



home automation

HOASIS+^{PLUS}

Home automation for everyone



HOME
SAPIENS

The easiest way to discover home automation carries the BPT brand.



The hustle and bustle of everyday life and the increasing amounts of time spent outside the home often lead to a call for **more convenience and security**, and for **user-friendly** technologies that can **make life easier**. And so we have a new concept of comfort: not just physical, but emotional as well.

HOMESAPIENS is the **answer** to these **needs**.

With HOMESAPIENS, of which **Hoasis Plus** is the first link in the chain, the design and management of a truly “smart” building is a reality that is within everyone’s reach.

Ease of use and **attention to detail** have always been part of **BPT’s guarantee**, ready to meet these new challenges that today’s lifestyle demands.

HOME
SAPIENS

Easy **home automation** where the future is now.



lighting

water leak check

gas leak check

temperature control

gas leak check

awning automation

lighting

temperature control

gate automa

water leak check

shutter automation

irrigation

irrigation

water leak check

gas leak check

lighting

awning automation

Everything is under control with

HASIS+^{PLUS}



temperature control

gas leak check

awning automation

water leak check

awning automation

lighting

temperature control

lighting

awning automation

temperature control

shutter automation

irrigation

gate automation

shutter automation

HOASIS PLUS: all you have to do is lightly touch the control terminal, **touch screen**, to access the services required. A series of **miniaturised interface devices** placed in the home in recessed boxes or in DIN panels are able to manage the most common commands and the traditional activations. This includes **lighting system control**, awning and shutter automation, **temperature control** in all zones, **activation of irrigation**, and checks for water and gas leaks, etc. **Functions can be programmed directly from the terminal or a PC**, without having to handle wiring and without configuration jumpers. Never before has the dream of a home that responds to commands been so real: **a truly interactive home.**

From 64 to 255 in 5sec



64

Programming via terminal

The standard terminal allows you to manage up to **64** activations and up to **71** control inputs, divided between the heating menu and home automation menu. In this case, the various devices can be programmed from the terminal using icon menus that make everything easy and intuitive. For each electrical activation (relay) you can set the operating mode (on/off, step-by-step, dimmer, etc.) so that you can interface not only with the normal electrical loads but also with the most common automation systems. **16** timer controls and **3** scenarios complete the available functions. This is the basic solution, to be used where automation needs require a simple, ready-for-use product, with a minimum level of customisation.



The system is based on a touch screen terminal that lets you programme, monitor and activate all system components and thus all connected electrical activations, from normal electrical loads to the most common automation systems. Without modifying wiring and without having to touch what has previously been undertaken, you can obtain an open, flexible system that is capable of expanding functions and performance over time. Once installed, the system is easy to monitor and offers remote management. Remote management enables the user to check the system status at any time and intervene in the case of anomalies.

POWER

255



Programming via PC

When you use the programming software, you obtain a substantial increase in system performance. In fact, you can manage up to **255** activations and **255** control inputs. In this case, to facilitate use of the terminal, all available functions can be grouped into various menus: heating zone menu, lighting menu, automation menu, timer menu and scenario menu. Up to **3** terminals can be installed in the same system. You can customise the functions which are to be used for each terminal using the software. In the various menus, you can manage up to **100** lights, **40** automations (awnings, shutters, etc.), **20** heating zones, **40** timers and up to **16** scenarios.



HOASIS+^{PLUS} Comparing performance

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.

Programming via terminal

- Up to **64** electrical activations
- Up to **71** controls
- Up to **8** heating zones
- Up to **16** timer controls
- Up to **3** scenarios
- Up to **80** devices
- 1** terminal per system
- Up to **200** m from terminal to devices
- Up to a total of **1 000** m of total cable laid



A touch of the finger is all it takes. The control terminal places control of up to 255 electrical activations at your fingertips. At any time you can activate irrigation, switch lights on or off, adjust the temperature and a whole lot more.

Hoasis Plus complements everything. Automatically.

You can set the control logic for each of the 255 activations. This provides complete adaptability with the most commonly used automation systems and with the main lighting controls.



Programming via PC

Up to **255** electrical activations

Up to **255** controls

Up to **20** heating zones

Up to **40** timer controls

Up to **16** scenarios

Up to **80** devices

3 Terminals per system

Up to **200** m from terminal to devices

Up to a total of **500** m of total cable laid

Up to **40** automations

Up to **100** lights.

Safety guaranteed, comfort assured

Hoasis Plus lights up the garden.

You can control any kind of lighting and set its duration. Perfect for creating lighting scenarios.



Hoasis Plus activates the irrigation system.

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



Hoasis Plus welcomes you with programmed scenarios.

All the activations that are handled individually on a daily basis when you enter or leave the home can easily be activated simultaneously with a touch of the finger.





Hoasis Plus controls the temperature throughout the home.

By taking advantage of heating zones, you can check the temperature in any one of them and modify it as needed.



Hoasis Plus means that you can be at home even when you are elsewhere

With the GSM telephone module, it is possible to receive information on the system operating mode status at all times (technical alarm status, room temperature, activated settings, remaining SIM credit) directly on your mobile phone. You can also use your mobile to activate home automation functions such as the activation of pre-set settings, or to adjust the heating system, switching it on or off or modifying the set temperature, just as if you were at home.



Hoasis Plus opens and closes awnings and shutters.

You can programme activation times in sequence, staggering the activation times of automation devices so as to avoid overloading the electrical system. Or you can stop them at the desired position by means of the available timer functions.

OH/T.01

Control terminal

PRODUCT CODE: 6720-0110

Installed inside the home, and wired with non-polarised twisted pair, it allows programming, monitoring and activation of all system components, and therefore of all connected electrical activations. For each electrical activation (relay) you can set the operating mode (ON/OFF, step-by-step, dimmer, etc.) so that you can interface not only with the normal electrical loads but also with the most common automation systems.

The terminal has a default set-up that allows you to manage up to 64 activations and up to 71 control inputs, divided between the heating menu and home automation menu. In this case, the various devices can be programmed directly from the terminal.

The graphic interface of the terminal can be completely modified through the programming software, and functional performances can also be increased to up to 255 activations and up to 255 control inputs.

In this case, to facilitate use of the terminal, all available functions can be grouped into various menus: heating zone menu, lighting menu, automation menu, timer menu and scenario menu.



General characteristics

Display: Back-lit LCD touch screen display.
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

No. of heating zones: up to 20
Operating mode: Manual, Automatic, System Bypass.
Selectable programs: Heating, Cooling.
Anti-freeze temperature: +8° C.
Field of temperature adjustment: from +2 to +35° C.

Home automation zone characteristics

No. of home automation zones: up to 255
No. of controls: up to 255
Control functions: direct, impulse, on/off, step-by-step, house, dimmer
Timer controls: up to 40 programmable
No. of scenarios: 16 programmable
No. of activatable lights: up to 100
No. of activatable openings: up to 40

OH/GSM

GSM telephone module

PRODUCT CODE: 6710-0600

With the GSM telephone module, it is possible to receive information on the system operating mode status at all times (technical alarm status, room temperature, activated settings) directly on your mobile phone, or activate 64 scenarios via text message, such as settings and the heating system (on, off, automatic and set temperature adjustment).

The GSM telephone module can be programmed to send 2 messages per day, indicating the system status.

It can control up to 16 settings, 20 heat zones and 6 technical alarms.

The same information can also be sent by text message to up to 10 different telephone numbers.

AVAILABILITY 2nd HALF 2007



General characteristics

Power supply: 12 V dc/ca 300 mA (from external power supplier)
Emergency power supply: 12 V dc, 800 mA (from OH/B008)
Operating temperature: from 0° C to +35° C
Dimensions: low-profile 4-unit module for installation on DIN rail
Connections to system: non-polarised twisted pair

OH/B008

Rechargeable battery for GSM telephone module

PRODUCT CODE: 6790-0600

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

AVAILABILITY 2nd HALF 2007

General characteristics

Output voltage: 12 Vdc

Output current: 0.8 A/h

Dimensions: 96x62x25 mm

OH/A.01

Power supplier

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: 230V 50/60 Hz electronically protected

Electrical input: 10 VA.

Emergency power supply: 24 V DC, AC 500 mA (from external devices).

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

OH/AS

Emergency power supplier

PRODUCT CODE: 6700-0600

The Hoasis Plus emergency power supplier 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 supplier must be connected to 2 lead accumulators (OH/B065); the emergency power supplier recharges them, guaranteeing efficiency and a long working life.

AVAILABILITY 2nd HALF 2007



General characteristics

Power supply: 230V 50/60 Hz electronically protected

Power absorption: 35 VA

Emergency power supply: 24 Vcc 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

OH/B065

Rechargeable battery

PRODUCT CODE: 6790-0500

Connected to the supplementary power supplier, they preserve the mains bus power supply, and keeps all the Hoasis devices powered for up to 10 hours.

AVAILABILITY 2nd HALF 2007



General characteristics

Output voltage: 12 Vdc

Output current: 6.5 A/h

Dimensions: 151x101x65 mm

OH/R.01 Relay 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, 5A max with resistive load (2A 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

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).



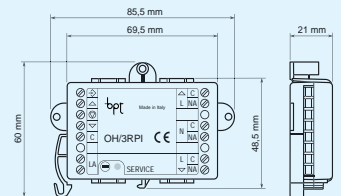
General characteristics

Power supply: 230V 50/60 Hz electronically protected
Electrical input: 24 VA.
Emergency power supply: 12 V DC-AC, 1A.
Operating temperature: from 0° C to +35° C.
Dimensions: low-profile 8-unit module for installation on DIN rail

OH/3RPI 3 relay 3 input module

PRODUCT CODE: 6760-0700

Realised on a miniaturised container, it allows connection of 3 inputs from control devices (push buttons, sensors, etc.) and 4 outputs for electrical loads.



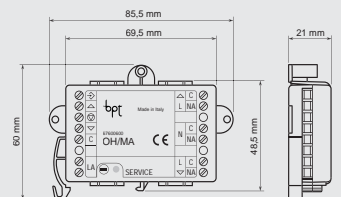
General characteristics

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, 16A max with resistive load (5A 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

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, 16A max with resistive load (5A 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

OH/Z.02 GR

Zone module

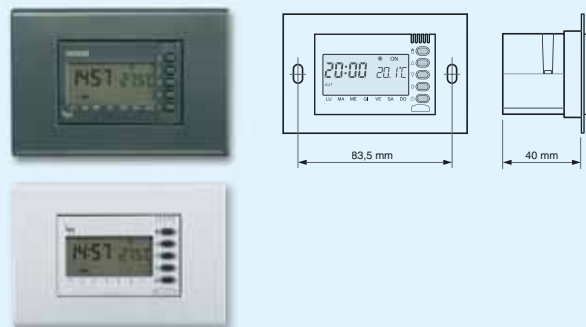
PRODUCT CODE: 6720-0110

OH/Z.02 BB

Zone module

PRODUCT CODE: 6720-1200

This can be inserted in normal standard 3-module recessed boxes. 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 $\pm 2^{\circ}\text{C}$ or override the temperature control for the related zone.



General characteristics

Display: LCD graphic

Protection rating: IP30

Operating temperature: from 0°C to $+40^{\circ}\text{C}$.

Dimensions: standard 3-module recessed box

Power supply: from bus line

Operating mode: Manual, Automatic, Zone Bypass.

Anti-freeze temperature: $+8^{\circ}\text{C}$.

Type of input contacts: 5V 1mA

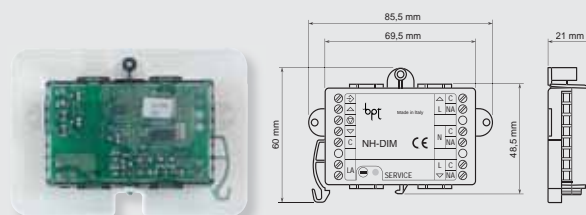
Connections to system: non-polarised twisted pair

NH-DIM

Dimmer control module

PRODUCT CODE: 6760-0800

The module, equipped with 1 relay and a $1\div 10\text{ V DC}$ output, lets you control a dimmer with a $1\div 10\text{ V DC}$ input for neon or incandescent lamps.



General characteristics

Power supply: from bus line

No. of relays: 1

Type of relay: 16A for DIMMER or resistive loads, 5A for inductive loads-NO contact

Operating temperature: from 0°C to $+35^{\circ}\text{C}$.

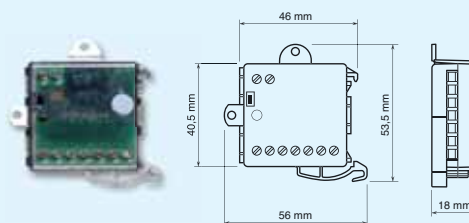
Dimensions: low-profile 1-unit module for installation on DIN rail

OH/6I

6 input 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 $+35^{\circ}\text{C}$.

Dimensions: low-profile 1-unit module for installation on DIN rail

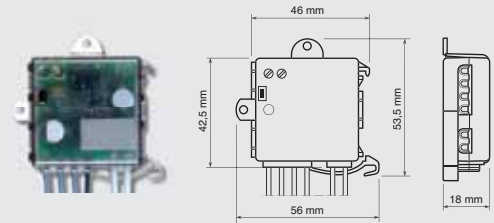
Connections to system: non-polarised twisted pair

OH/RI

1 relay 3 input 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 (e.g. activation of lights with switch/shunt controls).



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, 5A max with resistive load (2A 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

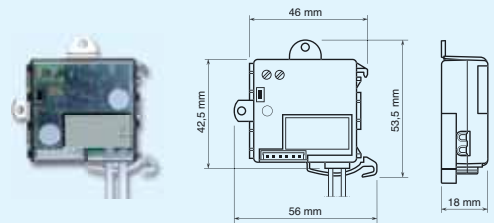
Connections to system: non-polarised twisted pair

OH/RP

Module with 1 relay OH/RP

PRODUCT CODE: 6760-0400

Realised on miniaturised container, with one output for electrical load. Particularly 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, 16A max with resistive load (5A 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

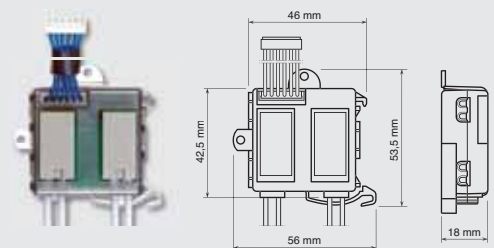
Connections to system: non-polarised twisted pair

OH/2RP

2 relay 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, 16A max with resistive load (5A 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

OH/SW

Programming software

PRODUCT CODE: 6790-0300

This is used for programming and customising all system devices and parameters, and also to create and customise the functional graphic interface of the terminal.

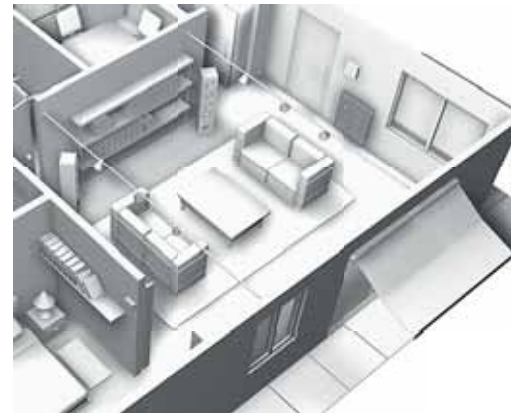


General characteristics

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 operating system.

Package: software CD, USB cable, interface hardware device for programming

Activation of standard scenarios



Entry scenario

For example:

- Shutters activate one at a time and move to the desired height. The height for the shutters can be programmed with the timers*.
- Lights come on in the desired areas.

* N.B. The use of shutters requires them to be equipped with a protection device. Ensure that the system is equipped with automatic limit switches and/or a detection and stopping system in case of obstacles.



UP/DOWN



SHUTTERS



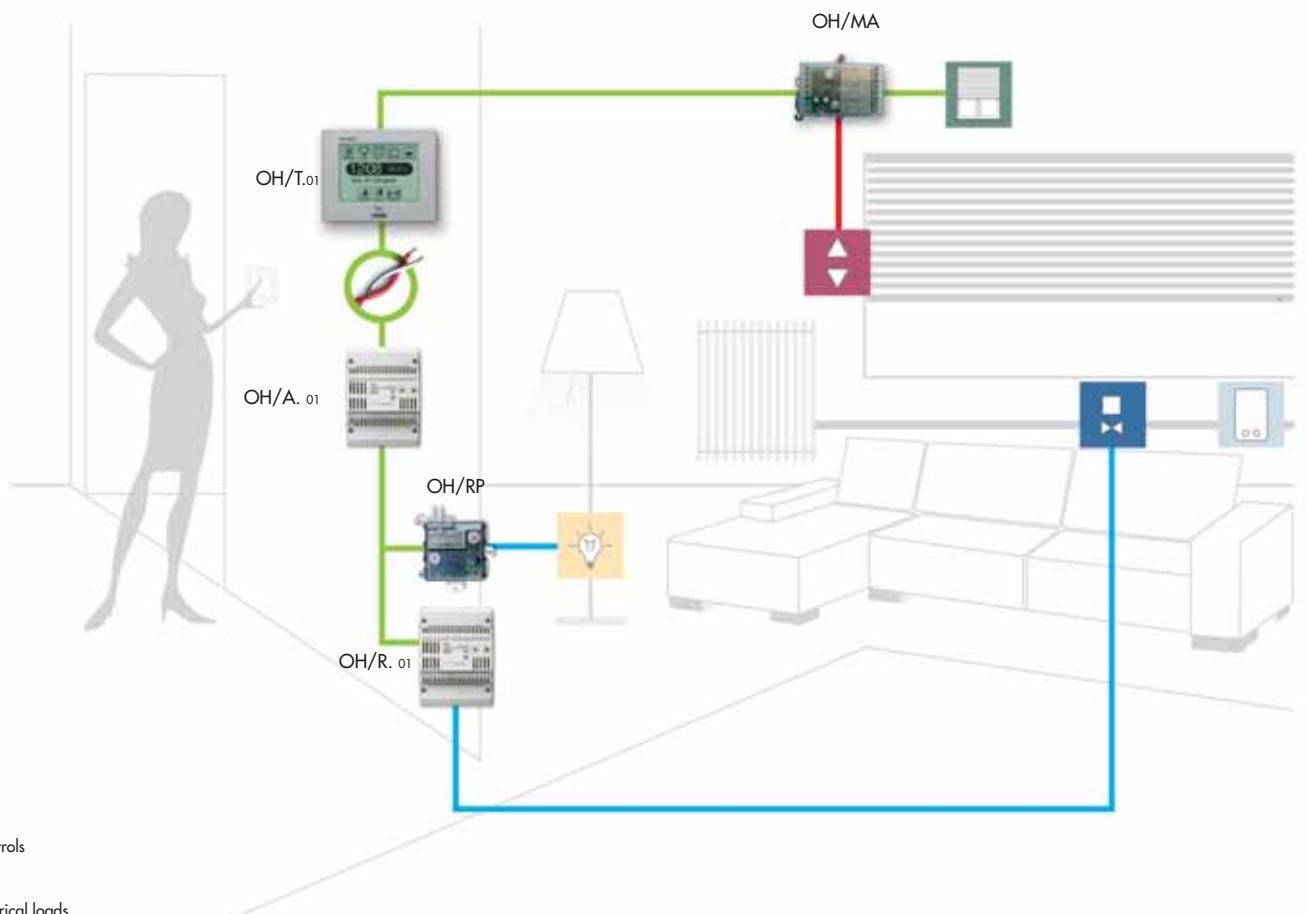
SOLENOID VALVE



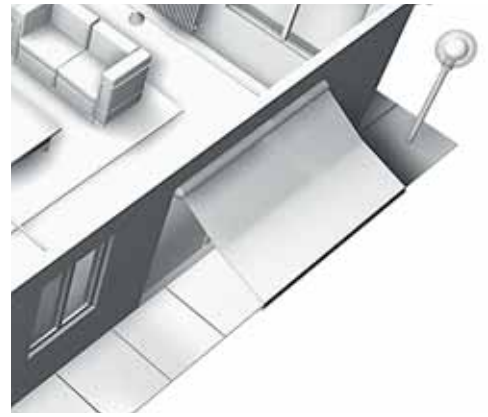
BOILER



LIGHTING



— Controls
— Bus
— Electrical loads



Awning automation

With this configuration you can:

- Raise and lower awnings locally with the traditional interlocked buttons.
- Control opening and closing of all awnings in sequence at pre-set times*.
- Lower all awnings automatically at a certain time of the day or in certain lighting conditions detected by the twilight sensor connected to the system.
- Raise all awnings automatically in the event of bad weather, in accordance with commands received from the barometer.

* N.B. The use of awnings requires them to be equipped with a protection device. Ensure that the system is equipped with automatic limit switches and/or a detection and stopping system in case of obstacles



UP/DOWN



AWNINGS



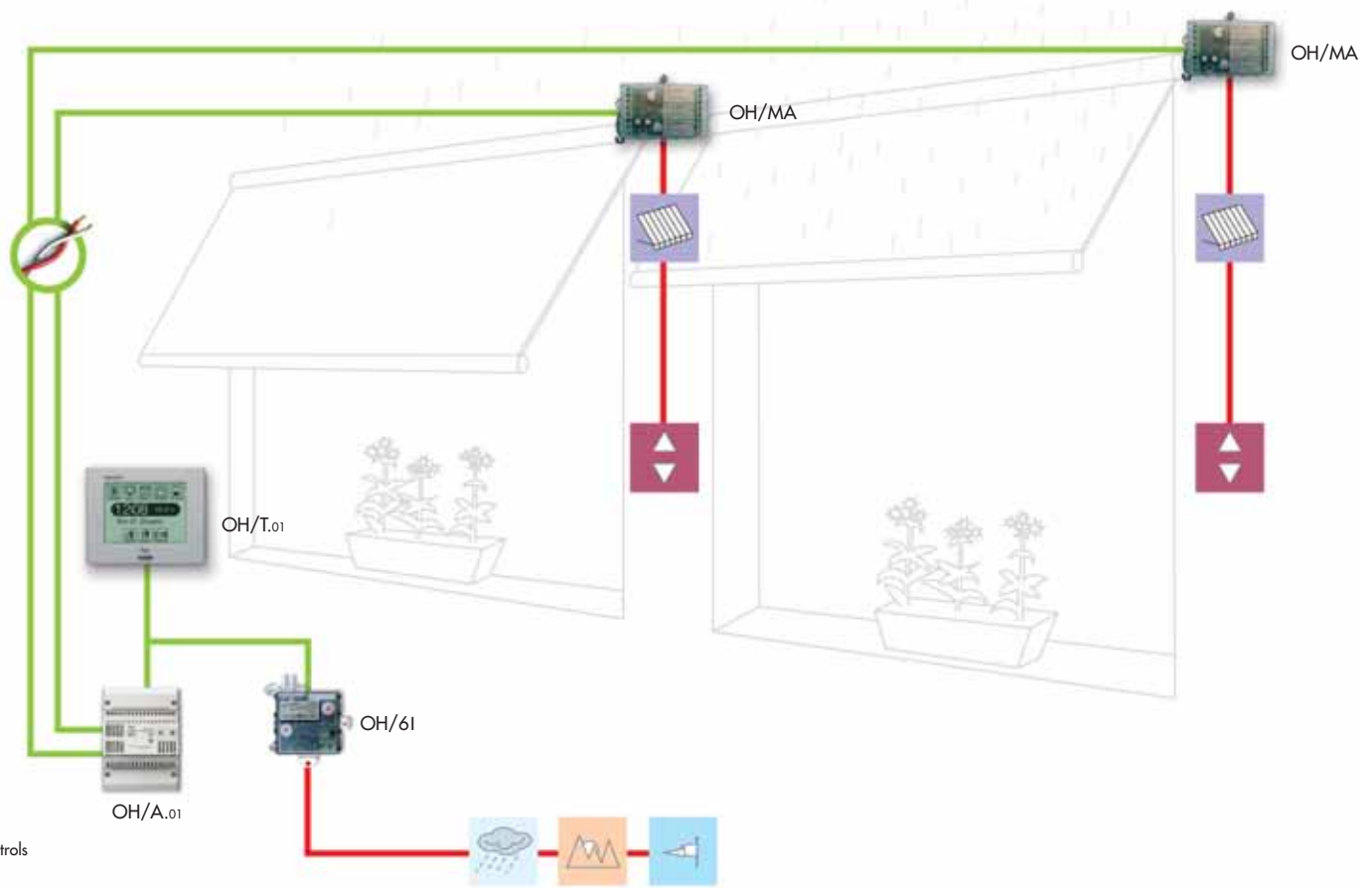
STATION
BAROMETER

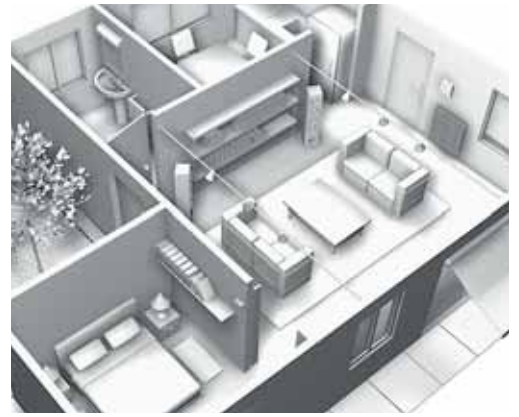


ANEMOMETER



TWILIGHT





Multi-zone temperature control

This application lets you:

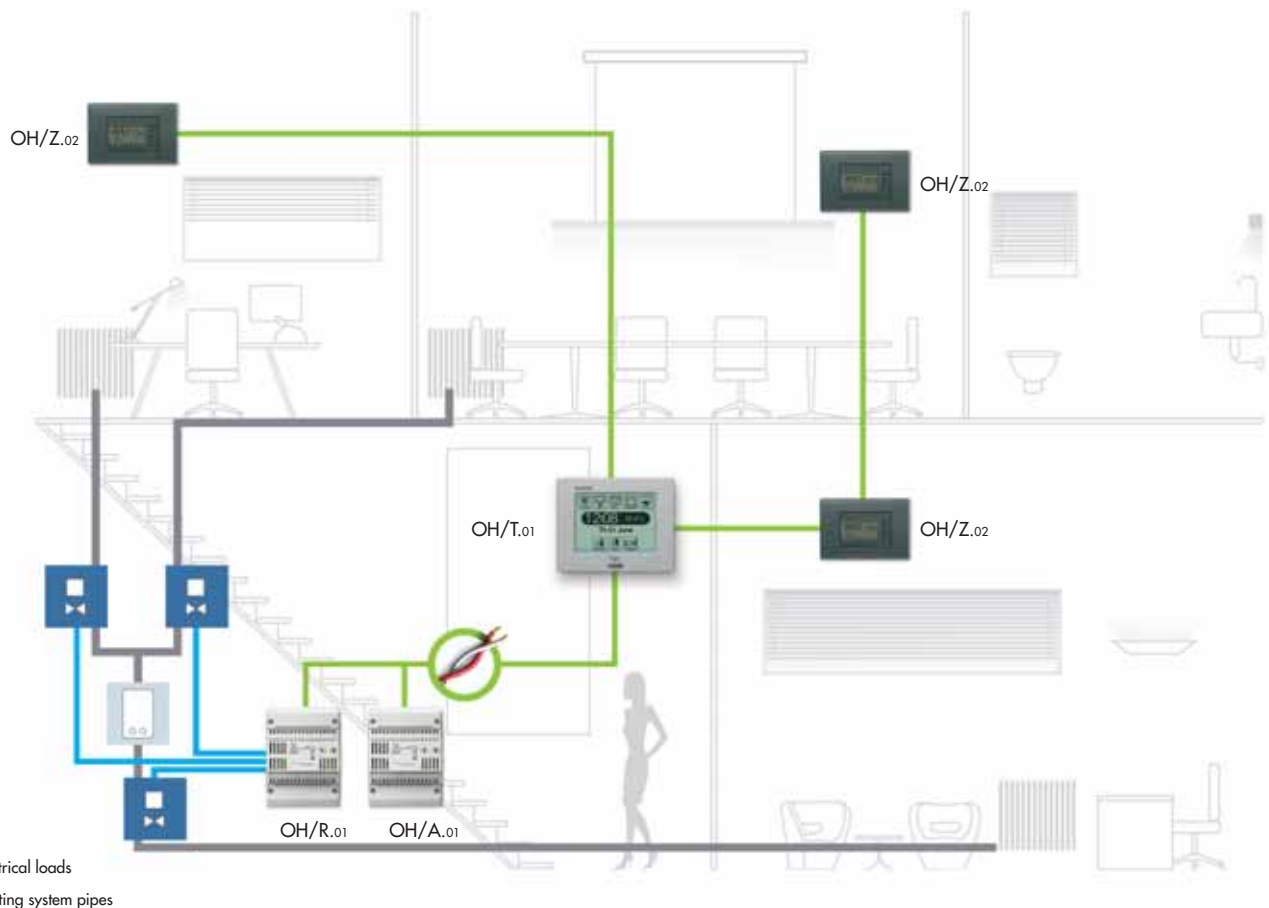
- Programme and control the temperature of each area.
- Modify the temperature in each area.
- Modify the times and date for each module automatically when changing over to summer time.
- From each zone module you can change to manual operation and adjust the temperature up to $\pm 2^{\circ}\text{C}$.

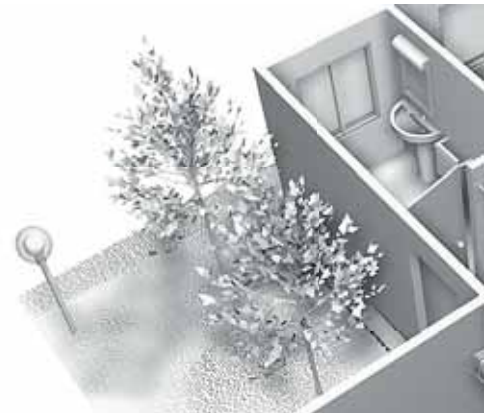


SOLENOID VALVE



BOILER





Garden irrigation

This application lets you:

- Manually activate/de-activate individual irrigation zones from the terminal.
- Activate all irrigation devices simultaneously (if there is sufficient water pressure).
- Automatically activate each irrigation zone based on a programme that can be customised to suit your personal needs.
- Bypass all activation in the event of inclement weather, by means of connection to a rain detection system and a barometer.

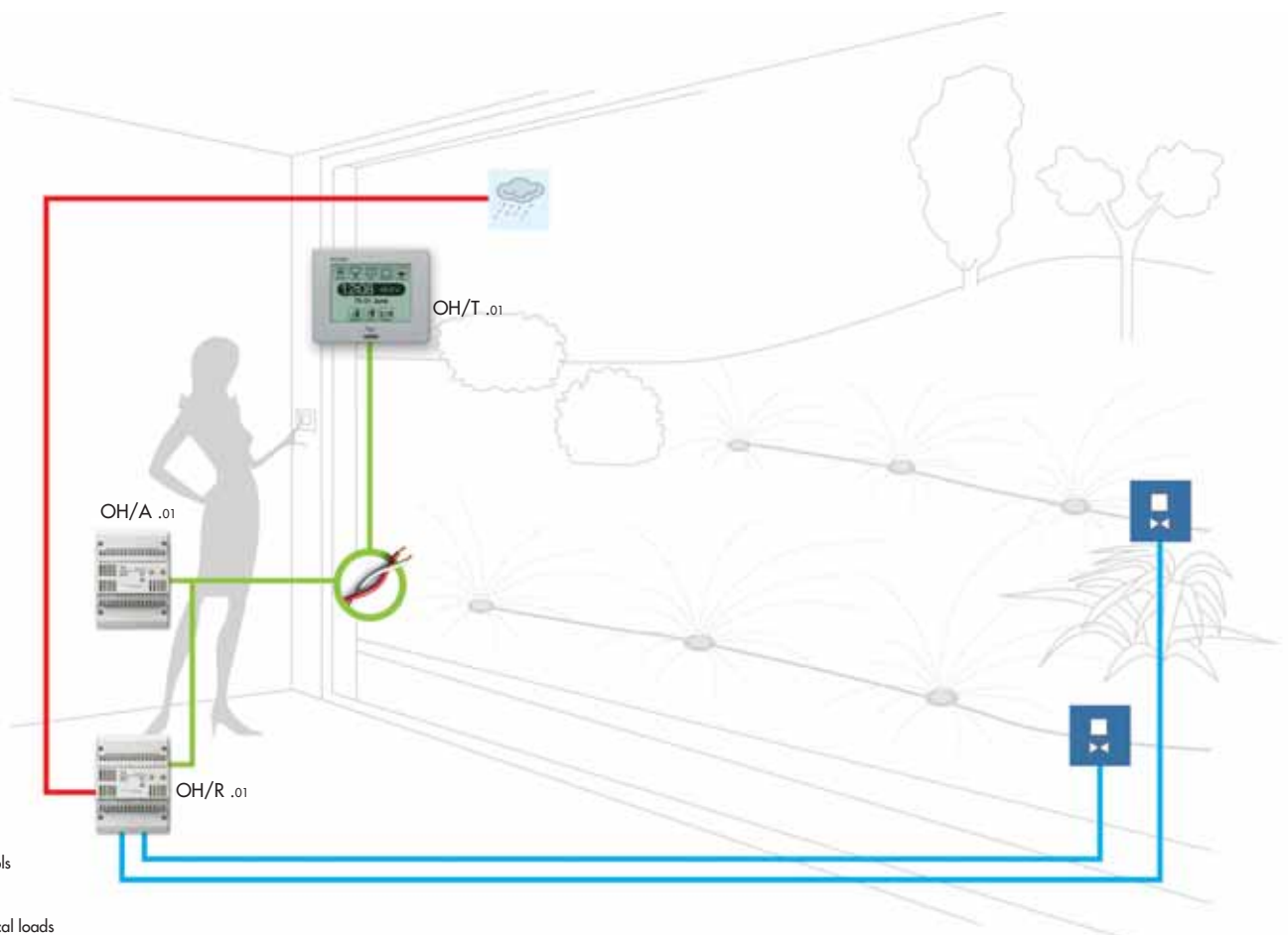


SOLENOID VALVE



BAROMETER

Hoasis Plus replaces expensive timer devices, making the system more economical and functional.





External lighting

With this configuration:

- Lights come on and go off automatically when a person passes by.
- Lights come on automatically at a predetermined time.
- A single light/group of lights comes on locally.
- De-activation of the entire system with appropriate general command or when twilight sensor trips.



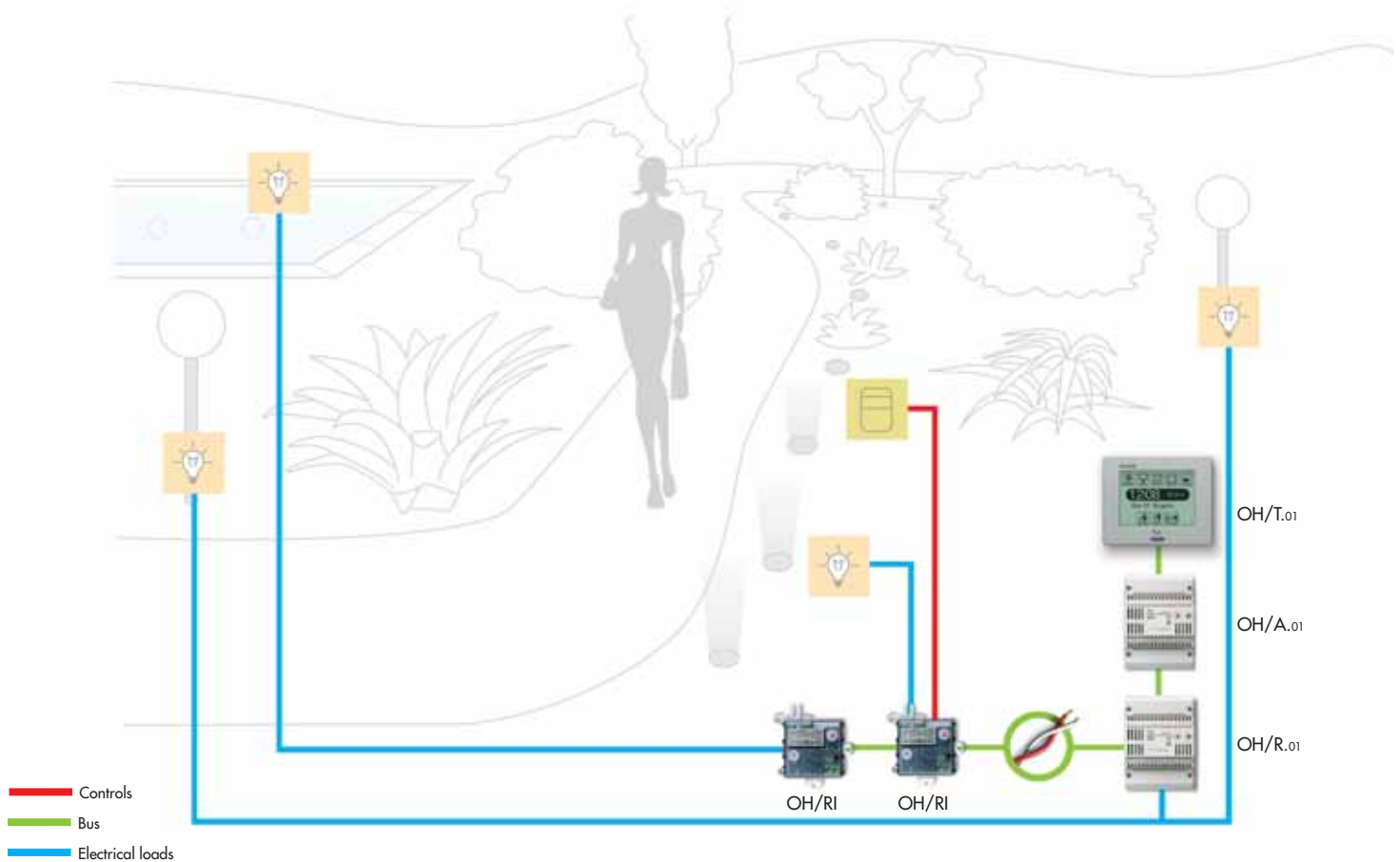
LIGHTING



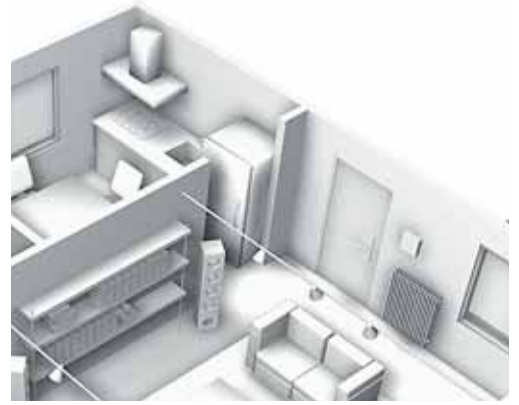
MOTION SENSOR

Along with the classic local control buttons, the terminal can be used to programme when lights will come on or go off without the need to use external timer devices.

In traditional systems, any variation would be made via the timer devices located on the panel, which is not particularly convenient.



Exit scenario



With this configuration:

- Shutters close one at a time.
- Lights go off in sequence.
- Zone valves for water and gas are closed

The OUT scenario can be duplicated with a traditional button.

The GSM telephone controller sends the text messages on system status and receives service activation messages from the user via text message



UP/DOWN



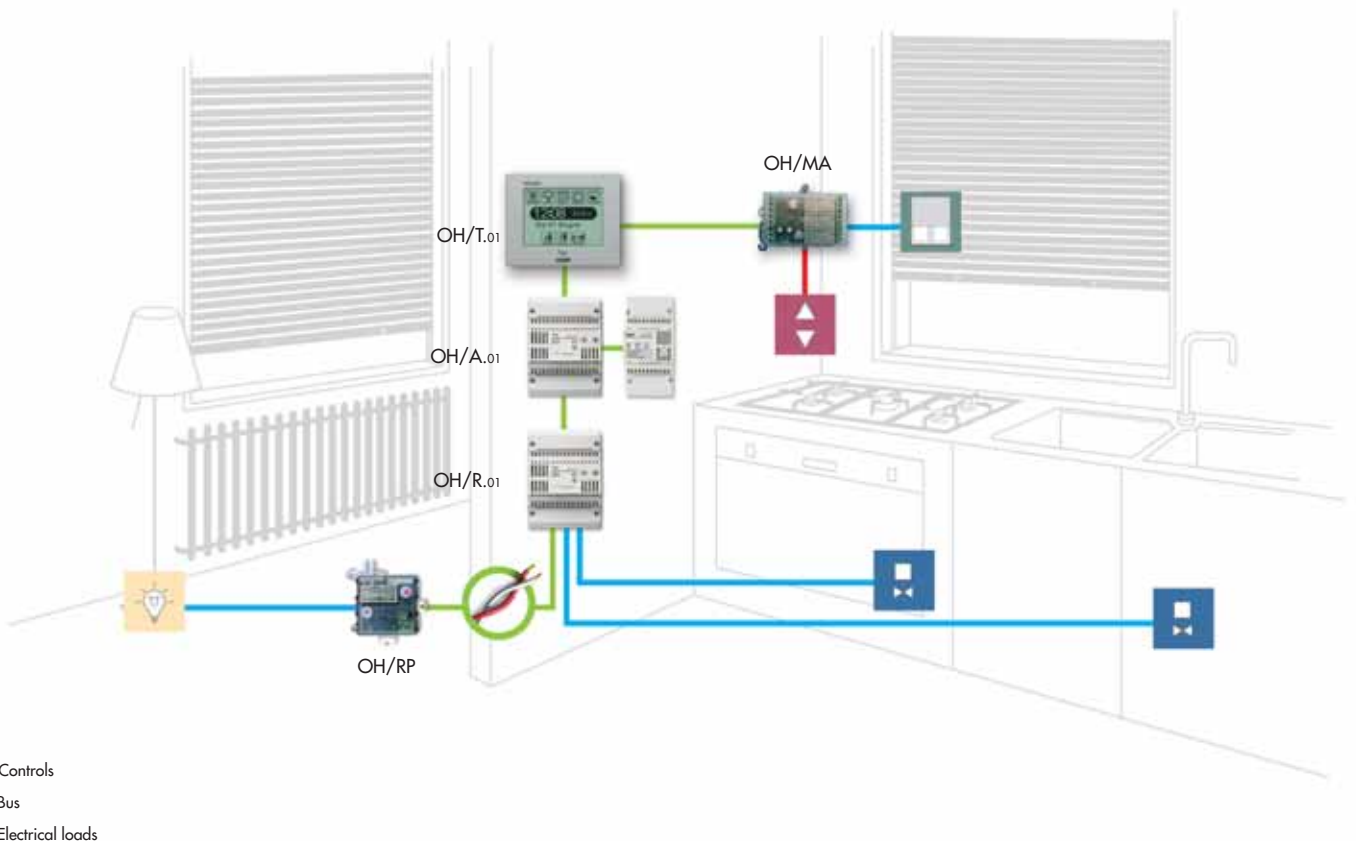
SHUTTERS



SOLENOID VALVE



LIGHTING





Bpt S.p.A. reserves the right to modify the information in this document at any time.

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