home automation

MITH○+ PLUS

Touch Screen multifunction video terminal

bpt

Merging Home Automation with Video Entry System and Security.

Mitho is the innovative colour touch screen multipurpose terminal, designed for the management and control of electric home automation, security and the video entry system. It offers a new user-system interface concept, focusing on simplicity and easy access to the various functions available. The new terminal has lots of new features, including the LCD touch screen display in 4.3" wide screen 16:9 format. The large display offers full screen navigation of the various menus that enhance user interaction with the system. Menu navigation is simple and intuitive, based on colour codes that facilitate the association of the functions with the colours. Mitho is a terminal characterised by an original stylistic feature, highlighting the single video component in a geometrically perfect way.

ALL-IN-ONE

bpt

System management and control

MITHO+PLUS

Touch Screen Multifunction Video Terminal

MITHO+PLUS
Everything is under control.

Mitho controls the temperature.

You can manage various heating zones, assigning different temperatures to each of them. There is also a series of set programmes. Choosing between 5 different temperature levels makes it possible to meet all your heating needs at the programmed times and days.

Mitho activates the irrigation system.

You can create a system, without having to purchase expensive irrigation equipment, and customise watering times and cycles for every single zone.

Mitho means that you can be at home even when you are out.

With the GSM communicator, you can use text messages to remotely control some of the home automation and burglar alarm system functions, and receive status and alarm alerts. You can use your mobile to activate scenarios, regulate the heating system, activate the burglar alarm system or receive information on the system operating status (technical alarm alerts, mains status alerts, etc.) or alarms (intrusion alerts, mains alert, etc.).

Mitho opens and closes.

You can control, from just one place, curtains, blinds, shutters, skylights or any other movement application. With the timer function, you can create lighting and ventilation scenarios in the rooms. You can stop the elements in a certain position, and to prevent overloads in the electrical system, you can sequentially programme the activation times.

Mitho saves energy.

As regards energy consumption, you can select the weekly consumption profile so as to enable energy savings to suit your needs on the basis of the priorities you have set.

bpt
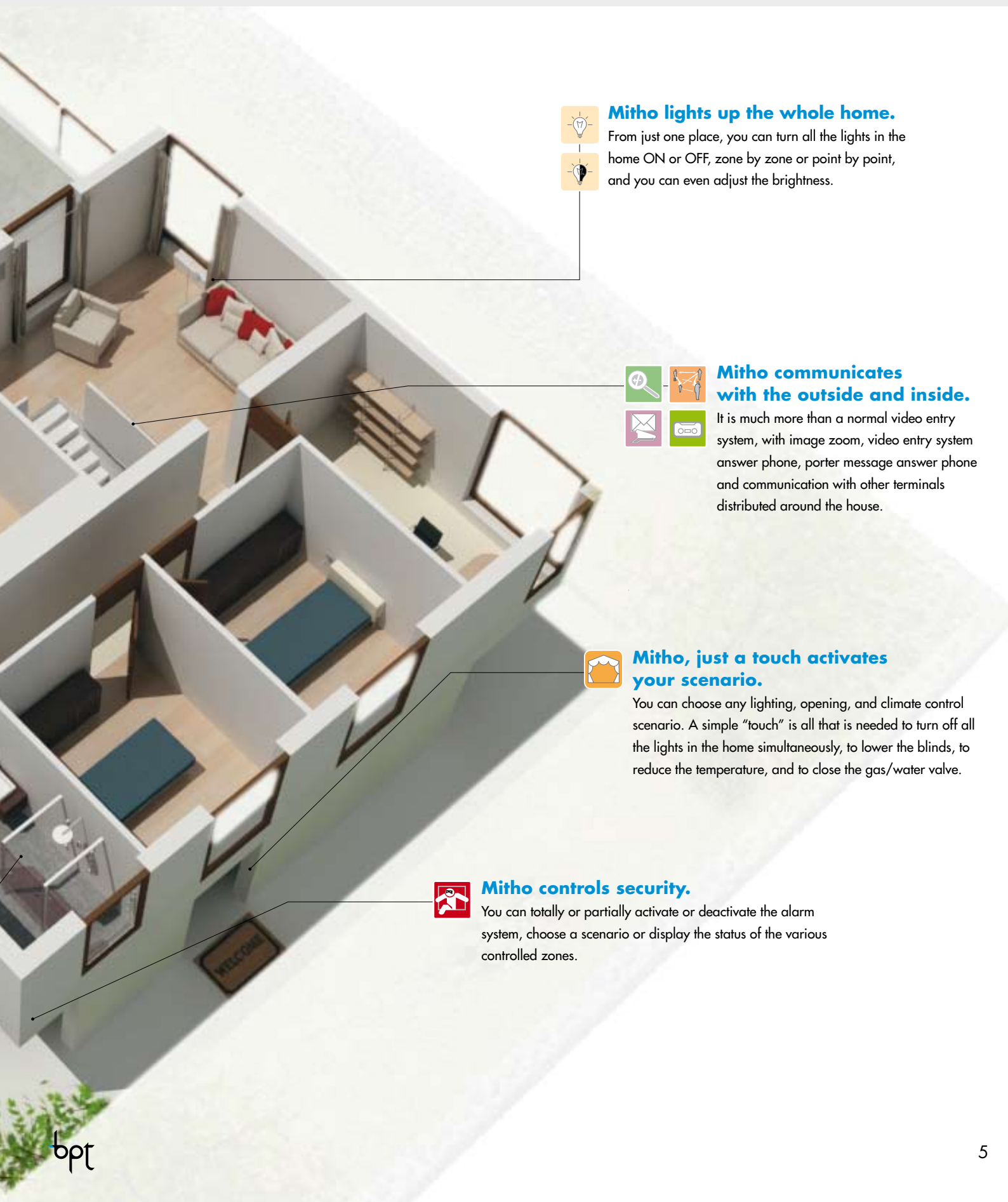
Mitho lights up the whole home.

From just one place, you can turn all the lights in the home ON or OFF, zone by zone or point by point, and you can even adjust the brightness.

Mitho communicates with the outside and inside.

It is much more than a normal video entry system, with image zoom, video entry system answer phone, porter message answer phone and communication with other terminals distributed around the house.

Mitho, just a touch activates your scenario.

You can choose any lighting, opening, and climate control scenario. A simple "touch" is all that is needed to turn off all the lights in the home simultaneously, to lower the blinds, to reduce the temperature, and to close the gas/water valve.
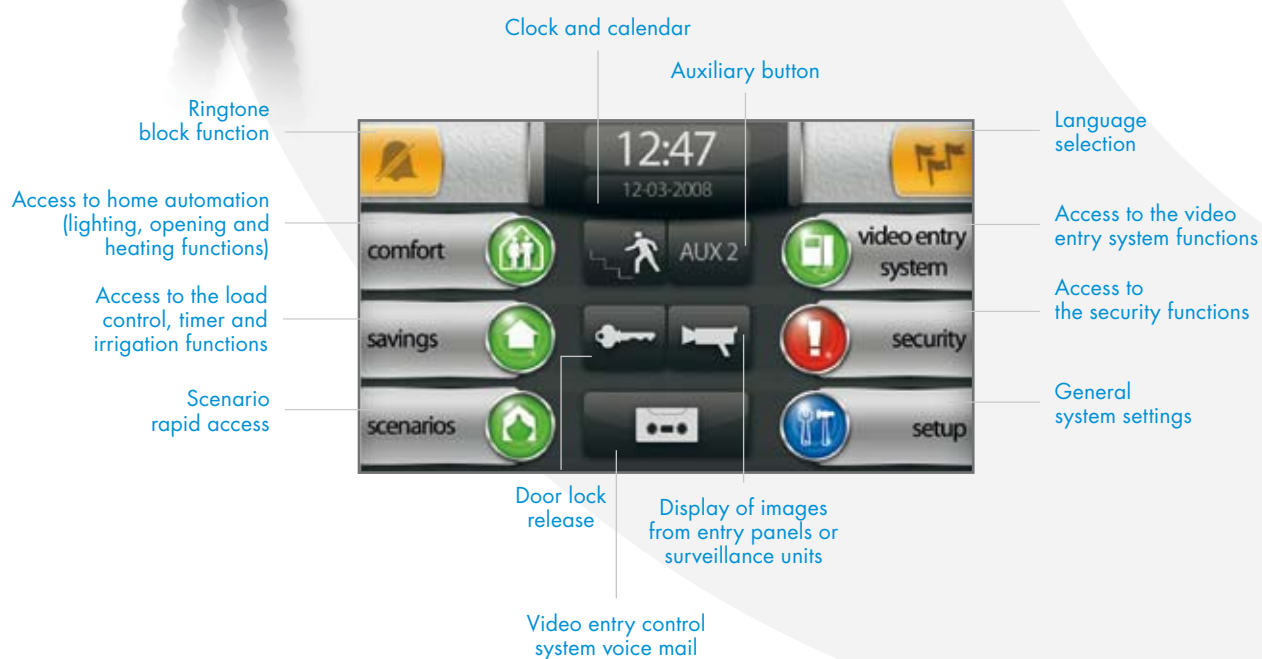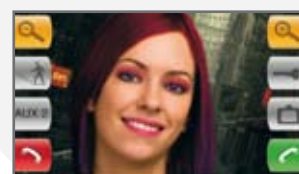
Mitho controls security.

You can totally or partially activate or deactivate the alarm system, choose a scenario or display the status of the various controlled zones.
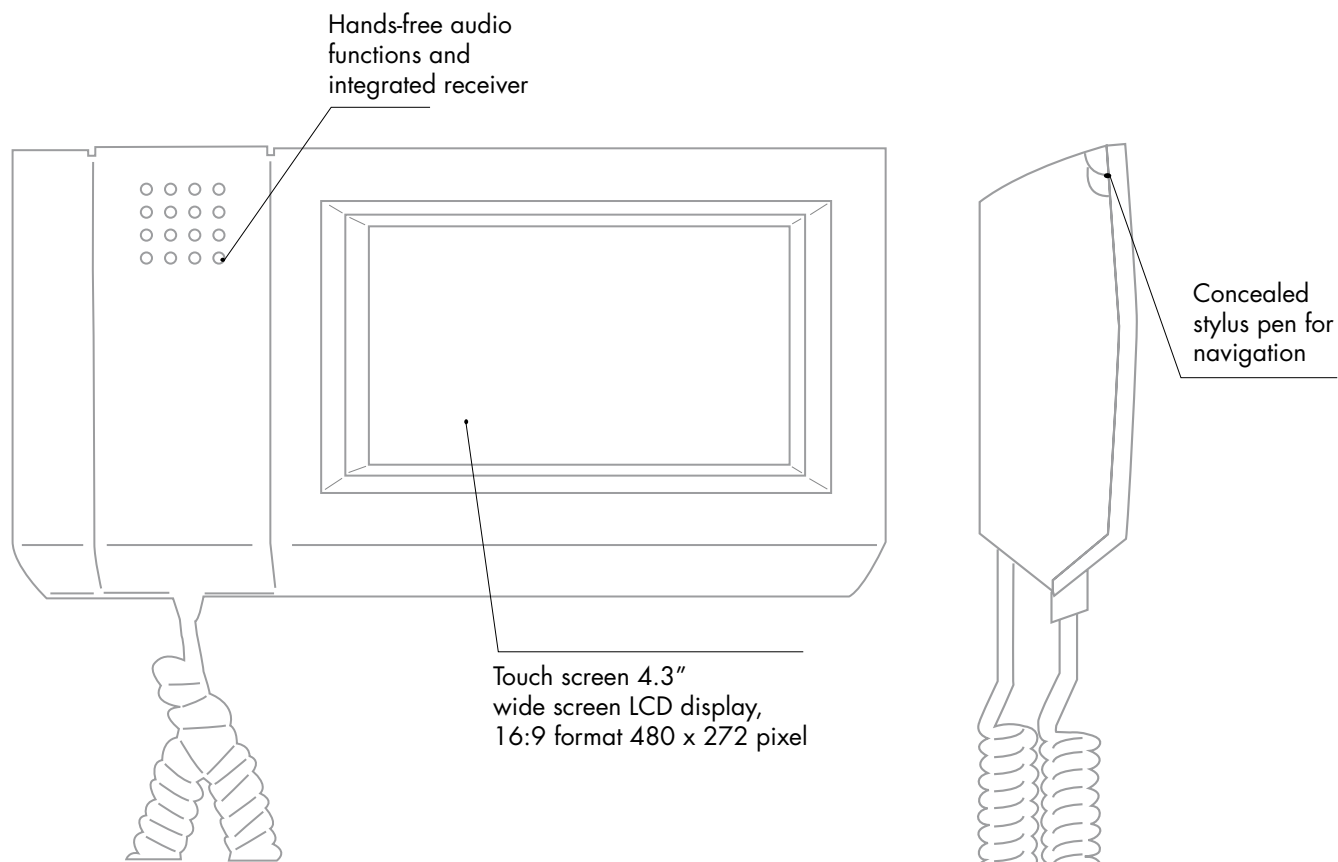
bpt

MITHO+PLUS
The terminal.

The multifunction MITHO terminal makes it possible to control and monitor all the system devices and functions. By simply touching the **touch screen display**, you can switch lights on and off, regulate the temperature in the various environments, open or close the blinds, check the burglar alarm status or enter a security scenario. The large terminal **display** allows you to answer video entry system calls and communicate with any other terminals in your home, as well as listen to your video entry system answer phone messages.
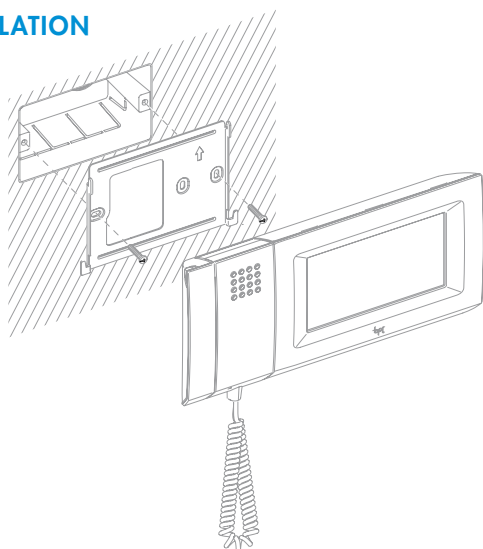
Ringtone block function

Access to home automation (lighting, opening and heating functions)

Access to the load control, timer and irrigation functions

Scenario rapid access

Clock and calendar

Auxiliary button

Language selection

Access to the video entry system functions

Access to the security functions

General system settings

comfort

savings

scenarios

video entry system

security

setup

Door lock release

Display of images from entry panels or surveillance units

Video entry control system voice mail

bpt

TECHNICAL FEATURES

Hands-free audio functions and integrated receiver

Concealed stylus pen for navigation

Touch screen 4.3"
wide screen LCD display,
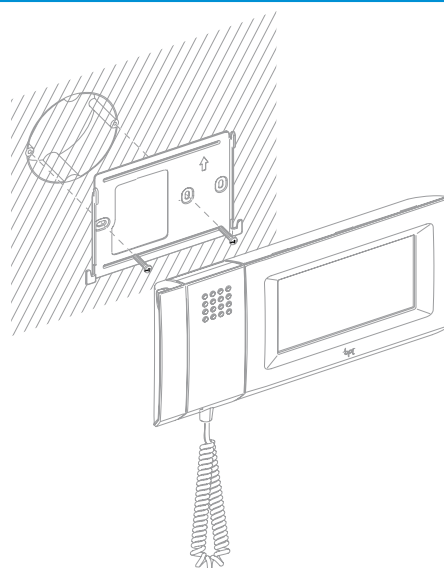16:9 format 480 x 272 pixel

PRODUCT DIMENSIONS
203,5x108,4x30,8 mm

INSTALLATION

Rectangular recessed box, type 503

Round recessed box, diameter 60 mm

NOTE: the wall fixture bracket is included in the package.

MITH○+^{PLUS}
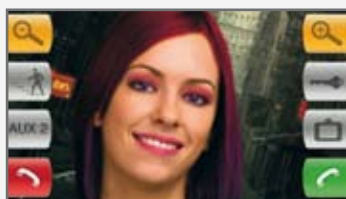## Video entry system functions.

SPECIFIC FUNCTIONS

Image zoom with various levels

Video entry control system voice mail that can store up to 10 video messages

Porter voice mail with a maximum of 30 messages

MITHO+PLUS

Image zoom

Answer
Call reject
Door lock release

Stair light/Aux Mute

Intercom

Video entry call answer
phone/Porter message
answer phone

Display of images
from entry panels or
surveillance units

Building function

Display of images from
entry panels or surveillance
units, max 4

Intercom address book

Possibility to select 9
different ring tunes

Building function:
privacy, panic, porter

MITHO+ PLUS
Home automation functions.

SPECIFIC FUNCTIONS

Lights ON/OFF and dimmer function by zone, room or individual light fitting

Scenario activation controls

5-level temperature regulation and weekly programming for every zone

Light dimming

Light timing for any hour of the day and for any day of the week

Manual temperature regulation for every zone

Lighting/
light dimming

Automation
of openings

Heat regulation

Irrigation

Management
of electrical loads

Timer

Scenarios

Automation of openings:
open/close control by zone
and by individual fitting
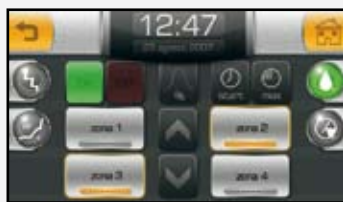
Irrigation ON/OFF control
by zone and by time
bands. Irrigation cycle
programming; seasonal
irrigation time adjustment
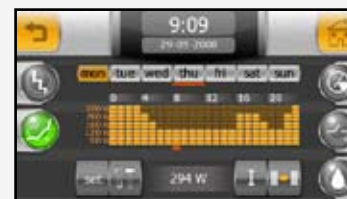
Electrical load
management in relation
to the maximum power
available and set
priorities. As regards
energy consumption, you
can select the weekly
consumption profile so as
to enable energy savings
to suit your needs on the
basis of the priorities you
have set

MITHO+PLUS
Burglar alarm functions.

SPECIFIC FUNCTIONS

User code entry keypad

Control unit selection for systems with several burglar alarm systems

Partial system enablement

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	Total system enablement or partial system enablement
	Disabling the system
	Alarm silencing
RESET	Alarm display reset
	Alarm memory consultation
A1 A2 A3 A4	Area status display
	Security scenario

Alarm status display

Alarm status display by control unit

Alarm memory consultation

Security scenario activation controls

Alarm status display by area

MITHO+PLUS
Home automation system architecture.

TERMINAL

APARTMENT A

Twisted-pair cable, insulation 5 mm*

Multimaster bus	
2-wire X1 Video Entry System bus	
Automation bus	
B2 Burglar Alarm bus	
Entry panel power supply	
Local power supply	
UTP5	

APARTMENT B

APARTMENT C

VIDEO ENTRY SYSTEM DISTRIBUTOR

APARTMENT D

2-WIRE X1 VIDEO ENTRY SYSTEM UNIT

ENTRY PANEL
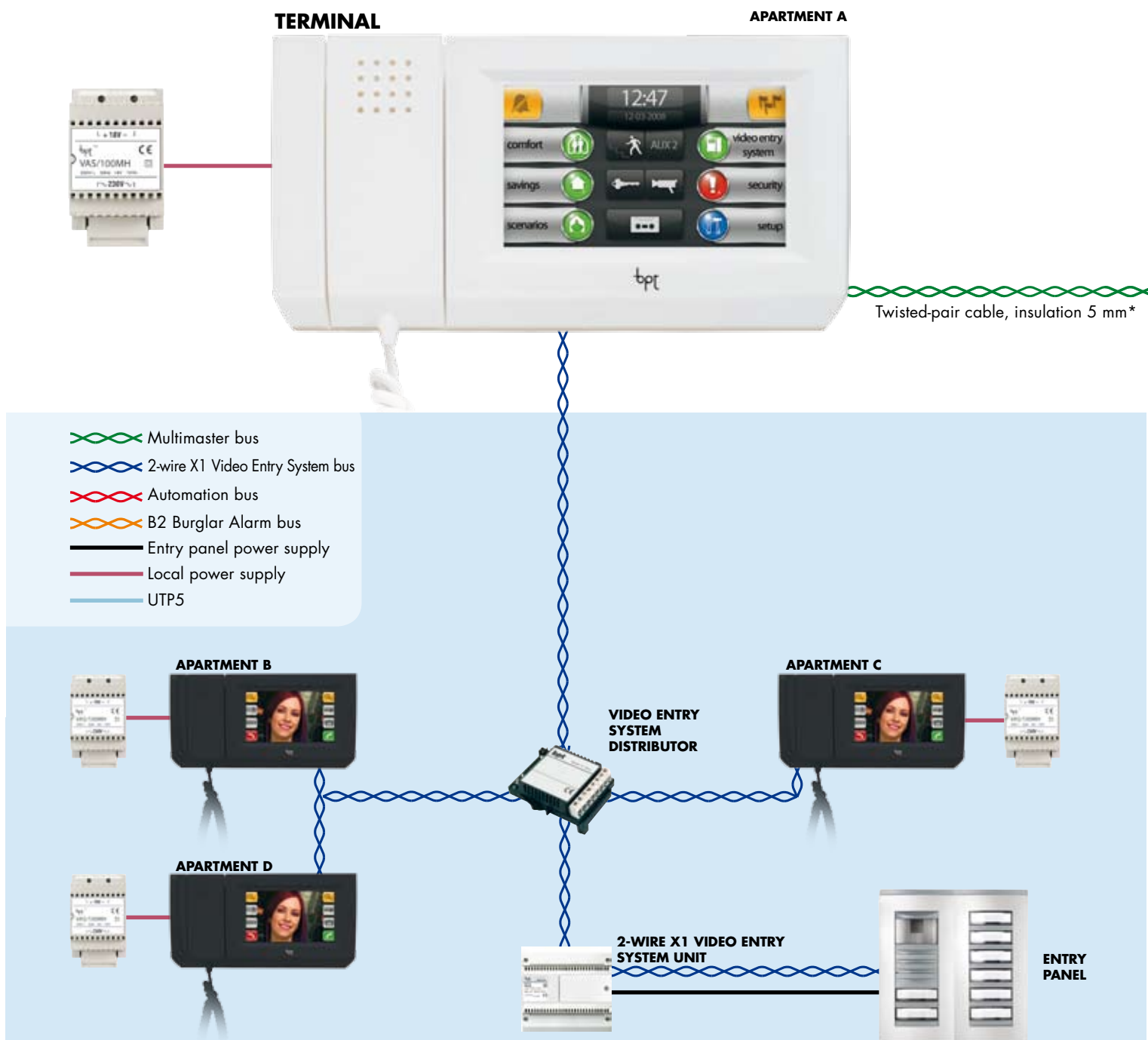
Video Entry System

Mitho can be connected directly to the 2-wire X1 video entry control or to the system 300, guaranteeing all the functions typical of a BPT video entry control appliance, including the possibility to have more than one intercommunicating monitor per apartment.

bpt

Home Automation

Mitho interfaces with the world of BPT home automation by means of the gateway. Thanks to a programmable logic system, comprised of a series of devices and a field bus, it is possible to manage the electric automation (scenario control, light control, door release control, irrigation, curtains, etc.) and heat regulation.

AUTOMATION POWER SUPPLY

HOME AUTOMATION NODES

Twisted-pair cable, insulation 5 mm*

* NOTE:
the cable used is the NH-C1D

GATEWAY

B2 System **brahms**

SERIAL INTERFACE

BURGLAR ALARM CONTROL UNIT

12:30
Fri 03 March
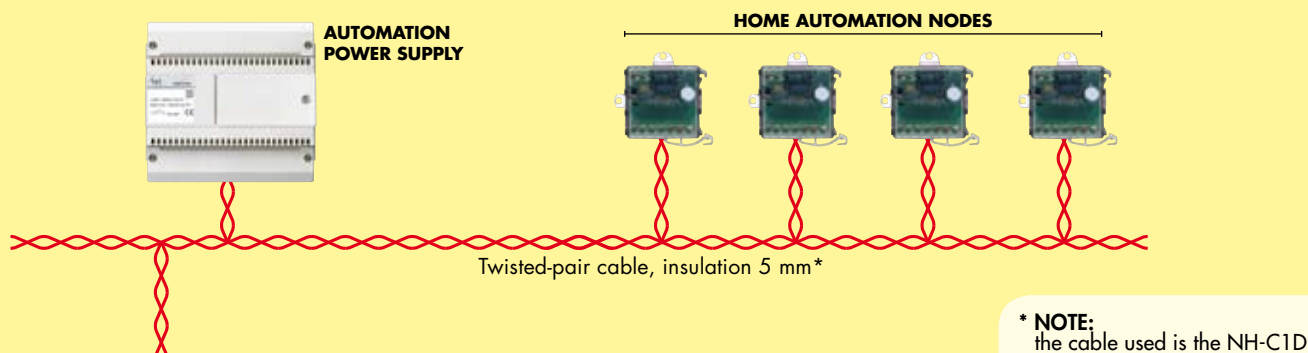
POWER SUPPLIES **SIREN** **SENSORS**
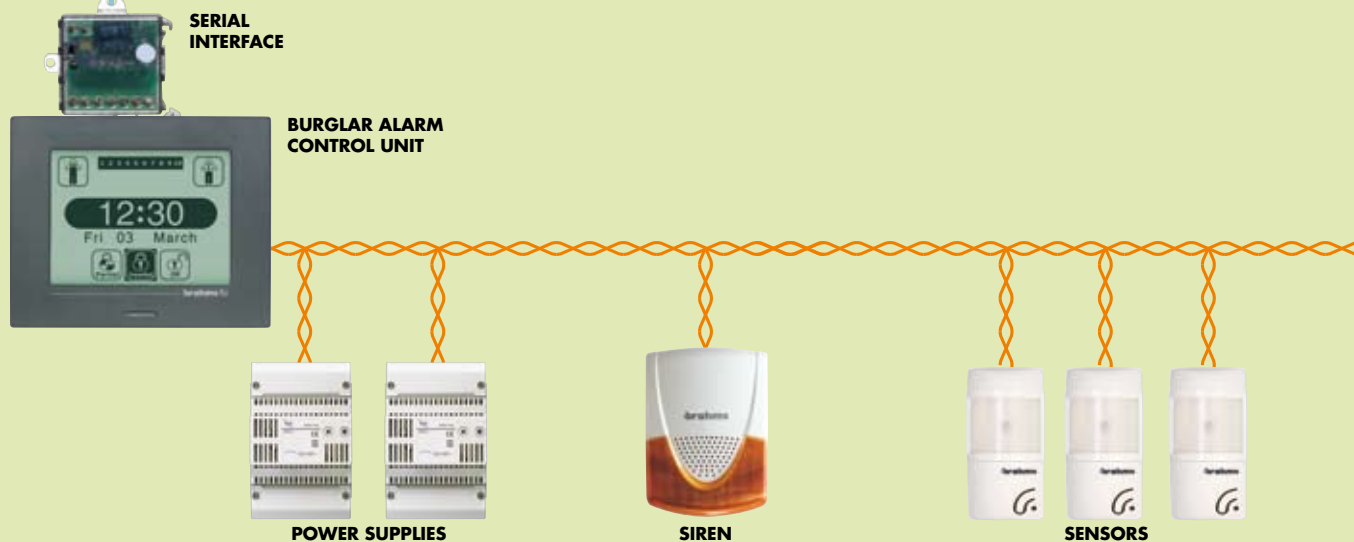
Burglar Alarm

As in the case of the electric automation, it is possible to interface with the burglar alarm system on the Brahms B2 2-wire bus. This makes it possible to manage the activation or total disablement of the alarm system and view the status of the various zones under control.

MITH✣+ PLUS
Basic system elements.

TERMINAL

Local power supply 12-24 V DC/12-16 V AC

GATEWAY

Local power supply 12-24 V DC

Installation

Local power supply (3 PIN modules)

max 1 monitor

VAS/100MH

max 1 monitor + 1 gateway

Local power supply (8 PIN modules)

max 3 monitors

VAS/100.30
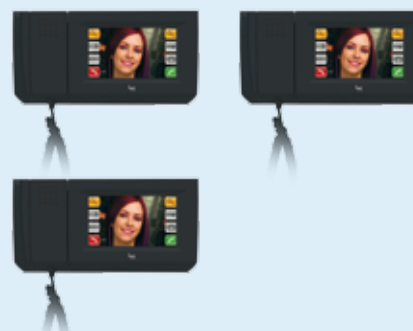
max 3 monitors + 1 gateway

bpt

12-24 V DC

Need to power the **Mitho terminals** and the **OH/GW gateways** locally

Terminals and gateway

The terminals and the gateways are connected by the dedicated **multimaster bus** for global commands (time, date and event synchronisation, etc.)

Possibility to connect a maximum of **10 devices** between Mitho and the gateway

The Mitho terminals and gateways can be connected to the same system in a **free layout**

TOTAL LENGTH OF SPREAD MULTIMASTER BUS CABLE (A+B+C+D+E+F+G+H+I) = **MAX 500 m**

MAXIMUN DISTANCE GATEWAY/TERMINAL = 100 m

TERMINAL

POWER SUPPLY

TERMINAL

GATEWAY

POWER SUPPLY

TERMINAL

POWER SUPPLY

D

H

A

C

G

E

F

B

I

GATEWAY

POWER SUPPLY

GATEWAY

POWER SUPPLY

Twisted-pair cable, insulation 5 mm*
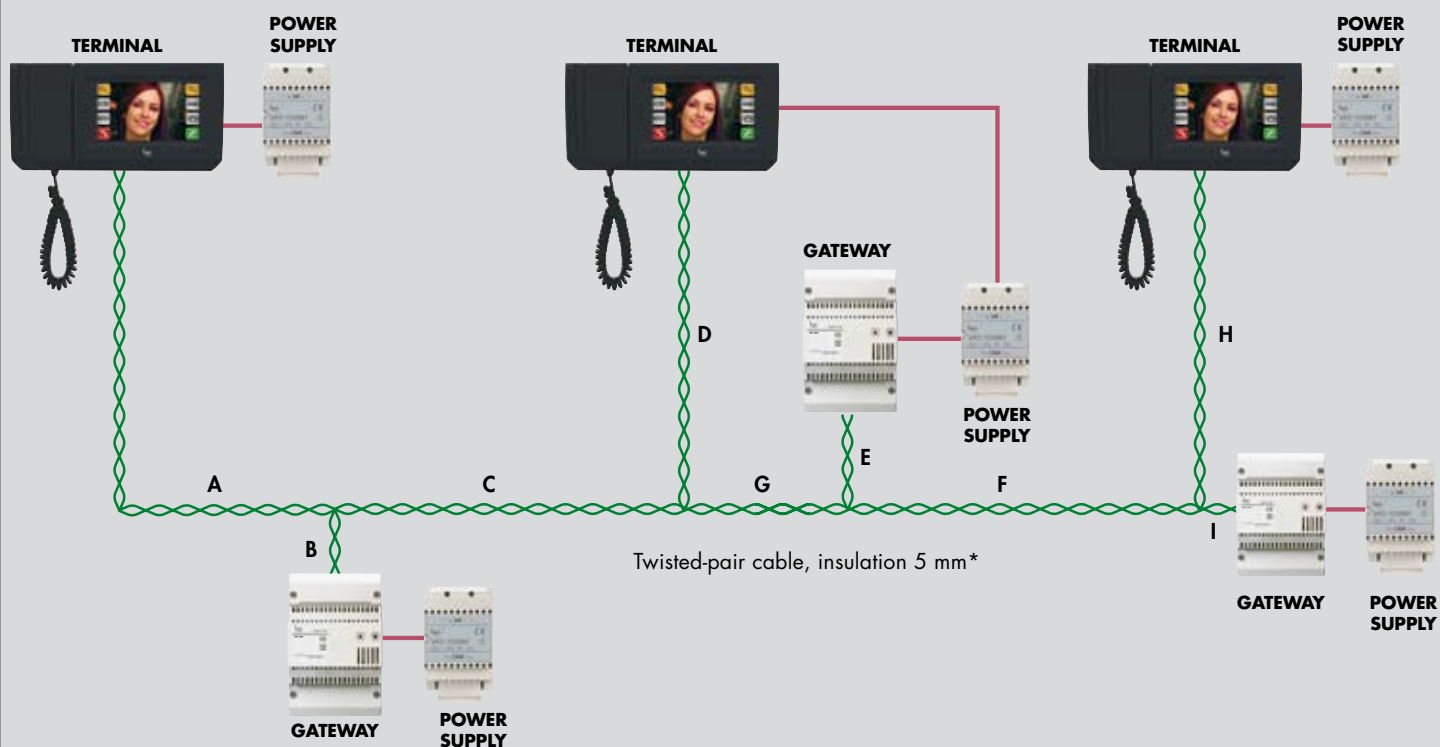
Local power supply

Multimaster bus

* NOTE:
the cable used is the NH-C1D

bpt

MITHO+ PLUS
Home automation infrastructure.

AUTOMATION
POWER SUPPLY

HOME
AUTOMATION
TERMINAL

HOME AUTOMATION NODES

TERMINAL

POWER SUPPLY

GATEWAY

Loft

AUTOMATION
POWER SUPPLY

HOME AUTOMATION NODES

TERMINAL

POWER SUPPLY

GATEWAY

First floor

AUTOMATION
POWER SUPPLY

HOME AUTOMATION NODES

TERMINAL

POWER SUPPLY

GATEWAY

Ground floor

——	Local power supply	✕✕✕	Multimaster bus
✕✕✕	2-wire X1 Video Entry System bus	✕✕✕	Automation bus

bpt

MITHO+PLUS
The BUS BPT system.

A programmable logic system for HOME AUTOMATION. The system is made up of a series of input/output devices that intercommunicate and are powered by a non-polarized twisted pair.

POWER SUPPLY AND DATA
on BPT LON protocol
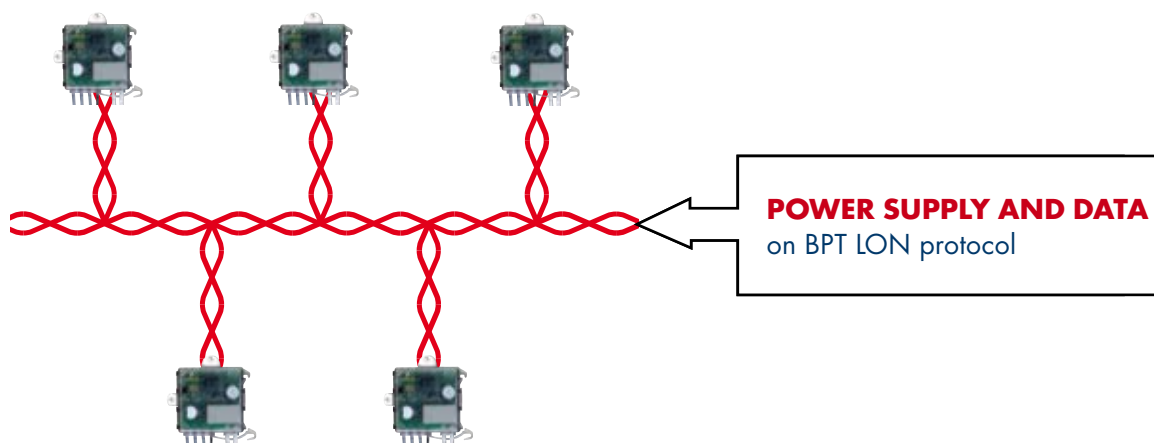
The input and/or output devices allow interface with traditional switches, buttons and sensors as well as with various electrical loads such as lights, motors, and solenoid valves.
The devices are available in the modular or miniaturized versions. The latter can be placed in recessed boxes of three or more modules, mounted directly on din rails in the electrical panel or directly on the wall in a suitable compartment.

OH/RI

OH/3RPI

OH/Z.02

OH/A.01
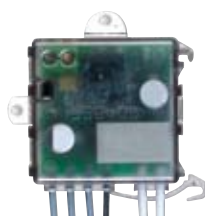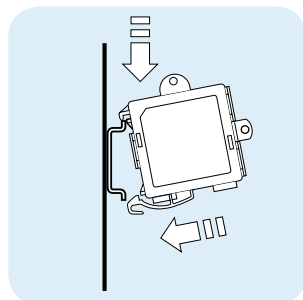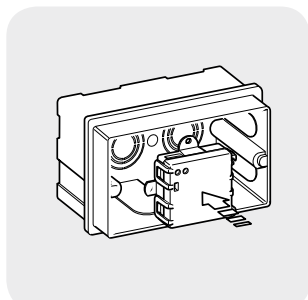
| Installation on DIN rail | Installation in recessed box | Wall installation | Installation in recessed box |
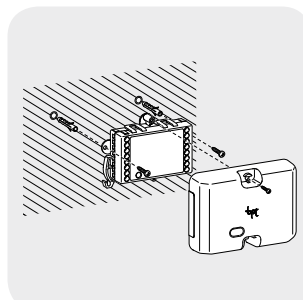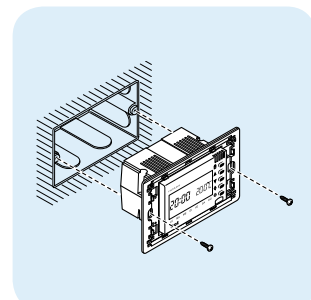
MITHO+ PLUS
Easy to install.

AUTOMATION POWER SOURCE	GSM COMMUNICATOR	1 RELAY 3 INPUTS MODULE	3 RELAYS 3 INPUTS MODULE	4 RELAYS 4 INPUTS MODULE	DIMMER CONTROL MODULE

OH/3RPI

OH/RI

2

2

OH/R.01

2

2 **NH-DIM**

DIMMER

OH/GSM

230 V AC

1 **OH/RI**

OH/3RPI

1

1 **OH/R.01**

1 **NH-DIM**

DIMMER

OH/A.01

BUS

OH/GW   **POWER SUPPLY**

TO THE TERMINAL

bpt
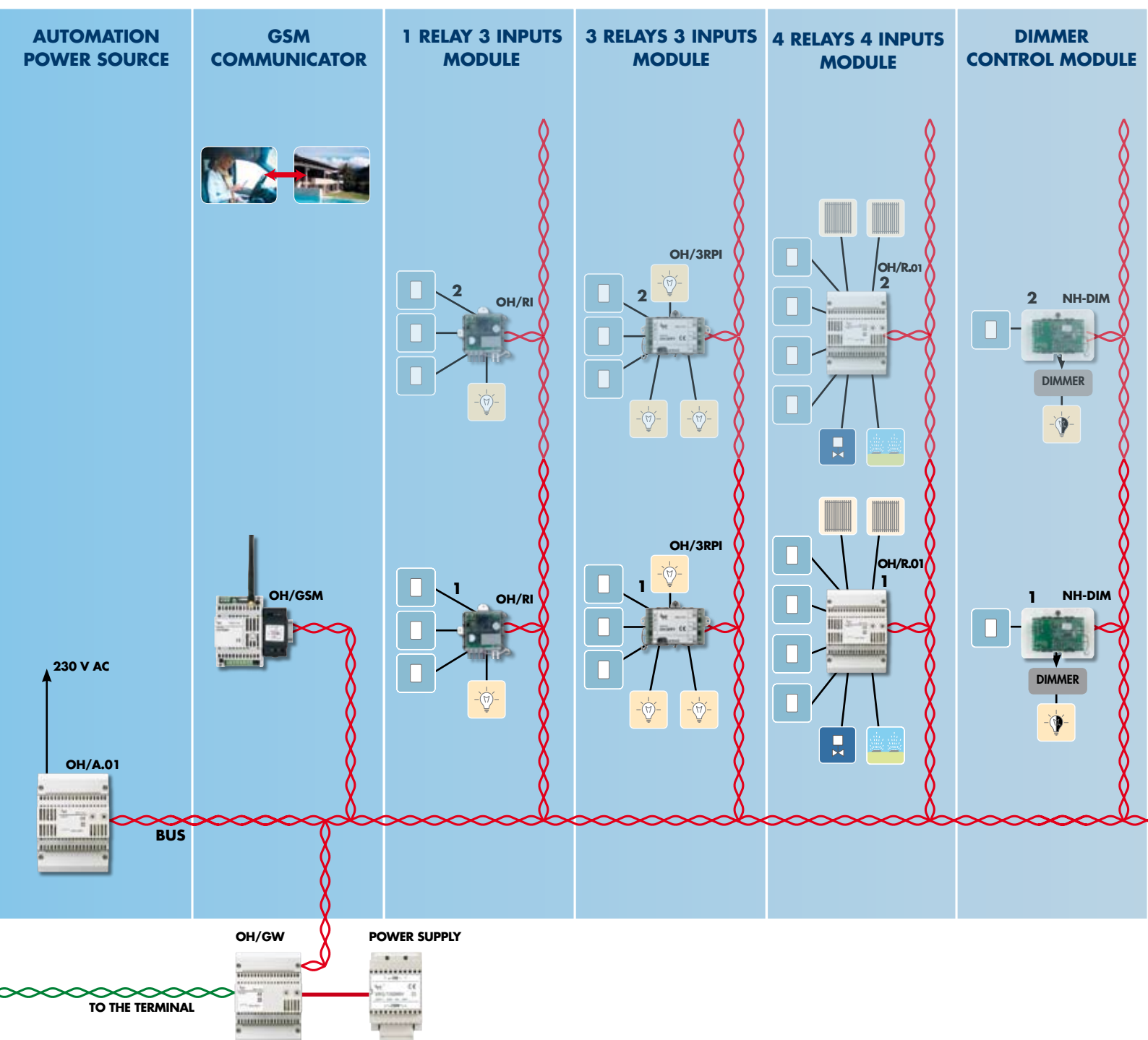
Great compatibility.

The miniaturised devices allow interface with traditional controls available within the home (switches, sensors, push buttons) and with activations (electrical motors, lights). No special equipment is thus required.

Fast installation.

The BPT bus was designed to optimise cable laying and to connect all devices by means of non-polarised simple twisted pair wiring, not restricted by dedicated paths.

6 INPUTS MODULE	1 RELAY MODULE + 2 RELAYS EXPANSION	MODULE AUTOMATION	TEMPERATURE ZONE MODULE	CONTROL TERMINAL (max n. 3)	BUS REPEATER

2 OH/6I

1 OH/6I

2 OH/2RP

2 OH/RP

1 OH/2RP

1 OH/RP

2 OH/MA

1 OH/MA

2 OH/Z.02

1 OH/Z.02

3 OH/T.01

2 OH/T.01

1 OH/T.01

NH-RBB
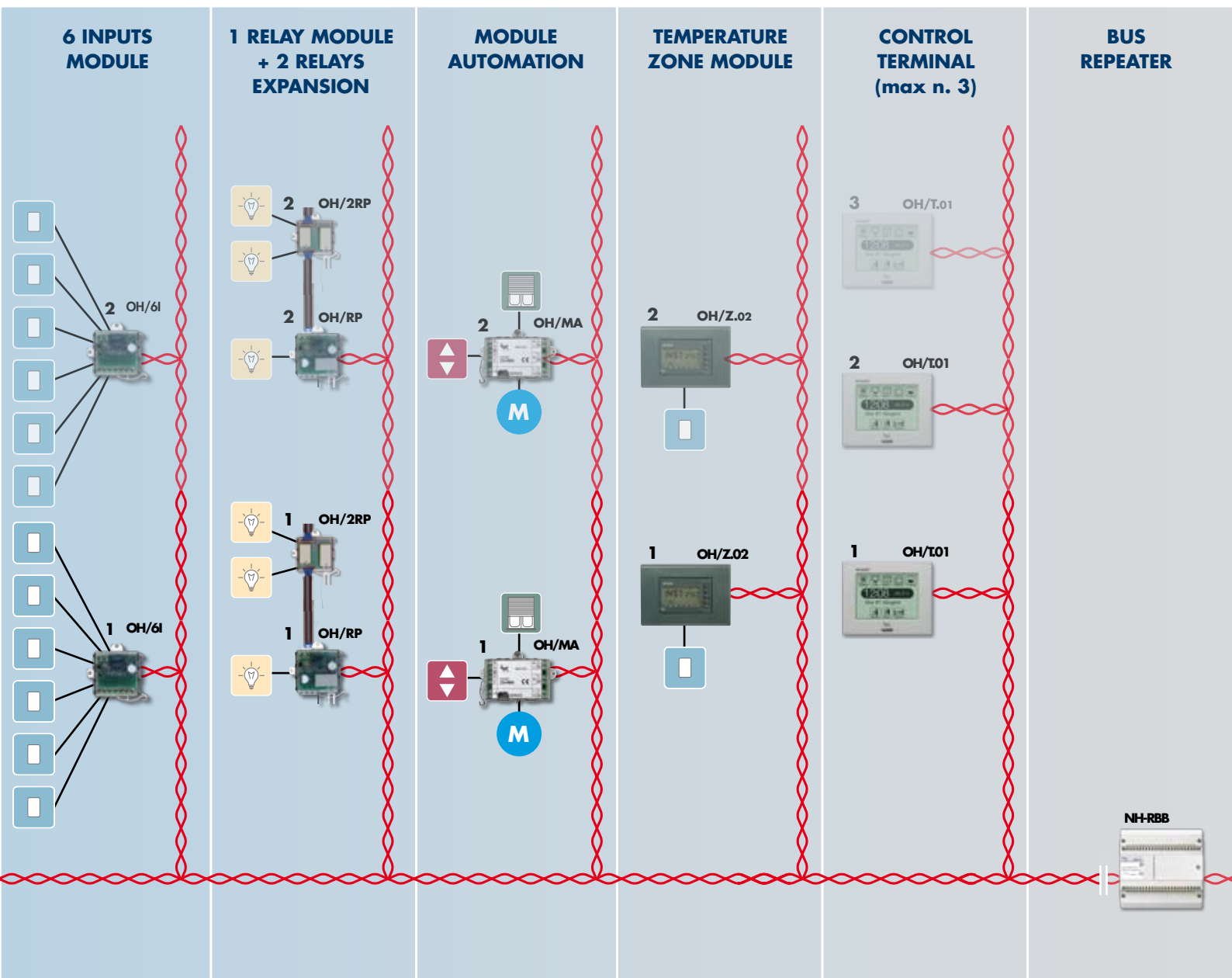
Automation bus

Multimaster bus

Local power supply

MITH◯+PLUS
Home automation.
Performance.

A total of **200** automation **modules**, can be divided into groups of a maximum of **79 modules** (39+ REPEATER BUS MODULE+40) per OH/GW gateway.

Up to **20 heating** zones for OH/GW gateway, either independent or centralised.

Management of user scenarios, created directly via the terminal, and installer scenarios, configured during programming.
Maximum number of implementations for **USER SCENARIO**: 30

Maximum distance of buttons, sensors, etc. from the input devices: **20 m**.
The distance is halved to **10 m** if the insulated input wires are flanked by mains conductors.

TOTAL LENGTH OF SPREAD AUTOMATION BUS CABLE

MAX 500 m (A+B+C+D+E+F+G+H+I+L) + BUS REPEATER MODULE +500 m (M+N+O+P+Q+R+S)

GATEWAY   POWER SUPPLY   HOME AUTOMATION NODES   HOME AUTOMATION NODES   ZONE MODULE

A   C   D   F   H   M   N   P   R
B   E   G   I   L   O   Q   S

100 m   100 m

AUTOMATION POWER SUPPLY   REPEATER BUS MODULE
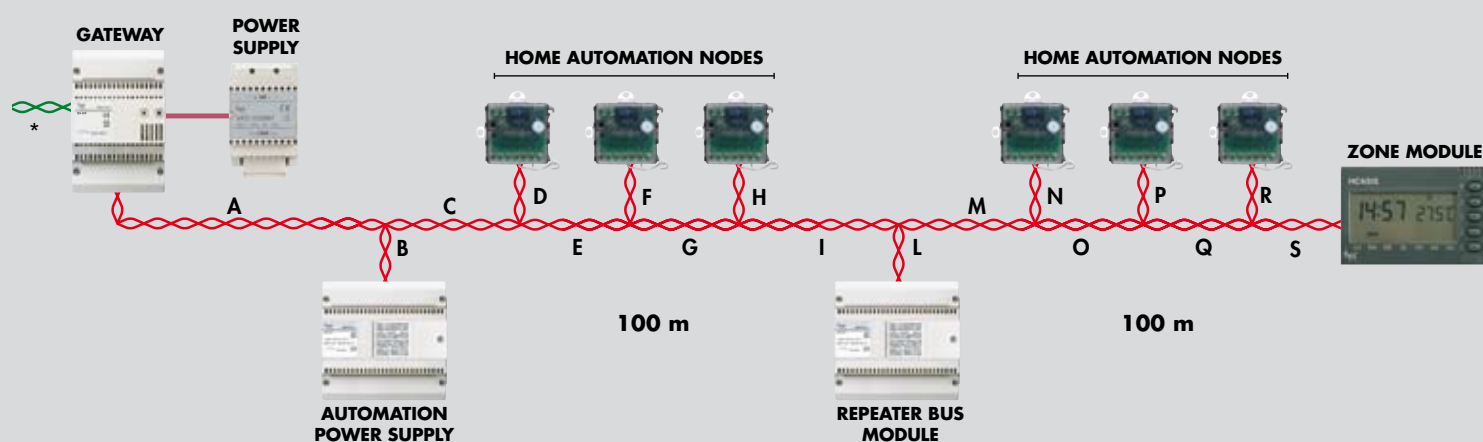
Multimaster bus
Automation bus
Local power supply

* **NOTE:**
  the cable used is the NH-C1D

bpt

MITHO+PLUS
Home automation.
System configuration.

**AUTOMATION
POWER SUPPLY**

HOME AUTOMATION NODES

Twisted-pair cable, insulation 5 mm*

TERMINAL

GATEWAY

**SOFTWARE
SCREENS**

**MITHO PC
PROGRAMMING
SOFTWARE**

〜〜〜 Multimaster bus
〜〜〜 Multimaster bus
——— USB cable

* NOTE:
the cable used is the NH-C1D

bpt
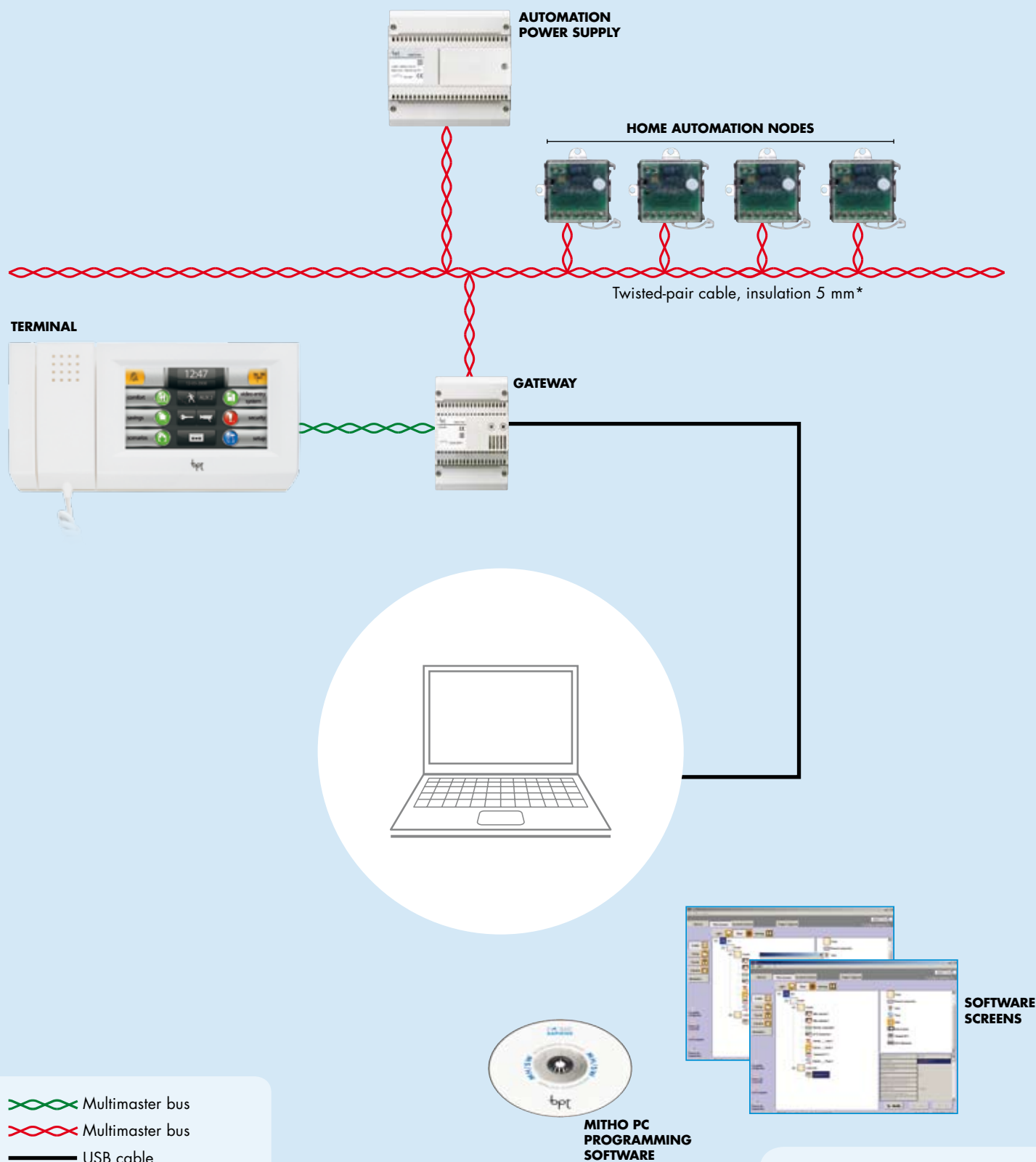
MITH⊙+PLUS
The system just as you want it.
Terminal settings.

It is possible to set and consult the following from the terminal:

time/date/alarm clock

9 polyphonic **melodies**

15 languages (Italian, English, French, Spanish, Portuguese, Hungarian, Slovakian, Russian, Greek, Dutch, German, Romanian, Polish, Slovenian, Turkish)

heat regulation programme settings (time, day, temperature levels, zone)

video regulation (colour saturation, contrast)

"user" scenarios and **"timed"** scenarios able to activate a series of events autonomously throughout the course of the day

irrigation parameters (start time, total irrigation period and anti-flooding time per individual valve)

seasonal percentage which automatically recalculates all the **watering times**, adjusting them to current weather conditions

load control on the basis of a consumption profile, in relation to the power used

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MITHO+PLUS
The system just as you want it.
Software.

Using PCMITHO software, with a tree programming structure, you can programme the electric automation system, calling up the physical status of the various environments and devices in order to simplify the activation process for the same.

From PC it is possible:

Scenario setting
"Standard" and "fast"

Associating inputs/outputs:
attribute the control logic, with which the inputs interact with the outputs (step-step, impulsive, direct, on, off, enablement), to the available automation modules

Define the system structure virtually from your PC
in "offline" mode. It only needs to be physically connected to the system when you decide to switch programming to the same, in area

MITHO+PLUS
Burglar alarm infrastructure.

SENSORS

TERMINAL

POWER SUPPLY

Loft

TERMINAL

POWER SUPPLY

SENSORS

First floor

**BURGLAR ALARM
CONTROL UNIT**

12:30
Fri 03 March

**SERIAL
INTERFACE**

SENSORS

SIREN

TERMINAL

POWER SUPPLY

GATEWAY

POWER SUPPLIES

Ground floor

————	Local power supply	⟩⟩⟩⟩	B2 Burglar Alarm bus
⟩⟩⟩⟩	2-wire X1 Video Entry System bus	⟩⟩⟩⟩	Multimaster bus
		————	UTP5

bpt
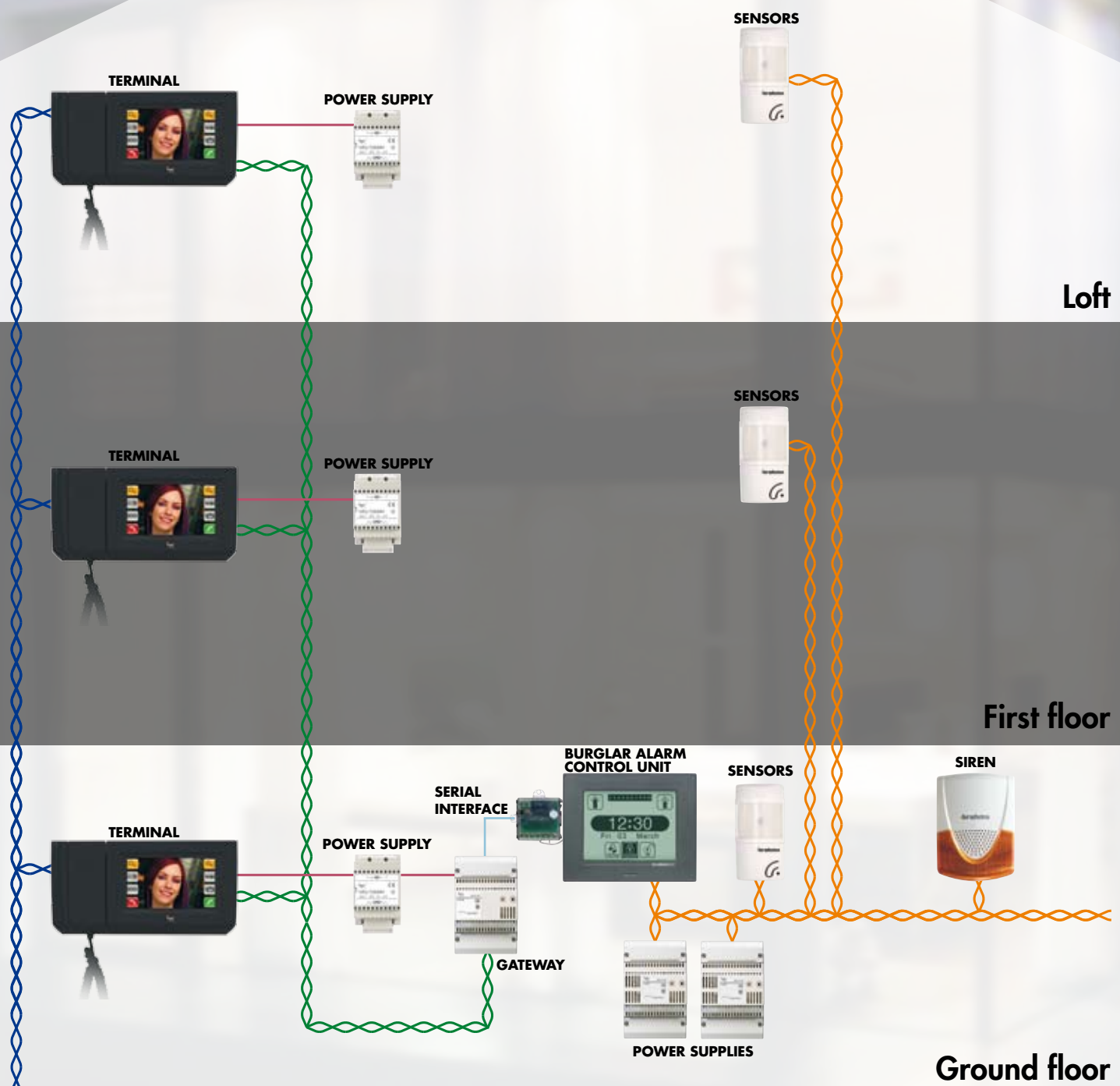
MITHO+ PLUS
BRAHMS bus system.

The system is characterised by the extremely easy wiring of all the elements making up the system, doing away with connection and direction errors. Input and output modules, infrared sensors, sirens, additional keypads and key plugs can be connected directly from the bus, with no constraints. In addition to transporting all the communication signals from the control unit to the peripherals and vice versa, the bus provides all the elements comprising the system and the power necessary for them to operate. It is also possible to connect other sensors, not specifically designed for the bus, by means of the specific interface module with power supply.

Legend:
- Bus Antintrusione B2
- Multimaster bus
- Power supply
- UTP5

TO THE MITHO TERMINAL

GATEWAY

MAGNETIC CONTACT

CABLE CONTACT

GLASS BREAKING SENSOR

GENERAL SENSOR

SERIAL INTERFACE

INFRARED SENSOR

MODULE 1 SENSOR INTERFACE INPUT WITH POWER SUPPLY

GSM COMMUNICATOR

BURGLAR ALARM CONTROL UNIT

4 INPUT MODULE

BURGLAR ALARM CONTROL UNIT

REPEATER MODULE

POWER SUPPLY

KEYPAD

INFRARED PLUG

2 OUTPUTS MODULE

REPEATER MODULE

SIREN

INFRARED KEY

*NOTE: for the characteristics and performance of the burglar alarm system, refer to the relative Brahms documents.

*consider a three - module built - in box when installing central unit with serial interface

MITH◇+PLUS System components.
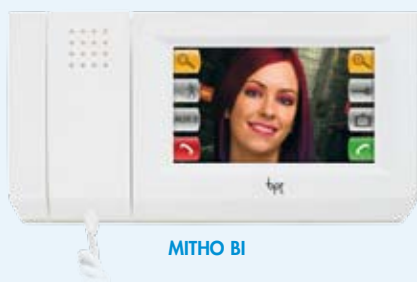
MITHO BI

MITHO NF

MITHO BI (Ice white colour)
Colour video entry control
PRODUCT CODE: 6211-7500

MITHO NF (Black fusion colour)
Colour video entry control
PRODUCT CODE: 6211-7600

Colour video entry control system, with 4.3" touch screen display in 16:9 format, hands-free audio functions and integrated receiver, Ice white and black Fusion colours
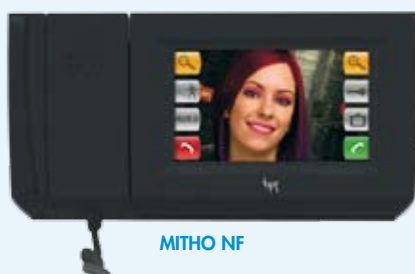
General characteristics
Display: 4,3" wide screen, 16:9 format, 480x272 pixel touch screen
Standard equipment: 1 video input nib - 1 wall fixture bracket
Power supply: 18÷24 V DC local (12÷16 V AC local)
Absorption: 0,75 A (1,5 A peak) 12 V AC, 0.5 A (1,1 A peak) 16 V AC, 0,31 A (0,81 A peak) 18 V DC - 0,23 A (0,58 A peak) 24 V DC
Dimensions: 203,5x108,4x30,8 mm

MITHO PLUS BI

MITHO PLUS NF

MITHO PLUS BI (Ice white colour)
Colour video entry control
PRODUCT CODE: 6720-1300

MITHO PLUS NF (Black fusion colour)
Colour video entry control
PRODUCT CODE: 6720-1400

Colour video entry system, with 4,3" touchscreen display in 16:9 format, hands-free audio and integrated receiver, Ice white and black Fusion colours

General characteristics
Display: 4,3" wide screen, 16:9 format, 480x272 pixel touch screen display
Standard equipment: 1 video input nib - 1 wall fixture bracket
Power supply: 18÷24 V DC local (12÷16 V AC local)
Absorption: 0,75 A (1,5 A peak) 12 V AC, 0,5 A (1,1 A peak) 16 V AC, 0,31 A (0,81 A peak) 18 V DC - 0,23 A (0,58 A peak) 24 V DC
Dimensions: 203,5x108,4x30,8 mm

bpt

VAS/100MH
Terminal power supplier/gateway
PRODUCT CODE: 6700-0700

General characteristics
Power supply: 230 V AC 50/60 Hz
Output voltage: 18 V DC
Maximum output current: 500 mA (1A peak)
Absorbed power: 10 VA
Operating temperature: from 0 °C to +35 °C
Dimension: low-profile 3-unit module for installation on DIN rail

OH/GW
MITHO PLUS gateway
PRODUCT CODE: 6710-0700

General characteristics
Line connection: electric automation bus outputs/B2 (C4) burglar alarm control unit connection, multimaster bus/USB port for PC connection
Power supply 12÷24 V DC
Absorption: 70 mA at 12 V DC, 50 mA at 18 V DC, 45 mA at 24 V DC
Operating temperature: 0-35 °C
Dimensions: low-profile 4-unit module for installation on DIN rail

OH/MPE6KW
Current measurement module
PRODUCT CODE: 6760-1200

Created on a 4-module DIN container, it makes it possible to measure the current instantly, using the serial connection of the power line.

General characteristics
Power supply: from bus line
Read power range max: 6 kW.
Line connection: passing on module (in-out)
Dimensions: low-profile 4-unit module for installation on DIN rail.

MITH⊙+PLUS Home automation system components.

OH/T.01
Control terminal
PRODUCT CODE: 6720-0110

Home automation control terminal, back-lit 3,5" LCD touch screen display, installation on wall.

General characteristics
Protection rating: IP30
Operating temperature: from 0° C to +35° C
Dimensions: 116x95x27 mm
Power supply: from bus line
Connections to system: non-polarised twisted pair
Thermal characteristics
Operating mode: Manual, Automatic, System Bypass
Selectable programs: Heating, Cooling
Anti-freeze temperature: +8° C
Field of temperature adjustment: from +2° C to +35° C

OH/A.01
Power supply
PRODUCT CODE: 6700-0110

This is always required for the system to work as it manages the power supply of all the devices in the system (control terminal, zone modules, relay modules, etc.) directly via bus (non-polarised twisted pair). It has 2 terminals for connection to an optional back-up battery.

General characteristics
Power supply: 230 V 50/60 Hz electronically protected
Electrical input: 10 VA
Emergency power supply: 24 V DC, AC 700 mA (from external devices)
Operating temperature: from 0° C to +35° C
Dimensions: low-profile 6-unit module for installation on DIN rail

OH/AS
Supplementary power supplier
PRODUCT CODE: 6700-0600

The emergency power supply cuts in automatically in the event of a black-out, preserving the power supply to all the devices in the system so that all the connected electrical applications return to their previous status when the power supply is restored. The power supply must be connected to 2 lead accumulators (OH/B065); the emergency power supply recharges them, guaranteeing efficiency and a long working life.

General characteristics
Power supply: 230 V 50/60 Hz electronically protected
Power absorption: 35 VA
Emergency power supply: 24 V DC, AC 500 mA (from OH/B065)
Operating temperature: from 0 °C to +35° C
Dimensions: low-profile 8-unit module for installation on DIN rail
**Connections to system:** non-polarised twisted pair

bpt

OH/B065
Rechargeable battery
PRODUCT CODE: 6790-0500

Connected to the supplementary power supplier, they preserve the mains bus power supply, for up to 10 hours.

General characteristics
Output voltage: 12 V DC
Output current: 6.5 A/h
Dimensions: 151x101x65 mm

NH-RBB
BUS repeater
PRODUCT CODE: 6700-0400

The data line repeater connects to the BPT home automation BUS and is used when the maximum distance between devices and power supplier is exceeded, when the maximum amount of cable laid is exceeded or when the maximum number of devices for the system is exceeded. The unit is set up for connection to an emergency power supply. (12 V DC, AC).

General characteristics
Power supply: 230V 50/60 Hz electronically protected
Electrical input: 24 VA
Operating temperature: from 0° C to +35° C
Dimensions: low-profile 8-unit module for installation on DIN rail
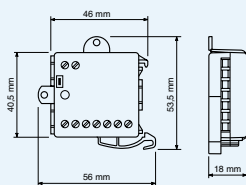
OH/6I
6 inputs module
PRODUCT CODE: 6760-0200

Realised on a miniaturised container, it allows connection of 6 inputs from control devices (push buttons, sensors, etc.).

General characteristics
Power supply: from bus line
Type of contact input: NO and NC, without cross passage of current or voltage at ends
Operating temperature: from 0° C to +35° C
Dimensions: low-profile 1-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

| | ON/OFF | | Station barometer | | Anemometer | | Technical alarm |
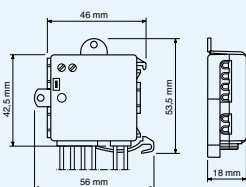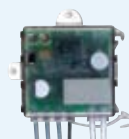
OH/RI
3 inputs/1 relay module
PRODUCT CODE: 6760-0300

Realised on a miniaturised container, it allows connection of 3 inputs from control devices (push buttons, sensors, etc.) and 1 output for an electrical load. This is particularly recommended for the activation of applications that require on-site location.

General characteristics
Power supply: from bus line
Type of contact input: NO and NC, without cross passage of current or voltage at ends
No. of relays: 1
Type of relay: 250 V max, 5 A max with resistive load (2 A max with inductive load) - NO contact
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 1-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

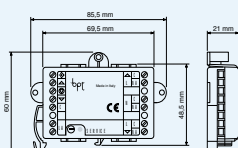| | ON/OFF | | Station barometer | | Anemometer | | Technical alarm |
| | Irrigation | | Boiler | | Solenoid valve | | Lighting |

OH/3RPI
3 inputs/3 relays module
PRODUCT CODE: 6760-0700

Realised on a miniaturised container, it allows connection of 3 inputs from control devices (push buttons, sensors, etc.) and 3 outputs for electrical loads.

General characteristics
Power supply: from bus line
Type of contact input: NO and NC, without cross passage of current or voltage at ends
No. of relays: 3
Type of relay: 250 V max, 16 A max with resistive load (5 A max with inductive load) - NO contact
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 1-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

ON/OFF	Station barometer	Anemometer	Technical alarm
Irrigation	Boiler	Solenoid valve	Lighting

85,5 mm
69,5 mm
21 mm
60
48,5 mm

OH/R.01
4 inputs/4 relays module
PRODUCT CODE: 6760-0110

Allows connection of 4 inputs from control devices (push buttons, sensors, etc.) and 4 outputs for as many electrical loads. The 4 relays used for the outputs are particularly recommended for electrical uses that require switched contacts (e.g. zone valves for heating management systems).

General characteristics
Power supply: from bus line
Type of contact input: NO and NC, without cross passage of current or voltage at ends
No. of relays: 4
Type of relay: 250 V max, 5 A max with resistive load (2 A max with inductive load) switched contacts
Type of relay action: 1 B-U
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 6-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

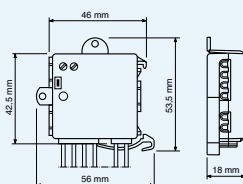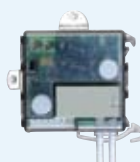|		
ON/OFF	Station barometer	Anemometer	Technical alarm
Irrigation	Boiler	Solenoid valve	Lighting

OH/RP
1 relay module
PRODUCT CODE: 6760-0400

Realised on miniaturised container, with one output for electrical load. Particolarly recommended for activation of loads with high current inputs.

General characteristics
Power supply: from bus line
No. of relays: 1
Type of relay: 250 V max, 16 A max with resistive load (5 A max with inductive load) - NO contact
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 1-unit module for installation on DIN rail
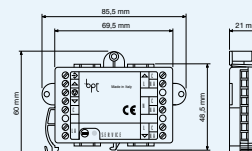**Connections to system:** non-polarised twisted pair

Irrigation	Boiler	Solenoid valve	Lighting

46 mm
42,5 mm
53,5 mm
56 mm
18 mm

bpt
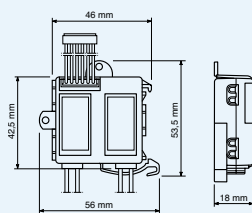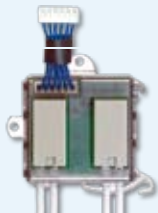
OH/2RP
2 relays expansion module
PRODUCT CODE: 6760-0500

Realised on a miniaturised container, with 2 outputs for the same number of electrical loads. Particularly recommended for activation of loads with high current inputs. It must always be used in conjunction with the OH/RP module, for which it is an expansion. It is equipped with a wire with a snap-in connector for connection to the OH/RP module.

General characteristics
Power supply: from OH/RP
No. of relays: 2
Type of relay: 250 V max, 16 A max with resistive load (5 A max with inductive load) - NO contact
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 1-unit module for installation on DIN rail
Connections to system: directly to OH/RP module with wire with snap-in connector

Irrigation   Boiler   Solenoid valve   Lighting

46 mm
42,5 mm
53,5 mm
56 mm
18 mm
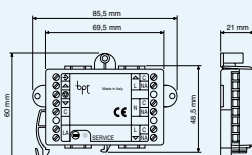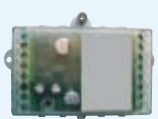
OH/MA
Automation module
PRODUCT CODE: 6760-0600

Realised on a miniaturised container, it includes 3 power relays for management of automations (awnings, shutters, etc.) via related local control buttons. It allows control by means of three local inputs (up, down, stop) with human presence function (the shutter raises or lowers when the up or down buttons are pressed and stops when they are released) and with the "window" function (pressing the up or down keys for less than a second allows the shutter to be raised or lowered for an adjustable time with a default of 90 seconds).

General characteristics
Power supply: from bus line
Type of contact input: NO and NC, without cross passage of current or voltage at ends
No. of relays: 3
Type of relay: 250 V max, 16 A max with resistive load (5 A max with inductive load) - NO contact
Operating temperature: from 0° C to +35° C
**Dimensions:** low-profile 1-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

Automation of openings

85,5 mm
69,5 mm
60 mm
48,5 mm
21 mm

NH-DIM
Dimmer control module
PRODUCT CODE: 6760-0800

The module, equipped with 1 relay and a 1÷10 V DC output, lets you control a dimmer with a 1÷10 V DC input for incandescent lamps.

General characteristics
Power supply: from bus line
No. of relays: 1
Type of relay: 16 A for DIMMER or resistive loads, 5 A for inductive loads- NO contact
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 1-unit module for installation on DIN rail

DIMMER 1÷10 V

Light dimming

85,5 mm
69,5 mm
60 mm
48,5 mm
21 mm
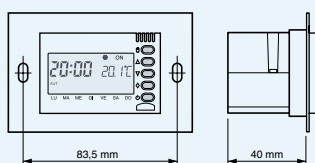
OH/Z.02 BB

OH/Z.02 BB
Temperature control zone module
PRODUCT CODE: 6720-1210

OH/Z.02 GR

OH/Z.02 GR
Temperature control zone module
PRODUCT CODE: 6720-0230

OH/Z.02 SV

OH/Z.02 SV
Temperature control zone module
PRODUCT CODE: 6720-1500

Recessed module, colour grey, white or silver
BPT plate included in the packaging. It allows temperature control for the zone where it is located. From the zone module you can select the operating mode (automatic/manual), modify the room temperature (in manual operation) by a maximum of +/- 2° C or override the temperature control for the related zone.
The module is to be installed recessed in a 3-module box.

83,5 mm   40 mm

General characteristics
Display: LCD graphic
Protection rating: IP30
Operating temperature: from 0° C to +40° C
Dimensions: standard 3-module recessed box
Power supply: from bus line
Operating mode: Manual, Automatic, Zone Bypass.
Anti-freeze temperature: +8° C
Type of input contacts: 5 V 1 mA
Connections to system: non-polarised twisted pair

Heat regulation

OH/GSM
GSM communicator
PRODUCT CODE: 6710-0600

4 DIN   **2 DIN**

It can control up to 16 scenarios and 20 heating zones, as well as receive alerts for up to 6 technical alarms. The communicator enables remote control and alert functions by sending and receiving texts to and from telephone numbers (up to 10) saved in the memory. In order to operate, the OH/GSM communicator must be equipped with a SIMcard, not included in the package. By sending a specific message, you can find out how much credit is left in the SIM. The OH/GSM can also be added after the installation of the system and can be used in "mixed systems" in which it also communicates with the B2 burglar alarm systems (see diagram below). The transformer is provided with the communicator (see diagram below). The power supply transformer is provided with the communicator. The OH/GSM module offers the possibility to connect a 12 V buffer battery OH/B008 (code 6790-0600), not included in the package, which allows text messages to be sent in the event of a power cut.

General characteristics
Power supply: from the 15 V AC or 12 V DC supply line
Emergency power supply: 15 V DC , 800 mA (from OH/B008)
Operating temperature: from 0 °C to +40 °C
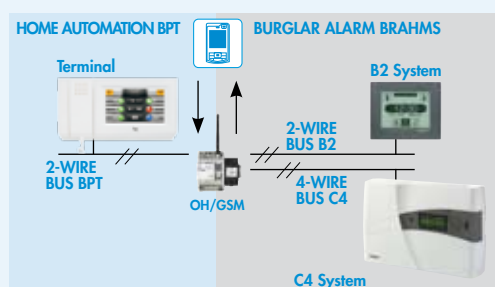**Dimensions:** low-profile 4-unit module for installation on DIN rail
Dimensions: low-profile 2-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair
Power supply: from the 12 V DC supply line
Type of GSM module: GSM/GPRS Modem DUAL BAND 900/1800 MHz
Antenna: jointed with clamping screw fastening and connection

HOME AUTOMATION BPT   BURGLAR ALARM BRAHMS

Terminal   B2 System

2-WIRE BUS B2

2-WIRE BUS BPT   4-WIRE BUS C4

OH/GSM

C4 System

bpt

OH/ANT
Optional antenna for OH/GSM
PRODUCT CODE: 6790-0700

Optional antenna that can be used in place of the antenna supplied with the communicator. Its use is recommended if there is poor reception/transmission of the signal with respect to the installation point or if the equipment is installed in metal cabinets.

General characteristics
Length Wire: 3 m
The antenna is equipped with two-sided adhesive for fastening

OH/B008
Rechargeable battery for OH/GSM
PRODUCT CODE: 6790-0600

When connected to the GSM communicator, it makes it possible to send system status messages even in the event of a mains black-out.

General characteristics
Output voltage: 12 V DC
Output current: 0.8 A/h
Dimensions: 96x62x25 mm

NH-C1D
BPT bus cable
PRODUCT CODE: 6790-0100

Twisted-pair cable, 750 V isolation cable, This is used for the connection of all input/output devices that make up the system.

General characteristics
Diametro esterno: External diameter: 5 mm
Type of sheath: PVC
Conductor type: twisted-pair
Conductor section: 0.38 mm
Conductor resistance: 51 Ohms/km
Conductor nominal impedance: 100 Ohms
Conductor capacity: 66 pF/m
Insulation voltage: 300/300 V
Package: 100 m skein
Reference standards: CEI 20-11 - CEI 20-35 - CEI 20-20 - CEI 20-30

MH/SW
Home automation system software configuration
PRODUCT CODE: 6790-0900

General characteristics
Minimum system requirements: PC Pentium III 700 MHz or higher, 128 MB RAM, 40 MB of space on HD, XGA video, Windows 98SE/ME/2000/XP/Vista operating system
**Package:** software CD, USB cable
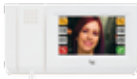
MITHO+PLUS System components.

HOME AUTOMATION

SYSTEM COMPONENTS

	Item	Code	Description
	MITHO BI	6211-7500	Colour video entry control system, with 4.3" touch screen display in 16:9 format, hands-free audio functions and integrated receiver, Ice white colour.
	MITHO NF	6211-7600	Colour video entry control system, with 4.3" touch screen display in 16:9 format, hands-free audio functions and integrated receiver, black fusion colour.
	MITHO PLUS BI	6720-1300	Colour video entry system, with 4,3" touchscreen display in 16:9 format, hands-free audio and integrated receiver, Ice white colour.
	MITHO PLUS NF	6720-1400	Colour video entry system, with 4,3" touchscreen display in 16:9 format, hands-free audio and integrated receiver, black Fusion colour.
	VAS/100MH	6700-0700	Local terminal power supplier/gateway.
	OH/GW	6710-0700	MITHO PLUS gateway.
	OH/MPE6KW	6760-1200	Current measurement module max 6 kw.

HOME AUTOMATION SYSTEM COMPONENTS

	Item	Code	Description
	OH/T.01	6720-0110	Control terminal.
	OH/A.01	6700-0110	Power supply.
	OH/AS	6700-0600	Supplementary power supplier.
	OH/B065	6790-0500	Rechargeable battery.
	NH-RBB	6700-0400	BUS repeater.
	OH/6I	6760-0200	6 inputs module.
	OH/RI	6760-0300	3 inputs/1 relay module.
	OH/3RPI	6760-0700	3 inputs/3 relays module.
	OH/R.01	6760-0110	4 inputs/4 relays module.
	OH/RP	6760-0400	1 relay module.
	OH/2RP	6760-0500	2 relays expansion module.

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HOME AUTOMATION

	Item	Code	Description
	OH/MA	**6760-0600**	Automation module.
	NH-DIM	**6760-0800**	Dimmer control module.
	OH/Z.02 BB	**6720-1210**	Recessed module for control of temperature by zone, 3 DIN modules dimension, white colour. BPT plate, white colour, included in the packaging.
	OH/Z.02 GR	**6720-0230**	Recessed module for control of temperature by zone, 3 DIN modules dimension, anthracite grey colour. BPT plate, anthracite grey colour, included in the packaging.
	OH/Z.02 SV	**6720-1500**	Recessed module for control of temperature by zone, 3 DIN modules dimension, silver colour. BPT plate, silver colour, included in the packaging.
	OH/GSM	**6710-0600**	GSM communicator 230 V 50/60 Hz.
	OH/ANT	**6790-0700**	Optional antenna for OH/GSM.
	OH/B008	**6790-0600**	Rechargeable battery for OH/GSM.
	NH-C1D	**6790-0100**	BPT bus cable, Twisted-pair cable, 750 V isolation cable C.
	MH/SW	**6790-0900**	Electric automation system software configuration.

BURGLAR ALARM   brahms

FOR THE CODES RELATIVE TO THE BURGLAR ALARM SECTION, CONSULT WWW.BRAHMSELETRONICA.IT OR THE BRAHMS GENERAL CATALOGUE.

VIDEO ENTRY SYSTEM   X1

FOR THE CODES RELATIVE TO THE VIDEO ENTRY SYSTEM SECTION, CONSULT WWW.BPT.IT OR THE BPT GENERAL CATALOGUE.

The equipment shown in this catalogue are all for civilian use. On request **Bpt** can supply equipment suitable for mains and frequency differences to those listed in this catalogue.
Bpt reserves the rights to change the specifications of the equipment without notice.

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