 Door lock key
- 10 Call exclusion key
- 11 Call exclusion LED
- 12 Mini-USB connector for the connection to the PC
- 13 Configurator housing
- 14 Connector for extra power supply
- 15 ON/OFF stretch ending microswitch
- 16 Connection to the BUS of the BTicino 2 wire digital system

#### The device must be configured.

#### Video door entry function keys



#### **Entrance Panel/Cycling Activation**

associated Entrance Panel and cycles any other Entrance Panels or cameras.



#### **Call exclusion**

Deactivates/activates the call bell. If the bell is disabled the LED (red) shines.



#### Door lock key

When connected opens the door lock of the connected Entrance panel, at rest opens the door lock of the associated Entrance Panel. The LED (red) signals the activation.



#### **Connection key**

Activates/deactivates the connection. When a call is received the LED (green) flashes. During the conversation it shines steadily. At rest it activates the pager function (if enabled).







### TECHNICAL FEATURES F453AV and F452

#### F453AV

- 1 RJ 45 for Ethernet 10/100Mbit LAN
- 2 2 wire BUS for video door entry system connection
- 3 For future use
- 4 2 wire BUS for anti-intrusion system
- 5 Power supply item 346000 connection
- 6 Only for assistance
- 7 USB port for configuration via PC and Firmware updating
- 8 User interface:

- Speed: Connection speed on = 100 Mbit; off = 10Mbit

- Full: On = full duplex, Off = half duplex
- Link: ON indicates the presence of the Ethernet network
- Aux: Key for future use
- System: On connecting the power supply it lights up, goes out and the next time it lights up indicates that the web server is operating.



- 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  $_{\sim}$  :
- 60 mA (at rest)
- 110 mA (with send and receive commands remotely).
- Max power dissipated: 1.5 W
- 1 RJ 45 for Ethernet 10/100Mbit LAN
- 2 BUS for MY HOME system connection
- 3 Power supply 12V a.c.
- 4 Connector for programming cable
- 5 Reset key



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### DIMENSIONAL DATA

#### AXOLUTE MODULAR DEVICES





Item	Dimensi	ions (mm)		No. of DIN module	s
	А	В	C		
346000	140	90	60	8	
392100	105	90	60	5	
F420	35	105	47+20	2	
F453AV	175	90	60	10	
F452	105	90	60	6	
MH200	105	90	60	6	



L4684

#### AXOLUTE VIDEO STATION





MY HOME CONTROL TECHNICAL GUIDE



# REMOTE CONTROL

### THE NEWS



#### F453AV

F453AV audio/video Web Server for the remote control of MY HOME systems. Can interface the 2 wire Video door entry systems. Dedicated connection terminals for burglar-alarm system.





### **SECTION CONTENTS**

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# Remote control

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.

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, burglaralarm, 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




EXAMPLE OF THE "VIDEO DOOR SYSTEM ANSWERING MACHINE" DISPLAY



# MY HOME Control

#### **FUNCTIONS PERFORMED BY THE DEVICES**

		ADSL	
	ITEM F453AV	ITEM F452	
FUNCTIONS			
utomation Lighting ON/OFF	*	*	

Automation			
- Lighting ON/OFF	*	*	
- Rolling shutter UP/down			
Burglar-alarm	*	*	
Energy management	*	*	
ССТУ	*		
max 96 cameras			
(connecting the F453AV			
to a 2 wire digital video door			
entry system)			
Display the pictures			
in black and white			
and colour			
Temperature control	*	*	
Condition of the second for the second for the instance of the second second second second second second second			
sending e-mail messages following instrusions and technical alarm	*	*	
Sending an SMS following specific events, request for current state,	, <mark>alarms *</mark>	*	
Only with MY HOME portal			
Sending voice calls in case of burglar intrusion and			
technical alarm			
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 TELEF	PHONE LINE (PSTN)
ITEM F462	ITEM 3500GSM	ITEM 3500N	ITEM F461/2
	9966 ( 9966 0 9966 0 9969 0 1 1		
*	*	*	*
Control of single electric loads	*	4	Control of single electric loads
	*	*	
Switching ON and OFF remotely	*	*	
*			
*	*	*	

# Audio/video WEB Server item F453AV

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 and can directly interface with the burglar-alarm system and the 2 wire video door entry system.

#### GENERAL FEATURES

ticino

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<sup>®</sup>, 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 TiF453AV 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.).

In the room using the MHVISUAL program one can control lights and automation, monitor the burglaralarm system, control cameras and manage/force the state of the power management loads.



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 TIF453AV software can be displayed.

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





# WEB Server item F452

This device 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. 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);

Using the MHVISUAL program one can control lights and automation, monitor the burglar-alarm system, control cameras and manage/force the state of the power management loads.



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 TiF452 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.



# ADSL Modem Router item MH300

ticino

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

The MH300 can be configured with a browser or through a special configuration program supplied by BTicino (included in the item). BTicino ADSL Wi-Fi Modem routers also allow you to create a LAN network or a Wi-Fi LAN network within the system.

LAN

Wi-Fi

LAN

**ADSL** line

connection



# Point access item MH301

The MH301 is a Wi-Fi access point and has the function of "repeating" to create Wi-Fi networks in homes with several floors where one cannot have connections with the existing network.

The configuration is achieved through the browser. An MH301 is required for each floor of the house. All MH301s must be wired with a LAN cable to the Wi-Fi Modem router or Wi-Fi Modem router used for the Internet connection.

The MH301 must be configured before it is put into the system.



PC3 P: 192.168.1.37 SM:255.255.225.0

PC1

IP: 192.168.1.36 SM:255.255.225.0

# Burglar-alarm control unit with PSTN or GSM telephone 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 PSTN (3500N) or GSM (3500GSM) telephone line.

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

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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.



control unit with PSTN telephone dialling device item 3500N control unit with GSM telephone dialling device item 3500N GSM

#### TELEPHONE COMMANDS

The devices installed in the home can be commanded using the fixed-line or the mobile phone by using predefined codes.

#### 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 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.

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.





# Burglar-alarm control unit with PSTN or GSM telephone dialling device

#### EXAMPLES OF USE

6 examples of use of the burglar-alarm control unit with PSTN or GSM telephone dialling device are proposed below in graphic form. Remember that each device can supply all the performance indicated simultaneously.



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





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).



#### 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.

#### GENERAL FEATURES 119

MY HOME CONTROL TECHNICAL GUIDE



# GSM telephone activator item F462

Can make actuations remotely via GSM telephone line. Loads are activated or deactivated with a simple SMS. The device is set up to have 2 alarm contacts. When the state of one of the contacts changes the device sends an alarm SMS to the saved number. The device can be interfaced with the BTicino timer thermostats to switch the system ON or OFF remotely. Using the L/N/NT4550 timer thermostat one can also interrogate the system state remotely and set it to a particular temperature.







#### GENERAL FEATURES 121

MY HOME CONTROL TECHNICAL GUIDE

# Telephone actuator item F461/2

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

ticino

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

#### **TEMPERATURE CONTROL**

To activate or deactivate the boiler in combination with BTicino timer thermostats.

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.

#### LIGHT AND TEMPERATURE CONTROL MODE

Remotely controls the switching ON and OFF of lights and rolling shutters and the temperature control.



# Programming software

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BTicino has developed Software dedicated to programming the Web Servers. A CD containing the TiF453AV and TiF452 Software is supplied with the WEB Servers (item F452 and item F453AV). The Software is designed for Windows 98B environments or higher.

#### TIF453AV

This program supplied with F453AV 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 F453AV 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.



#### TIF452

This program, 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 programs (browsers). The program allows you to program:

- 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 program 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.

https://indirizzo.mio.web	server			
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	Bticino			OMY HOME
SCENARS O		Atting	State	
ILLUNINAZIONE	Luce Sala ON		1	
	Luce Sala OFF			
	Luce Cucina ON			
	Luce Cucina OFF	0		
ALLARHT ()-()	Luce Giardino O		1	
	Luce Giardino O			
SEGRETERIA	Dimmer Soggiorn			
~	Dimmer Soggiorn			

Example of a WEB page programmed with TiF452



# Control devices

	WEB	SERVER	
	Item	Description	No. of DIN mod.
F453AV	F453AV	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 control and 2 wire video door entry system	10
		It also implements the CCTV home functions - power supply 346000	
	F452	WEB Server to monitor and control SCS systems by means of WEB pages - allows two-way communication between user and SCS system - power supply 392100	6
F452			
	MOD	EM ROUTER ADSL	











(atatata)

#### MH301

#### Item Description C9455 HUB-Switch to be used with item MH300 to create a LAN. Power supply between 10 to 35 V d.c. - 6 DIN modules. C9450 HUB-Switch to be used with item MH300 to amplify a LAN. Power supply 230V a.c. - Magnet for anchoring. Wi-Fi ADSL Modem Router. To be used for connecting WEB Servers MH300 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.

		Item	Description	
-	and a second sec	3500N	Burglar-alarm control unit with integrate Set up for the connection of the new BT	ed telephone dialling device. icino stereo sound system.
9966 <sup>0</sup> °°	9960 (m 1	3500GSM	Burglar-alarm control unit with integrat device. Set up for the connection of the system. When there is no GSM signal re can be connected to the PSTN telephon antenna included.	ed GSM telephone dialling e new BTicino stereo sound eception, the dialling device e line. Module with GSM
3500N	3500GSM			
		DST		
		PST	N TELEPHONE ACTUATOR	
		PST Item	N TELEPHONE ACTUATOR Description tables as the term of ter	No. of DIN modules
·erenever.•		PST Item F461/2	N TELEPHONE ACTUATOR Description telephone actuator with 2 relays	No. of DIN modules
•manier.•		PST Item F461/2	N TELEPHONE ACTUATOR Description telephone actuator with 2 relays independent with contact in switchboard power supply 230 V a c	No. of DIN modules
•mmm.•		PST Item F461/2	N TELEPHONE ACTUATOR Description telephone actuator with 2 relays independent with contact in switchboard, power supply 230 V a.c	No. of DIN modules 3
	T 127 T 187	PS1 Item F461/2 	N TELEPHONE ACTUATOR Description telephone actuator with 2 relays independent with contact in switchboard, power supply 230 V a.c M TELEPHONE ACTUATOR	No. of DIN modules 3
		PST Item F461/2 GS/ Item	TN TELEPHONE ACTUATOR Description telephone actuator with 2 relays independent with contact in switchboard, power supply 230 V a.c M TELEPHONE ACTUATOR Description	No. of DIN modules
	••••••••••••••••••••••••••••••••••••••	PST Item F461/2 GSJ Item F462	N TELEPHONE ACTUATOR Description telephone actuator with 2 relays independent with contact in switchboard, power supply 230 V a.c M TELEPHONE ACTUATOR Description GSM telephone activator for activation/deactivation of 2 loads by	No. of DIN modules 3 No. of DIN modules 4

## GENERAL RULES FOR INSTALLATION Web Server item F452 and item F453AV

The Ethernet cable should **not be a crossover** cable (pin to pin) if the WEB Server is connected to an 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.

#### WARNINGS

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- 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 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.

#### INSTALLATION AND MAIN OPERATIONS

- 1. Carry out wiring operations as described below and in the following page.
- Install the TiServer program (for item F452) or the TiF453AV program (for item F453AV) on the PC which will be used for the configuration. The PC should be connected to the WEB Server through a serial port or USB (please see the TiF453AV or TiServer user manual).

During the first installation and whenever the setting of the WEB Server needs to be modified, the PC serial port or USB must be used. The same method must be used when uploading programming already saved in the WEB Server and when updating firmware.

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 BUS of the burglar-alarm system (F453AV);
- to the BUS of the automation system (F452);
- to the 2 WIRE video door entry system/automation BUS (F453AV);
- to the 10BASET Ethernet communication network.
- 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.

#### F452 INSTALLATION RULES



# GENERAL RULES FOR INSTALLATION- Burglar-alarm control unit with PSTN or GSM 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.

# GENERAL RULES FOR INSTALLATION - Burglar-alarm control unit with PSTN or GSM dialling device

#### USABLE CABLE

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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.



#### USE

#### Activation - Deactivation of loads

Can activate and deactivate electrical loads and timer thermostats by sending an SMS to the device.

#### Activation - Deactivation of boiler by means of BTicino timer thermostats

By means of SMS can activate/deactivate the boiler connecting the output contact at F462 to the timer thermostat remote contact.

#### Control and setting of the L/N/NT4450 timer thermostat

By means of SMS can receive the timer thermostat temperature and set the switching ON temperature.

#### Alarm contacts

The device sends an SMS when the alarm contacts of the device itself open (or close)

#### INSTALLATION OF GSM CONTROL UNIT

Install the device in a plastic DIN switchboard positioned in a protected zone and where there is a field.

Use a mobile phone to check the zone reception. Also use a mobile phone to remove the card PIN code and set the service centre number.

# GENERAL RULES FOR INSTALLATION Telephone actuator

#### USE

#### Activation, deactivation and check commands

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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 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.

#### 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. 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 control.



#### **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

#### RC -DIAGRAM 1 F453AV - CONNECTION TO THE MY HOME SYSTEM



2 wire video door entry system

2 WIRE sound system

#### RC -DIAGRAM 2 F452 - CONNECTION TO THE MY HOME SYSTEM



#### RC -DIAGRAM 3 GSM TELEPHONE ACTIVATOR



L/N/NT4450



## WIRING DIAGRAMS

#### RC -DIAGRAM 4 TELEPHONE ACTUATOR



# PROGRAMMATION Web Server item F453AV

#### F453AV

The F453AV audio/video WEB SERVER is configured with the TiF453AV software. The program is downloaded to the device using a LAN connection (with cross-over cable if the PC-F453AV is direct, without using HUB/SWITCH) or via the USB cable item 3559).



## PROGRAMMATION Web Server item F452

The Web Server (F452) is programmed with a software called TiF452 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:

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- 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 pushbuttons which can be personalised, of the devices of the Lighting, Automation, Burglar-alarm, Energy Management and CCTV systems via remote PC with Internet Explorer 5.5 browser program or similar.



TiServer program window where the lights page is defined

## PROGRAMMING Router item MH300

#### PROGRAMMING THROUGH DEDICATED SOFTWARE

BTicino has developed a dedicated Software for MH300 setting. 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).



# PROGRAMMING Access Point item MH301

#### PROGRAMMING THROUGH BROWSER

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 program the Access Point.





## PROGRAMMING Burglar-alarm control unit item 3500 and item 3500GSM

#### PROGRAMMING VIA A SOFTWARE

The control unit can be programmed by means of TiSecurity programming software.

#### PROGRAMMING BY MEANS OF OSD MENU

The control unit can also be programmed by means of OSD menu displayed directly on the control unit display.



## PROGRAMMING Telephone actuator item F461/2

#### 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 control: 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).



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).



#### AUTOMATIC OPERATING 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 operating mode is recommended to control users which are interlocked, such as the operation of a rolling shutter (up/down), motors (forwards/backwards), etc.



#### TEMPERATURE CONTROL 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.



## TECHNICAL FEATURES Web Server item F453AV

#### F453AV

1 - RJ 45 for LAN Ethernet 10/100Mbit

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- 2 2 wire BUS for connection of digital Video door entry system
- 3 For future use
- 4 2 WIRE BUS for anti-intrusion system
- 5 Power supply item 346000 connection
- 6 Only for assistance
- 7 USB port for configuration via PC and Firmware updating 8 - User interface:
  - Speed: Connection speed; on = 100 Mbit; off = 10Mbit
  - Full: on = full duplex, off = half duplex
  - Link: ON indicates the presence of the Ethernet network
  - Aux: Key for future use
  - System: Connecting the power supply it lights up, goes out and the next time it lights up indicates that the web server is operating.




## **TECHNICAL FEATURES** Web Server item F452 and burglar-alarm control unit

#### **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<sup>®</sup> 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  $\approx$  :
- 60 mA (at rest)
- 110 mA (with send and receive commands remotely).
- Max power dissipated: 1.5 W



Reset key

#### BURGLAR-ALARM CONTROL UNIT WITH PSTN AND GSM 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.

Red LED Flashing = switching

on/maintenance



### GENERAL FEATURES Burglar-alarm control unit

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



### TECHNICAL FEATURES GSM telephone activator item F462



#### **TECHNICAL FEATURES**

Quad band E GSM850/900/1800/1900 MHz

Power in output: - Class 4 (2W) for 850/900 MHz - Class 1 (1W) for 1800/1900 MHz Sensitivity:

- 107dBm@ 850/900MHz - 106dBm@ 1800/1900MHz

Power supply voltage 10 to 20 Vac/Vdc Consumption: Idle 30mA 500mA MAX Operating temperature -20 to +60°C / -30 to +80°C ★ Mounting on back of panel on EN 50022 rail, 4 modules E N 60529 degree of protection : IP40 (if correctly installed) Output contacts 4(2)A-250Vac Contacts free of voltage

\* Reduced sensitivity



## GENERAL FEATURES Telephone actuators item F461/2

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

#### General view



#### 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.



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  $% \left( \mathcal{A}^{\prime}\right) =0$ 

#### 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

### TECHNICAL FEATURES Switch

#### SWITCH C9455

 $6\mbox{-port}$  switch on DIN rail. It must be supplied with a dedicated power supply with output between 10 and 35V d.c.



#### Legend

- 1 Power
- 2 Transmission speed: - OFF 10Mb/s
- ON 100 Mb/s
- 3 Link activity

Expansion

Max. distance between SWITCH = 100 m.

0

daments

# **TECHNICAL FEATURES** Switch

#### SWITCH C9450

Surface-mounted 8-port switch.

ticino

#### Features

- Weight: 350 gr
- Operating temperature: from 0° to 40° C
- from 20% to 80% humidity (without condensation) Power supply voltage: from 100 to 240V a.c. 50/60Hz
- Consumption: 15W maximum



#### Mounting

The C9450 can be mounted in 2 ways:

1. Using the magnetic bands mounted on the back of the object.

2. By means of screws inserted in the side eyelets.



#### Expansion



### DIMENSIONAL DATA

### DEVICES ON DIN RAIL



nem	Dimensi	uns (min)		modules	I
	Α	B	C		
F461/2	52.5	90	60	3	
F452	105	90	60	6	
F453AV	175	90	60	10	
F462	70	90	60	4	

A B C   C9455 105 90 30 6   346000 140 90 61 8   392100 105 90 61 6	Item	Dimensi	ons (mm)		No. of DIN modules
C9455 105 90 30 6   346000 140 90 61 8   392100 105 90 61 6		Α	В	C	
346000 140 90 61 8   392100 105 90 61 6	C9455	105	90	30	6
<b>392100</b> 105 90 61 6	346000	140	90	61	8
	392100	105	90	61	6

#### BURGLAR-ALARM CONTROL UNIT WITH PSTN AND GSM TELEPHONE DIALLING DEVICE







3500GSM



3500N

#### SWITCH C9450





# NOTES


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# NOTES


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