









The easiest way to discover home automation is with BPT.



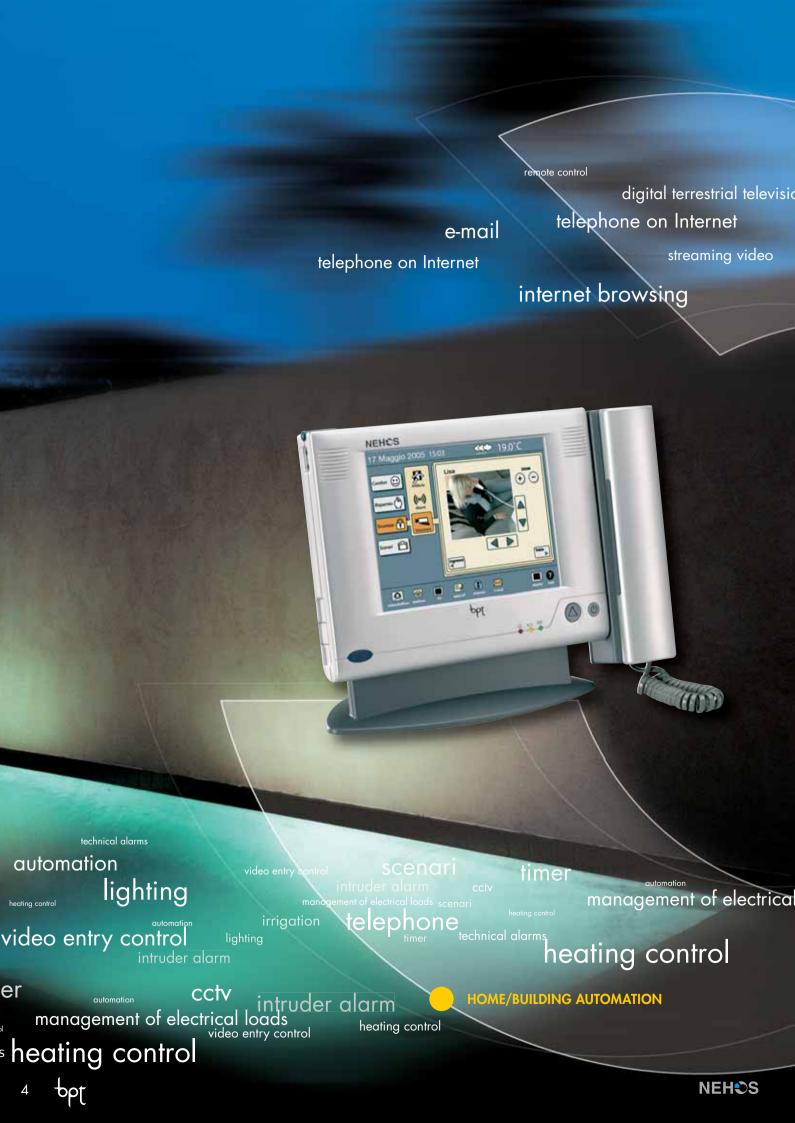
The hustle and bustle of everyday life and the increased amount of time spent outside the home often leads to a need for more convenience and safety, for user-friendly technology, that helps simplify life. And so we have a new concept of comfort: not just physical, but emotional as well.

HOMESAPIENS is the answer to these needs.

With Nehos, the design of a truly smart and interactive building is within everyone's reach. Ease of use and attention to detail and leading the industry to meet new challenges have always been part of Bpt's philosophy.



Home automation made easy where the future is now.



video entry control

telephone on Internet digital terrestrial television

internet browsing

telephone on Internet

digital television streaming video

remote control

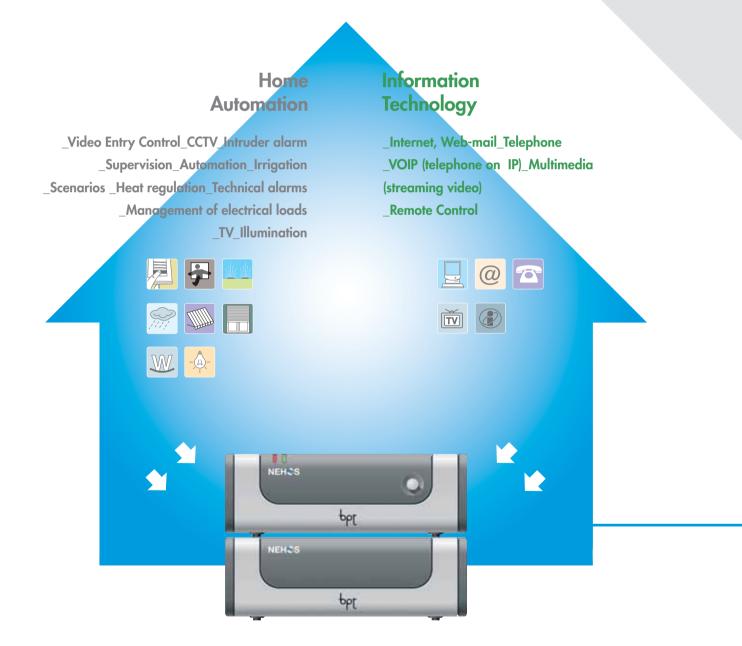
remote control

digital terrestrial television video entry control

remote control



A bridge between home automation and information technology.



Access the Internet, read and write email, answer the door or the telephone, watch a movie. Or monitor every single light, every shutter... That's the idea behind the Nehos project: to make home automation not just automation, but especially entertainment and safety. A technological bridge that connects the world of home and telecommunications, with new services that are ready for use, such as telephone on the web (VOIP-Voice Over IP) and watching video and events (VOD-Video On Demand). Nehos is a portable touch screen terminal equipped with a simple and intuitive interface, that can go anywhere, thanks to its ability to operate in wireless mode. Safety is also avant-garde. In fact you can control the intruder alarm and the surveillance system cameras, also remotely, , by connecting to your home through the portal created by Bpt.



Automation swings into action.

OMFORI



Lights: _general lighting control, by area, room or single point

_management of dimmer switches for lights



Air conditioning: _weekly temperature control for each zone with 3 different levels

Openings: _control of automation by type (shutters, windows, curtains), by zone and by single automation

SAVINGS



Loads: _selection of operating priorities for each load on three levels (high/medium/low).

_management of controls on electrical mains

VEETY



Cctv: _connection and live viewing of up to 64 cameras

_zoom and slewing control and also dome camera



Security: _display of status for each zone, for each room or for each single sensor

_alarm on event and forwarding of signal to remote location



Technical alarms: _management of technical alarms (water, gas, etc.) with reporting of events and signalling to remote location

SCENARIOS



Scenarios: _intuitive icons for each scenario

_display of activations contained in each scenario

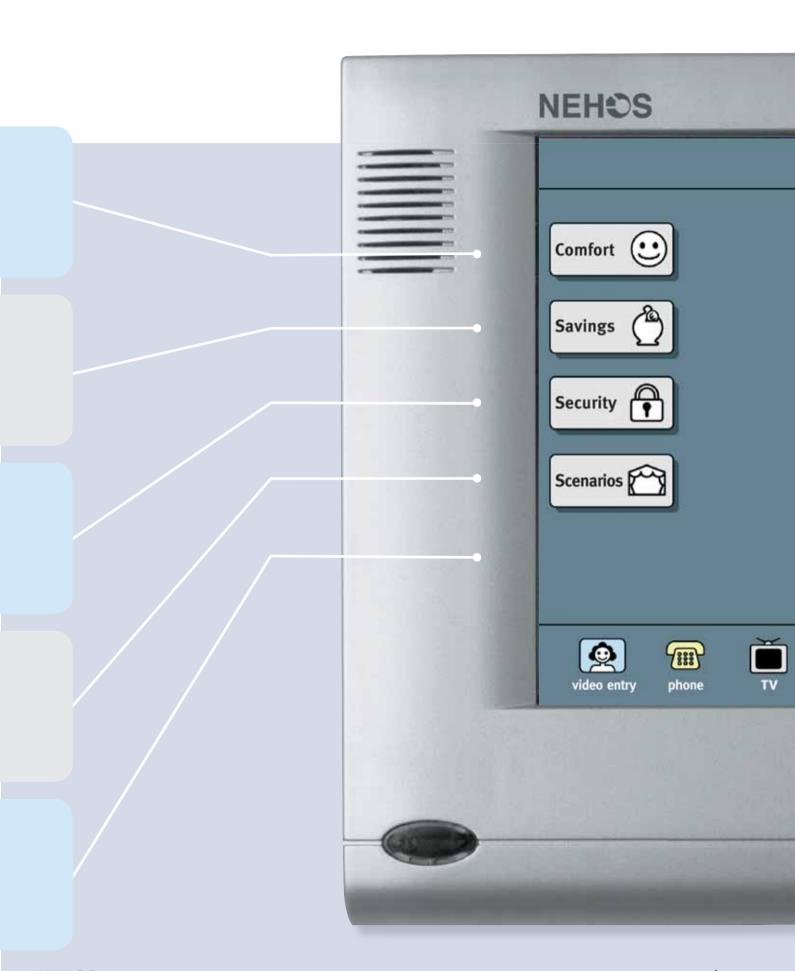
_customizable timed scenarios

IMER



Lights: __timed control for any hour of the day or for any day of the week

Irrigation: _max 2 activations for each day of the week



Entertainment functions.

Video entry control



»internet browsing



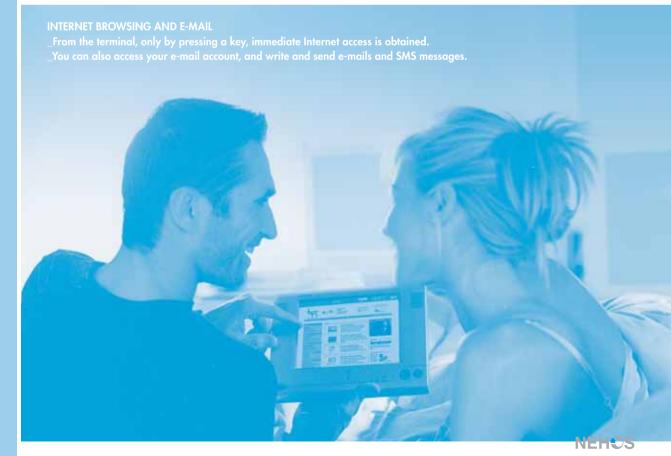










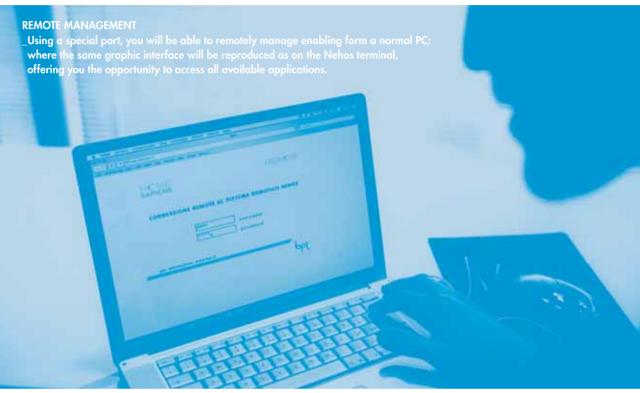


» tv and video on demand »

remote management



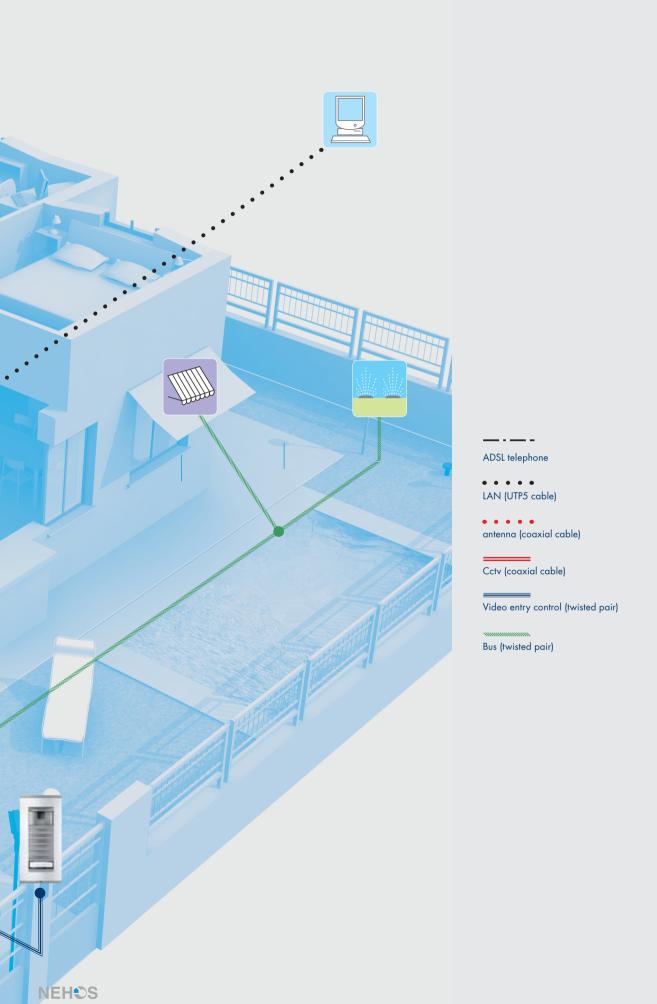






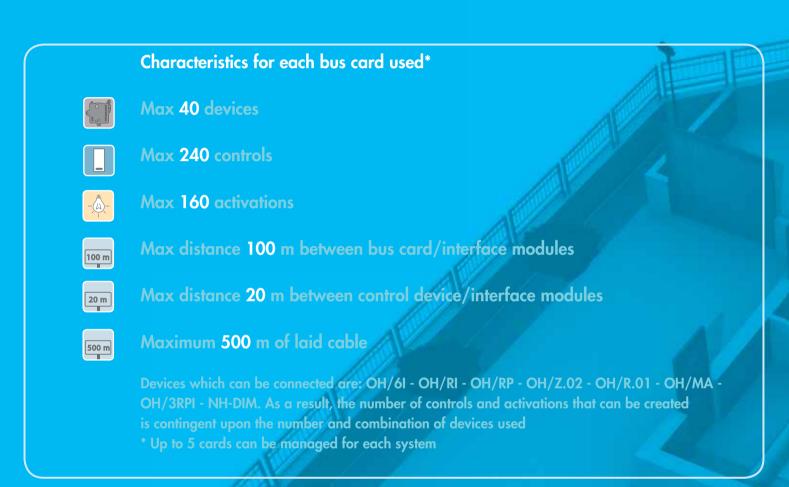


NEHOS The infrastructure. 12 **bpt**



The system by the numbers.

How to make the most of its potential.







The components.

NH-T

Home automation control terminal

PRODUCT CODE: 6720-0400

Lets you monitor and control all electrical applications in the system. It also includes entertainment functions (TV viewing and video on demand-VOD, browsing the Internet and e-mail, PSTN and VOIP telephone, video entry control, etc.).

NH-KW

Wireless kit

PRODUCT CODE: 6720-0900

Installed in the NH-T home automation terminal, it allows transmission of data from a remote location to the NH-BC core unit (via NH-AP access point). It is composed of a PCMCIA WiFi card and a Ni-Mh battery.

Card characteristics

Data transmission speed: 11 Mbps.

Frequency band: 2.4 GHz.

Battery characteristics

Nominal voltage: 12 Vcc. - Capacity: 2,1 Ah.

NH-KIR

Wireless keyboard

PRODUCT CODE: 6720-1000

It is normally used for more convenient access to Internet and to send and write e-mails, as an alternative to the virtual keyboard on the terminal.

General characteristics

No. of keys: 85. - Data transmission: IRDA.

Transmission distance: < 5 m.

Power supply: 2 alkaline batteries type AA da 1,5 V.

Dimensions: 86x75x25 mm.



NH-ST

Tabletop support

PRODUCT CODE: 6720-0600

It is used to set the terminal on a tabletop.

General characteristics

Connections: one 2.5 mm jack for plug power supplier connection (NH-AS) - one RI45 connector for LAN connection.

Dimensions: 280x145x215 mm

NH-SC

Receiver with support

PRODUCT CODE: 6720-0700

General characteristics

Connections: connection to terminal with snap-in connector.

Dimensions: 80x210,5x60 mm.



General characteristics

Display da 8,4" a colori TFT touch-screen

Dimensions: 260x200x32 mm

Standard equipment: 1 input pen - 1 plug power supplier (NH-AS

Optional equipment: Wall kit - table kit

Wireless kit (battery NI-MH of 1900 mAH, card PCMCIA WIFI)

NH-AD

Power supplier

PRODUCT CODE: 6700-0300

This is used to supply the NH-T home automation terminal in the wall-mounted version.

Technical features

Power supply: 230V AC 50/60. The transformer is electronically protected against overloads and short circuits.

Output voltage: 20 Vcc +/- 5%. Maximum output current: 2A. Absorbed power: 80VA max.

Dimensions: low-profile 4-unit module for installation on DIN rail.



NH-SP

Wall-mounted support

PRODUCT CODE: 6720-0500

This is used to fasten the terminal to the wall. For a terminal in a WIFI version, the bracket is also used as a battery charger.

General characteristics

Connection: 2 terminals for power supply connection (from NH-AD power supplier) -one RJ45 connector for LAN connection.

Dimensions: 220x150x22 mm

NH-AS

Plug-in power supply

PRODUCT CODE: 6700-0200

This is used to power and recharge the batteries of the terminal when using the WIFI version. Remember that the terminal is already equipped with one NH-AS.

General characteristics

Power supply: 230 Vac 50/60 Hz. Output voltage: 18 Vcc 2,2A.

Electrical input: 80 VA.

Operating temperature: from 0° C to 35° C.

Dimensions: 117x65x32 mm

Output: 2.5 mm jack with internal positive and 1.8 m cable

NH-BC

Core unit

PRODUCT CODE: 6710-0100

This manages all media originating from external sources: telephone line, coaxial cable from TV system, twisted pair of the video entry control system, and LAN. It then shunts all signals to the terminal. The connection to the terminal, with IP protocol, can be made with either Ethernet or WIFI.



General characteristics

Power supply: 230 Vac 50/60 Hz 150 W Dimensions: 308x220x105mm

NH-BI

Bus interface unit

PRODUCT CODE: 6710-0200

This manages all automation devices in the home.

A communication bus is used between the various devices via two media: on a normal non-polarized twisted pair with free wiring, or on a dedicated electrical mains line via carried waves (bus power line).



General characteristics

Power supply: 230 Vac 50/60 Hz 150 W **Dimensions:** 308x220x105mm

NH-BIBB

Bpt bus card

PRODUCT CODE: 6710-0300

Installed in the NH-BI unit, it makes it possible to manage all input and output interface units by means of a non-polarized twisted pair and to manage all their operating parameters.

General characteristics

Maximum number of devices that can be connected: 40
Connections: 2 terminals for connection of the twisted pair

NH-BIPL

Power line bus card

PRODUCT CODE: 6710-0500

Installed in the NH-BI unit, it makes it possible to manage all input and output interface units by means of direct connection via the 230 V AC electrical mains. It is normally used for control with priority of disconnection of the electrical loads connected to the system.



General characteristics

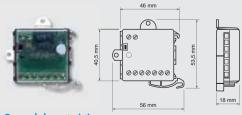
Maximum number of devices that can be connected: $40\,$

OH/6I

6 input module

PRODUCT CODE: 6760-0200

It allows connection of 6 inputs from control devices (buttons, sensors, etc.)



General characteristics

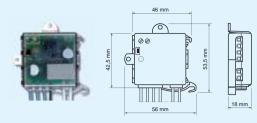
Type of contact input: NO and NC, without cross passage of current or voltage at ends

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

OH/RI Module 1 relay 3 inputs

PRODUCT CODE: 6760-0300

It allows connection of 3 inputs from control devices (buttons, sensors, etc.) and 1 output per electrical load.



General characteristics

Type of contact input: NO and NC, without cross passage of current or voltage at ends

No. of relays: 1

Type of relay: 2250 V max, 5A max with resistive load (2A max with inductive load) - contact NO

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

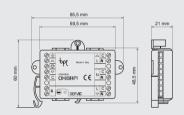
OH/3RPI

Module 3 relays 3 inputs

PRODUCT CODE: 6760-0700

Allows connection of 3 inputs from control devices (buttons, sensors, etc.) and 3 outputs for electrical loads.





General characteristics

Type of contact input: NO and NC, without cross passage of current or voltage at ends

No. of relays: 3

Type of relay: $250\,\mathrm{V}$ max, $16\mathrm{A}$ max with resistive load ($5\mathrm{A}$ max with inductive load) - contact NO

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

OH/R.01 Module 4 relays 4 inputs

PRODUCT CODE: 6760-0110





General characteristics

Type of contact input: NO and NC, without cross passage of current or voltage at ends

No. of relays: 4

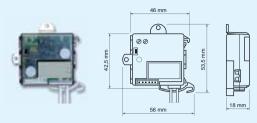
Type of relay: 250 V max, 5A max with resistive load (2A max with inductive load) - switched contacts (C NC NO)

Dimensions: low-profile 6-unit module for installation on DIN rail

OH/RP Module 1 relay

PRODUCT CODE: 6760-0400

It includes one output for one electrical load.



General characteristics

No. of relays: 1

Type of relay: $250\ V$ max, 16A max with resistive load

(5A max with inductive load) - contact NO

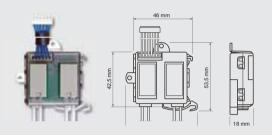
Dimensions: low-profile 1-unit module for installation on DIN rail

OH/2RP

Expansion module 2 relays

PRODUCT CODE: 6760-0500

With 2 outputs for the same number of electrical loads. 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

No. of relays: 2

Type of relay: 250 V max, 16A max with resistive load

(5A max with inductive load) - contact NO

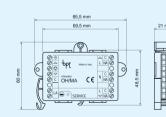
Dimensions: low-profile 1-unit module for installation on DIN rail

OH/MA

Automation module

PRODUCT CODE: 6760-0600





Includes 3 power relays for management of automations (curtains, shutters, etc.) via relative local control buttons. It allows control of outputs via 3 local inputs (up, down, stop) with human presence detector and with window function (raising and lowering of blind for an adjustable length of time). The device also makes it possible to separate the neutral and the two phases of the power supply of the motors corresponding to the connected automation.

General characteristics

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) - contact NO

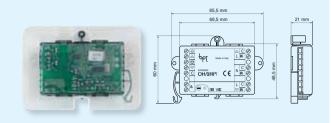
Dimensions: low-profile 1-unit module for installation on DIN rail

NH-DIM

Dimmer interface module

PRODUCT CODE: 6760-0800

It is equipped with 1 relay and a $1 \div 10V$ DC output, with which it is possible to control a dimmer with a $1 \div 10V$ DC input for neon or incandescent lamps.



Technical features

Power supply: from bus line.

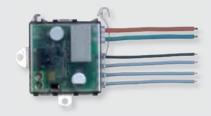
Actuator with relay for 16A DIMMER input or incandescent lamps, 5A for inductive loads, fluorescent lamps or ferromagnetic transformers

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

NH-IPL

Load management module

PRODUCT CODE: 6760-0900



Via the power line (230V AC) it receives commands from the interface bus, and is able to activate/de-activate the internal relay. It can be installed in normal recessed boxes.

General characteristics

No. of relays: 1

Type of relay: 250 V max, 6 A max with resistive load (5 A max with inductive load) – contact (C-NC-NO)

Dimensions: low-profile 2-unit module for installation on DIN rail

NH-DPL

Module for management of power line loads with 4 relays

PRODUCT CODE: 6760-1000

Via the power line (230V AC) it receives commands from the interface bus, and is able to activate/de-activate the internal relays. It is to be installed on a DIN rail, allowing perfect star management of electrical loads.



General characteristics

No. of relays: 4

Type of relay: 250 V max, 10A max with resistive load (5A max with inductive load) - contact (C-NC-NO) Dimensions: low-profile 6-unit module for installation on DIN rail

NH-MPL

Measuring device of power line current

PRODUCT CODE: 6760-1100

This lets you measure the absorbed current in an electrical system via an internal amperometric transformer for the management of connected electrical loads. The maximum power the instrument can record is 6 Kw.



Technical features

Range of current read: 0,1-32 A.

Power supply: from electrical line: 230Vca, 50Hz.

Dimensions: low-profile 6-unit module for installation on DIN rai

OH/Z.02

Module for area temperature control

PRODUCT CODE: 6720-0220

This lets you control the temperature of the zone in which it is located. You can select the operating mode (automatic/manual), modify the room temperature by a maximum of \pm 0 or to override the temperature control for the corresponding zone.







General characteristics

Display: LCD graphic

Operating temperature: from 0 °C to +40 °C
Dimensions: standard 3-module recessed box
Operating mode: manual, Automatic, Zone Bypass

Anti-freeze temperature: +8°C

NH-SWE8

Ethernet switch 8 ports

PRODUCT CODE: 6730-0400

This is used for distribution of the LAN throughout the building.



General characteristics

No. of ports: 8

Characteristics of ports: Ethernet 10/100

Operating temperature: from 0 °C to +40 °C

Power supply: 12 V DC 1 A from plug-in power supplier (included)

NH-SWE16

Ethernet switch 16 ports

PRODUCT CODE: 6730-0500

This is used for distribution of the LAN throughout the building.

General characteristics

No. of ports: 16

Characteristics of ports: Ethernet 10/100 Operating temperature: da 0° C a 40° C

Power supply: 12 V DC 1 A from plug-in power supplier (included

NH-MV

Modem voice PSTN

PRODUCT CODE: 6730-0300

This is used to manage telephone functions (audio, services) from the terminal.

Technical features

Operating standard: V.90/V.92 - 56Kbps in data reception/transmission

Connections: RJ11 connectors

Power supply: 9 V DC 800 mA from plug-in power supplier (included)

Operating temperature: from 0 $^{\circ}$ C to +55 $^{\circ}$ C.

NH-RSW

ADSL router with Ethernet switch 4 ports

PRODUCT CODE: 6730-0200

This is used to connect the system to the Internet.

Technical features

Operating standard: ADSL

Connections: Four RJ45 connectors - One RJ11 connector.

Power supply: 12 V DC 1.2 A from plug-in power supplier (included).

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

NH-AP

Wi-Fi access point

PRODUCT CODE: 6730-0600

This is used for transmission of the signal on the WIFI LAN to and from the terminal.

Technical features

Operating standard: 802.11 b/g.
Connections: RJ45 connectors.
Operating distance: < 100 m indoors.
Operating temperature: from 0 °C to +55 °C.

NH-RBB

Bpt 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 laid cable 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 AC, DC).



Technical features

Power supply: 230V 50/60 Hz electronically protected

Electrical input: 24 VA.

Emergency power supply: 12 V DC - AC, 1 A.

Operating temperature: from 0 °C to +35 °C.

Dimensions: low-profile 8-unit module for installation on DIN rail.

NH-C1D Bpt bus cable

PRODUCT CODE: 6790-0100

This is used for the connection of all input/output devices that make up the system.



General characteristics

External diameter: 5 mm
Type of sheath: PVC

Characteristics of wires: twisted pair

Cross-section: 0,38 mm

Resistance of electrical wires: 51 ohms/km Nominal impedance of wires: 100 ohms

Capacity of wires: 66 pF/m Isolation voltage: 300/300 V Package: skein 100 m

Applicable standards: CEI 20-11 - CEI 20-35 - CEI 20-20 - CEI 20-29

NH-PCN Nehos PC software

PRODUCT CODE: 6790-0200





This is used for programming and personalizing all system devices and parameters, and also to create and personalize the operational graphic interface of the terminal.

Technical features

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, 64 MB pen drive, LAN RJ45 network cable.

NH-UPS

Backup power supply

PRODUCT CODE: 6700-0500

This is used to provide power only to the devices that make up the BPT home automation system in the event of a power outage.



Technical features

Capacity: 1000 V A.

Range of mains voltage: 160-275 V AC.

Frequency: 50 Hz +/- 5%.

Type UPS: single phase.

Power factor: \le 0.95 at full load.

Battery voltage: 36 V DC.

Voltage: 230 V AC +/- 2%.

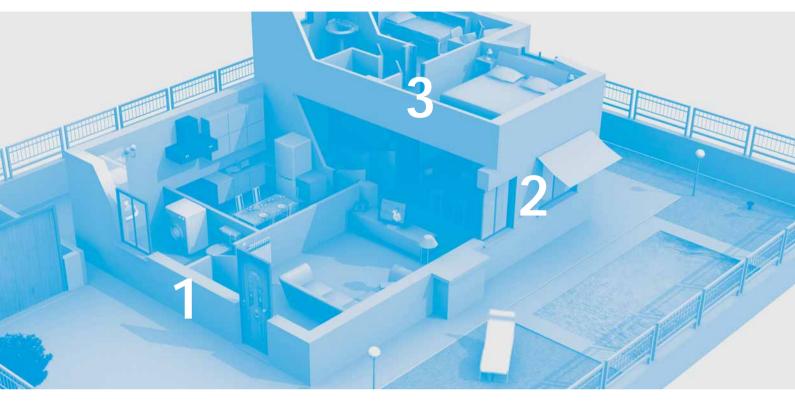
Frequency: 50 Hz +/- 0.5%.

Wave form: sinusoidal THD < 3%.

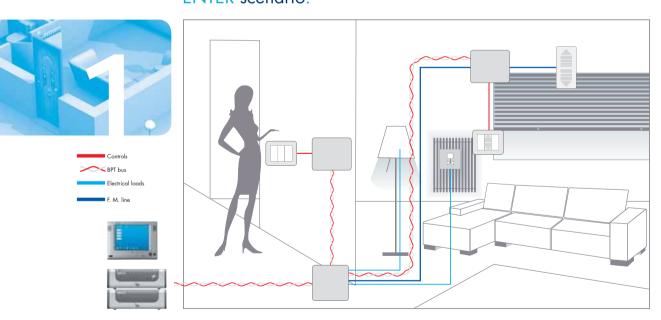
Output sockets: two shuko output sockets. **Dimensions:** 161x470x280 mm.

Weight: 18 Kg.

Examples of standard scenarios.



ENTER scenario.











A possible application:

- The blinds activate one at a time, moving to reach the desired height; the desired heights of the blinds can be programmed using the timer*.
- The 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.

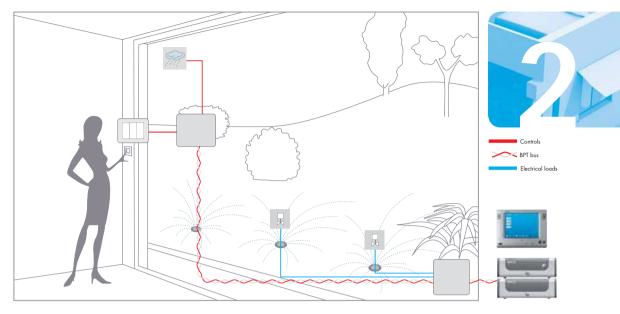
Irrigation scenario.











With this configuration you can:

- Automatically activate irrigation at scheduled times
- Control the scenario from the main on/off button or from the scenario button
- De-activate the function automatically in the event of inclement weather by the use of a barometer station

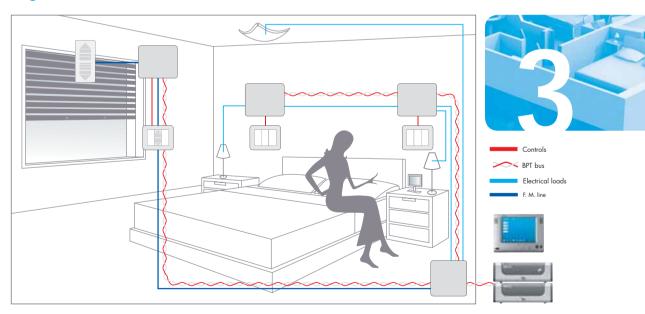
Night scenario.







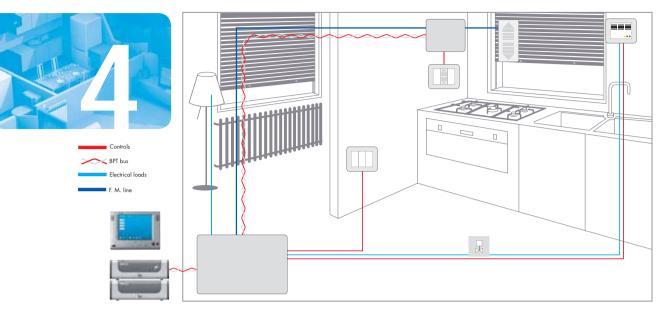




A possible application:

- Closing of blinds
- All lights turned off
- Activation of intruder alarm in night zone
- Scenario control from push button or terminal controls
- * 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

EXIT scenario.







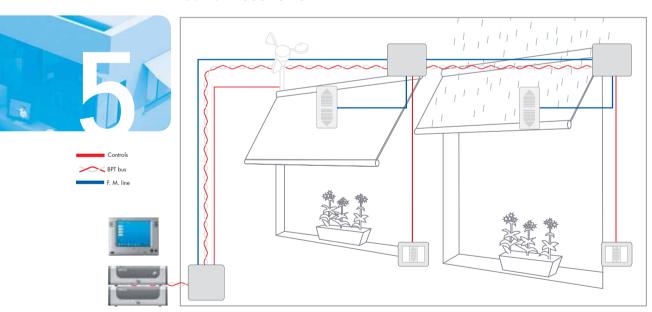




A possible application:

- The shutters close one at a time.
- The lights go off in sequence.
- Zone valves for water and gas are closed
- * 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.

Curtain scenario.











With this configuration you can:

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

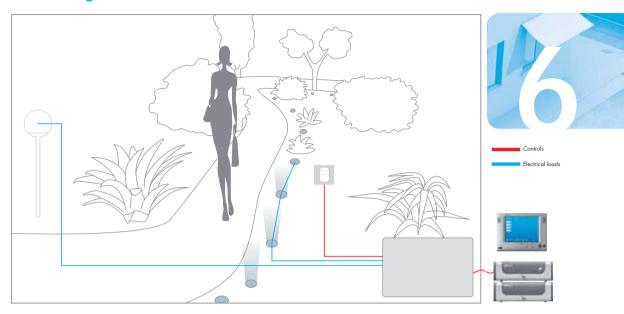
Garden lights scenario.







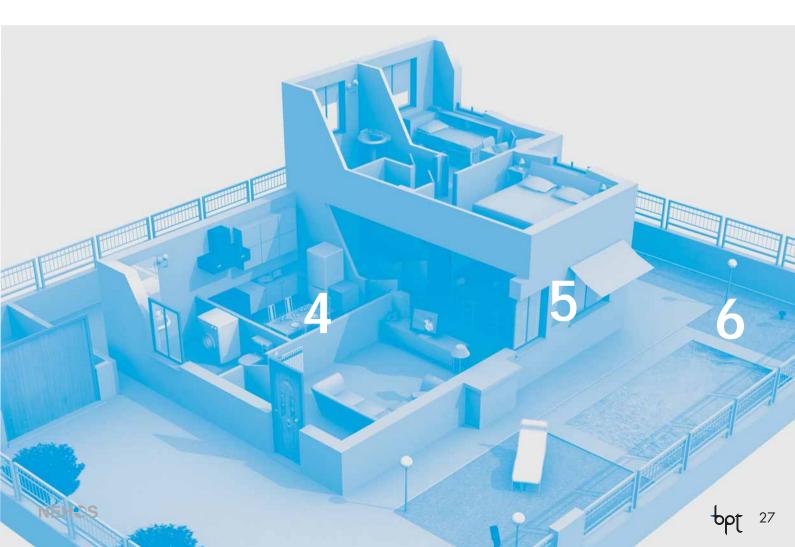




With this configuration:

- 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 the twilight sensor trips.

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.











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



