VIEW
IoT smart life

VIMAR

CATALOGUE

SMART HOME&BUILDING

VIEW: VIMAR ENERGY on the WEB.

Smart products and interconnected systems.

What is VIEW? VIEW is a range of stylistically matching smart products and interconnected systems that are also compatible with other manufacturers' products, all conceived with the aim of increasing simplicity for users and offering them an intuitive experience, working towards total control of their homes and a smart lifestyle.

In line with this premise, VIEW is Vimar's vision of the digital world and of the Internet of Things, which forms the guiding principle for the ongoing development of smart solutions, all connected to each other, to the Internet and to the user by means of state-of-the-art digital technologies. VIEW looks to the future, today.

Full control via APP.

All you need is your smartphone to manage and supervise your home and the objects in it, easily and instantly.

CONNECTED SYSTEMS
AND PRODUCTS

SOLUTIONS OFFERING
COMFORT, SAFETY AND
ENERGY EFFICIENCY

ADDED VALUE
SERVICES

VIEW

IoT smart life

PARTNERSHIPS
WITH STANDARD
PROTOCOLS AND
THIRD-PARTY
SYSTEMS

STYLISTICALLY
MATCHING
PRODUCTS AND USER
INTERFACES

INTEGRATION
BETWEEN VARIOUS
SYSTEMS FOR
A SINGLE USER
EXPERIENCE

A host of benefits that reflect the needs of a modern lifestyle.

CONNECTED SYSTEMS AND PRODUCTS

Vimar has created a whole range of systems that share acontemporary styling approach and wireless products utilizingtechnologies that are intuitive, reliable and precise.

CONNECTED SYSTEMS

By-me home automation

Well-contact Plus building automation

Elvox Video Entryphones

By-alarm burglar alarm system

Elvox TVCC

Call-way hospital system

Elvox Automations

CONNECTED PRODUCTS

ClimaCrono
Wi-Fi touch thermostat

ClimaPhone
GSM thermostat

Stand alone speaker system

Radio frequency controls

Wi-Fi access point

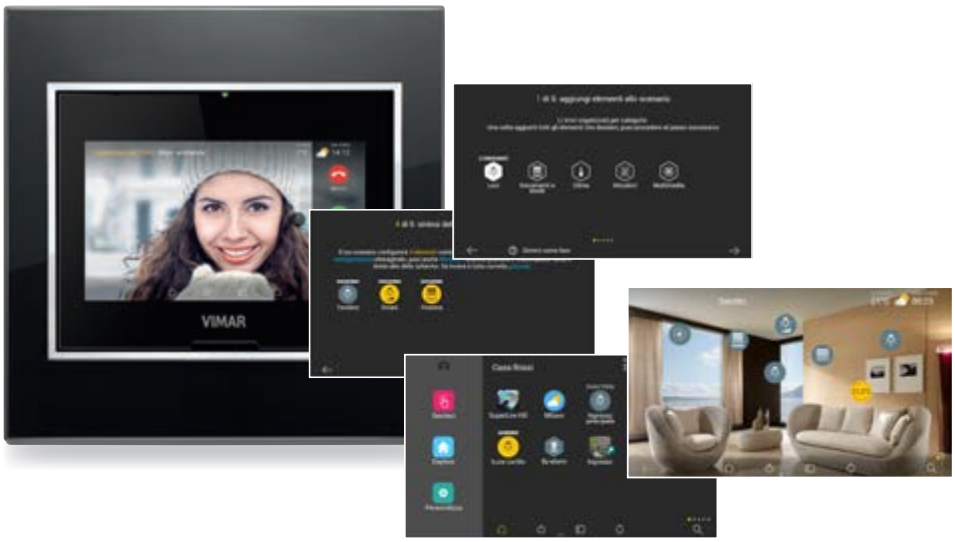
Wi-Fi video cameras

SOLUTIONS OFFERING COMFORT, SAFETY AND ENERGY EFFICIENCY

Effective, complete and suitable for all types of buildings, the solutions supported by View have been designed to provide maximum comfort and security. And all while ensuring the highest level of energy efficiency.

STYLISTICALLY MATCHING PRODUCTS AND USER INTERFACES

As with all Vimar products, View solutions are aesthetically coordinated right down to the last detail, in line with our philosophy that technology and style should always go hand-in-hand.



INTEGRATION BETWEEN VARIOUS SYSTEMS FOR A SINGLE USER EXPERIENCE

Smart products and interconnected systems also integrate seamlessly with products by other manufacturers, thus making life easier by providing a single user experience.

PARTNERSHIPS WITH STANDARD PROTOCOLS AND THIRD-PARTY SYSTEMS

In order to offer a comprehensive, fully integrated service, maximum synergy and partnership between Vimar protocols and those of leading brands in other production segments are guaranteed by specific international standards.

Friends of hue personal wireless lighting

ADDED VALUE SERVICES

Vimar supports sector professionals through training courses, dedicated technical assistance and personalised consultancy services. These activities are aimed at increasing the levels of expertise, safety and quality in their work.

Catalogue index

CLIMA&ENERGY.

Advanced solutions for temperature control and energy supervision.

Devices for constant climate control. But also intelligent solutions for managing energy in the home: thermostats and timer-thermostats combining the highest technological levels with top practical functionality. With a simple touch or the user-friendly cursors.

A wide range of products.

A complete range, packed with functions responding perfectly to any need. Surface and flush mounting thermostats and timer-thermostats, all with user-friendly controls. Some are even available with easy-to-read touch screens, allowing you to manage the device with a simple touch.
Battery or mains powered, they help you optimise energy consumption and create the perfect climate throughout the entire building.

Surface mounting.

Thermostats and timer-thermostats fitted with user-friendly controls, some with extremely easy-to-read touch screens and others with push buttons, cursors or dials. The new thermostats and timer-thermostats come with intuitive controls and easy-to-read touch screens. They allow for simple and comprehensive temperature control, whether you are at home or away, and display consumption levels to encourage energy saving. And what's more, with the timer-thermostat the boiler can be switched on and off with daily or weekly settings. Stand-alone solutions with wired-in, radio-controlled or wireless controls with GSM and Wi-Fi technology.

Flush mounting.

The climate control and energy functions are combined with a fully range of stylish designs, based on the combination with the Eikon, Arké, Idea and Plana series. Thermostats and timer-thermostats are fitted with highly sensitive, back-lit LED RGB touch screens, allowing perfect colour coordination with the finishes of the chosen cover plates.

And style comes with the whole series.

Slim silhouettes, a modern design and reflex white finishes for the surface mounting devices. And for the flush mounting devices, you can choose the cover plate you want from among the many available in the Eikon, Arké, Idea or Plana series.

Electronic temperature and humidity sensors.

Flush-mounting humidity and temperature probes, coordinated with the Eikon, Arké, Idea or Plana series.

Technical characteristics of the range.

-30%
energy saving

Energy classification.

Every device complies with the ERP regulation (Reg. EU 811/2013), providing all the useful information you need to calculate the energy classification of the heating system.
Moreover, by connecting a thermostat, you can save up to 30% on your electricity bill.

By-clima App.

The intuitive App makes it possible to remotely control the Wi-Fi and GSM surface mounting devices from your smartphone, allowing you to rapidly set the flush mounting devices by sending an audio signal.

User-friendly interface with hotkeys.

The user-friendly graphic interfaces allow you to rapidly switch on or edit the system operating parameters: fan-coil speed, required temperature, standby mode when going out or the set night-time reduction scenario.

Touch screen.

Many devices are fitted with highly sensitive touch screens to manage the different functions simply and immediately. In the surface mounting version, the GSM and Wi-Fi device screens come with white back-lighting, while in the flush mounting version they have LED RGB back-lighting, matching the colour of the chosen cover plate.

Main functions.

Temperature and consumption visualisation.

The touch screen makes the control of the perfect temperature and reading energy production or total consumption easy and intuitive.

PID algorithm.

The thermostats and timer-thermostats have an advanced algorithm that keeps the temperature as stable as possible, avoiding excessive fluctuations and encouraging energy saving. The total number of boiler operating hours can also be monitored.

Configurable multi-function inputs.

Configurable inputs for remote control, energy saving or summer/winter switching and for temperature sensors used to view, adjust or limit consumptions.

ecometer function.

An intuitive indicator uses a graduated scale (and dynamic display colour in the flush mounting thermostats) to indicate consumption values and warns through a leaflet symbol, when the comfort temperature is exceeded to encourage greater energy awareness.

Temperature regulation and humidity control.

The climate can also be controlled individually for each room using stylish flush mounting thermostats or by means of intuitive timer-thermostats installed in the various rooms.
The internal sensor calibration function guarantees high-precision temperature control and outstanding levels of comfort. Moreover, when connected to an electronic humidity sensor, the devices display the humidity level in the environment.

Setting hour by hour.

With the stand-alone timer-thermostats, the temperature can be set in both manual and timer mode, with weekly settings for each room.

For all types of building.

The devices can be installed in any kind of heat control system: underfloor heating, radiators, fan-coils, split/multisplit systems; both in On/Off and proportional control mode, with both 2 and 4 pipes with neutral zone.

Typical system: 80 m² apartment with devices for temperature control and energy monitoring via touchscreen timer thermostats.

Thermostats and timer-thermostats with intuitive controls and highly sensitive capacitative touchscreen displays are used to control the temperature easily and completely, displaying consumption and helping energy savings using energy meters for DIN rails and system operation hour metering. The example illustrates a traditional temperature control system (with zone valves and a condensation boiler), which also has a photovoltaic system producing renewable electricity.

- Three 02955.B 3-module touchscreen timer thermostats are installed, connected to three 02960 energy measuring modules that measure the energy produced by the photovoltaic panels, the energy consumed by the appliances and electrical loads connected to the same line as well as the energy exchanged with the mains for operating the system.
- The values of instantaneous power and cumulative energy (and the voltage values) are shown individually on the displays of the touchscreen timer thermostats in the living room, in the kitchen and on the electrical cabinet; the timer thermostat in the kitchen can also have an acoustic warning enabled that on exceeding the contractual power usage threshold warns the user about the exchange meter probably cutting off power due to excess draw from the mains. All the devices are provided with the **Ecometer function** that ensures a more rational use of energy in the building for greater energy and economics savings.
- A touchscreen thermostat 02950.B is installed in the bedroom, connected to an 19432.B NTC probe for measuring the bathroom temperature.
- In one of the bedrooms there is a second electronic touchscreen thermostat (02950.B) connected to the NTC wire sensor 02965.1 for measuring the external temperature.
- A control in the entrance enables, via the configurable multifunction inputs of the devices, centralized control of the set-points of the various zones (switching on in comfort mode or nighttime reduction).

Touchscreen electronic timer-thermostat with **Ecometer** function; it enables viewing the energy produced.

Power meter with built-in current sensor.

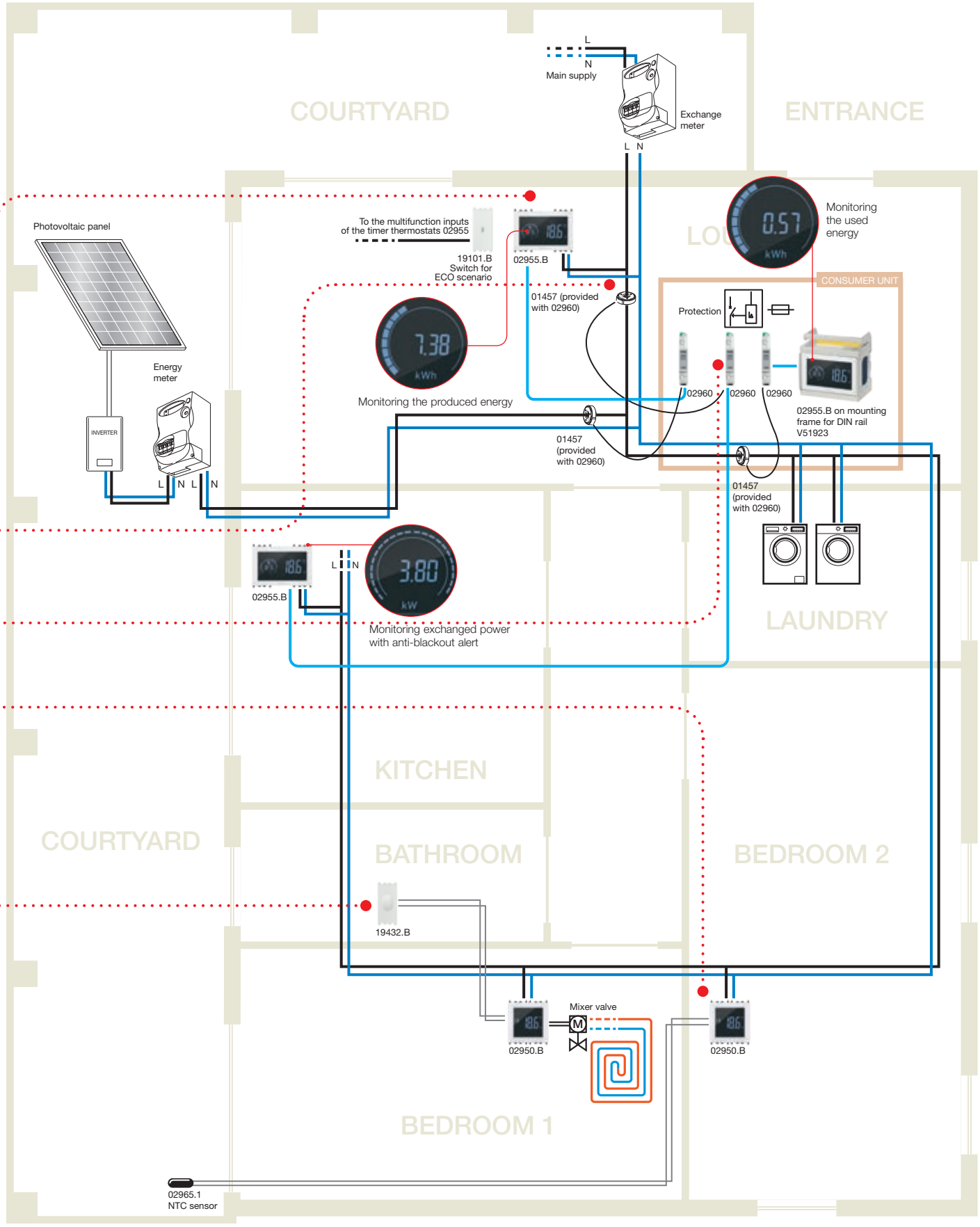
Touchscreen electronic thermostat; it enables viewing also the temperature measured by the sensor installed in another room.

Electronic temperature sensor.

How to do it:

Visit the website www.vimar.com, section “Support / Video tutorials / HVAC”, to watch the video tutorial:
“3-module flush mounting touch timer-thermostat Code 02955 - Climate Control”;
“3-module flush-mounting touch timer-thermostat Code 02955 - Supplementary Functions”;
“3-module flush mounting touch timer-thermostat Code 02955 - Energy Management”.

Typical system: 80 m² apartment with devices for temperature control and energy monitoring via touchscreen timer thermostats.



Typical system: school with temperature control devices for activating zone valves and electronic temperature and humidity sensors interfaced with the water temperature control system.

This example illustrates a temperature control system in a school with the possibility of centralized control of the various areas of the building through the zone thermostats with relay output.
The colour backlit capacitive touchscreen thermostats allow **heating/air-conditioning control** with **On/Off** or **PID** actuation. They are equipped with **a multi-function input** that can be configured to activate nighttime reduction mode or control with comfort set-point or to reverse the summer/winter operating mode; they are provided with an external temperature electronic sensor input.

- The touchscreen thermostats (art. 02950) are installed in the administration office, classrooms, multimedia room and library. All the devices in the common areas can be locked by a PIN: in this way, students can be prevented from accessing device configuration, the operating mode and the temperature range that can be set via the user interface is limited.
- In addition, in the administration office, it is connected to a centralized On/Off control (art. 20101) for general manual shutdown of the system when closing the school or for activating nighttime reduction after class for energy savings. Alternatively a programmable time switch (art. 20448) could be installed for programming the operating times/nighttime reduction.
- In the corridor, bathroom or library there are electronic temperature sensors (art. 20432) and electronic humidity sensors (art. 20433) that, interfaced with the plumbing system, enable keeping the environmental parameters under control.

Touchscreen electronic thermostat and centralized button for activating temperature control in comfort mode.

Electronic temperature sensor.

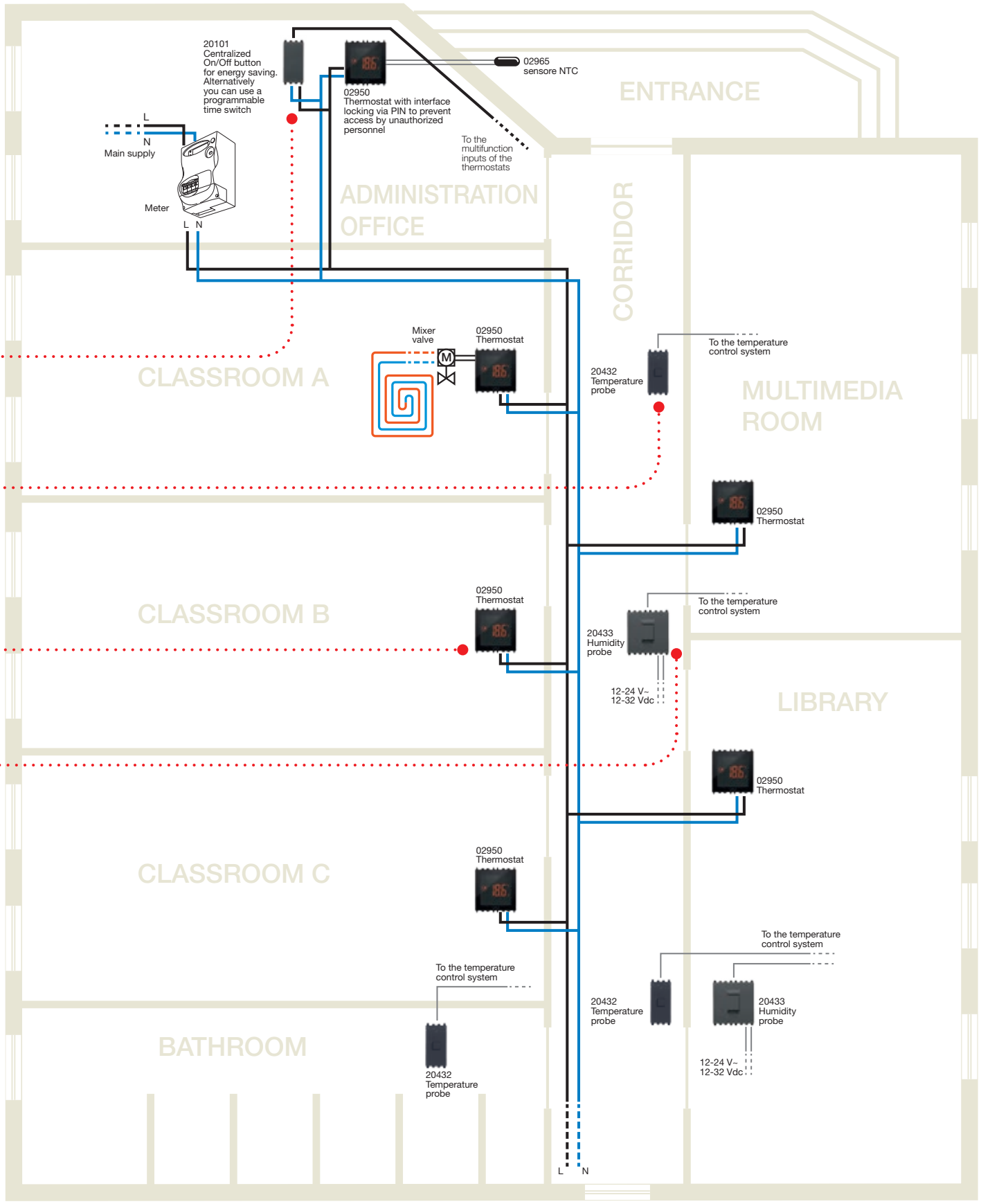
Touchscreen electronic thermostat; it enables viewing also the temperature measured by the sensor installed in another room.

Electronic active humidity sensor.

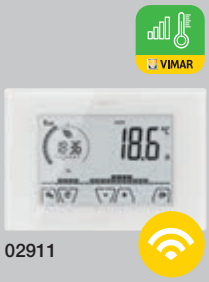
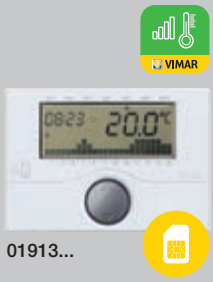
How to do it:

Visit the website www.vimar.com, section “Support / Video tutorials / HVAC”, to watch the video tutorial:
“2-module flush mounting touch thermostat Code 02950”.

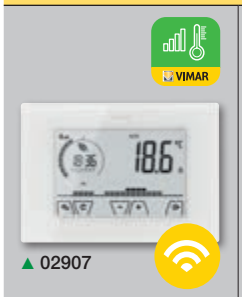
Typical system: school with temperature control devices for activating zone valves and electronic temperature and humidity sensors interfaced with the water temperature control system.



Functions comparative table.

	Surface mounting timer-thermostat				
	 02911	 01913...	 02910	 01911	 01910
Type	Timer-thermostat **Wi-Fi**	Timer-thermostat **GSM**	Touch timer-thermostat	Sliding timer-thermostat	Digit-timer-thermostat
Supply voltage	230 V, 50/60 Hz	230 V, 50/60 Hz with backup battery	3 V battery AA LR6 1,5 V (not supplied)	3 V battery AA LR6 1,5 V (not supplied)	3 V battery AA LR6 1,5 V (not supplied)
Control	On/Off and PID	On/Off	On/Off and PID	On/Off	On/Off
Energy class	I	I	I in On/Off IV in PID	I	I
Contribution	1%	1%	1% in On/Off 2% in PID	1%	1%
Display	Capacitive	LCD		LCD	LCD
Backlighting	White				
Hot keys	YES (output)		YES (output)		
Protected mode	YES (PIN)	YES	YES (PIN)	YES (PIN)	
Ecometer	YES		YES		
Off-set T°	YES		YES		
Configurable sensor input	Limitation visualisation adjustment				
Auxiliary inputs/outputs		1 alarm signal input 1 auxiliary relay output	1 configurable input for: Nighttime reduction, Remote activation, Summer/Winter		1 input for remote activation
Special functions			Energy monitor with module 02915 (optional)	RF transmission with 01921.1 (optional)	RF transmission with 01921.1 (optional)
Audio feedback	YES				
Configuration	YES: remotely with By-clima App via Wi-Fi	YES: remotely with By-clima App via GSM			
Control connectivity	YES: remotely with via Cloud	YES: remotely with By-clima App via GSM			
Installation	Surface	Surface	Surface	Surface	Surface

Functions comparative table.

Surface mounting thermostat				Flush mounting timer-thermostat and thermostat	
 ▲ 02907	 02906	 02905	 02900.1	 02955...	 02950...
Thermostat **Wi-Fi**	Thermostat **GSM**	Touch thermostat	Electronic thermostat	Touch timer-thermostat	Touch thermostat
230 V, 50/60 Hz	230 V, 50/60 Hz	3 V battery AA LR6 1,5 V (not supplied)	3 V battery AA LR6 1,5 V (not supplied)	120/220 V 50/60 Hz	120/220 V 50/60 Hz
On/Off and PID	On/Off and PID	On/Off and PID	On/Off	On/Off and PID	On/Off and PID
I in On/Off IV in PID	I in On/Off IV in PID	I in On/Off IV in PID	I	I in On/Off IV in PID	I in On/Off IV in PID
1% in On/Off 2% in PID	1% in On/Off 2% in PID	1% in On/Off 2% in PID	1%	1% in On/Off 2% in PID	1% in On/Off 2% in PID
Capacitive	Capacitive	Capacitive		Capacitive	Capacitive
White	White			RGB	RGB
YES (output)	YES (eco/output)	YES (output)	YES (eco)	YES (output)	YES (eco/output)
YES (PIN)	YES (PIN)	YES (PIN)		YES (PIN)	YES (PIN)
YES	YES	YES		YES (color)	YES (color)
YES	YES	YES		YES	YES
Limitation visualisation adjustment	Limitation visualisation adjustment			Limitation visualisation adjustment	Limitation visualisation adjustment
		1 configurable input for: Nighttime reduction, Remote activation, Summer/Winter		1 configurable input for: Nighttime reduction, Remote activation, Summer/Winter	1 configurable input for: Nighttime reduction, Remote activation, Summer/Winter
				Built-in energy monitor (RS485)	Built-in energy monitor (RS485)
		YES (with 02915)		YES	
YES: remotely with By-clima App via Wi-Fi	YES: remotely with By-clima App via GSM			YES: with By-clima App via audio	
YES: remotely with via Cloud	YES: remotely with By-clima App via GSM				
Surface	Surface	Surface	Surface	Flush, with Eikon, Arké, Plana and Idea	Flush, with Eikon, Arké, Plana and Idea

Surface mounting timer-thermostats and thermostats

App By-clima**

02911
ClimaChrono touch screen timer-thermostat for local or remote control (with dedicated app) of temperature (heating and air-conditioning) in ON/OFF and PID mode, **Wi-Fi module** for IP connection, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, change-over relay output 5(2) A 230 V~, 230 V~ 50/60 Hz, white LED backlighting, surface mounting, white. Dimensions: 135x95x25,1 mm

02910
ClimaChrono touch screen timer-thermostat for ambient temperature control (heating and air-conditioning), designed to display energy data via an energy meter, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 programmable multifunction input, 5(2) A 230 V~ change-over relay output, AA LR6 1,5 V battery-powered (not supplied), surface mounting, white.
Dimensions: 135x95x25,1 mm

01911
ClimaPiù sliding timer-thermostat for ON/OFF ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%), change-over relay output 5(2) A 250 V~, AA LR6 1,5 V battery-powered (not supplied), surface mounting, white.
Dimensions: 131,85x89,9x32,1 mm

App By-clima**

01913
ClimaPhone timer-thermostat for local or remote ON/OFF control (via SMS or dedicated app) of the ambient temperature (heating and air-conditioning) with built-in GSM phone dialler, daily/weekly programming, class I temperature control device (contribution 1%), change-over relay output 5(2) A 230 V~, an additional output and a digital input, 120-230 V~, surface mounting, white.
Dimensions: 130x90x35,5 mm

App By-clima**

01913.14
ClimaPhone timer-thermostat for local or remote ON/OFF control (via SMS or dedicated app) of the ambient temperature (heating and air-conditioning) with built-in GSM phone dialler, daily/weekly programming, class I temperature control device (contribution 1%), change-over relay output 5(2) A 230 V~, an additional output and a digital input, 120-230 V~, surface mounting, anthracite grey.
Dimensions: 130x90x35,5 mm

01910
ClimaRadio timer-thermostat for ON/OFF ambient temperature control (heating and air-conditioning), daily/weekly programming, class I temperature control device (contribution 1%), change-over relay output 5(2) A 250 V~, AA LR6 1,5 V battery-powered (not supplied), surface mounting, white.
Dimensions: 130x90x22 mm

01910.14
ClimaRadio timer-thermostat for ON/OFF ambient temperature control (heating and air-conditioning), daily/weekly programming, class I temperature control device (contribution 1%), change-over relay output 5(2) A 250 V~, AA LR6 1,5 V battery-powered (not supplied), surface mounting, anthracite grey.
Dimensions: 130x90x22 mm

01910.20
ClimaRadio timer-thermostat for ON/OFF ambient temperature control (heating and air-conditioning), daily/weekly programming, class I temperature control device (contribution 1%), change-over relay output 5(2) A 250 V~, AA LR6 1,5 V battery-powered (not supplied), surface mounting, Silver.
Dimensions: 130x90x22 mm

App By-clima**

▲ 02907
ClimaThermo Wi-Fi touch screen thermostat for local or remote control (with dedicated app) of temperature (heating and air-conditioning)) in ON/OFF and PID modes, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, change-over relay output 5(2) A 230 V~, 230 V~ 50/60 Hz, white LED backlighting, surface mounting, white. Dimensions: 135x95x25,2 mm

App By-clima**

02906
ClimaThermo touch screen thermostat with built-in GSM for local or remote control (with dedicated app) of ambient temperature (heating and air-conditioning), class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, change-over relay output 5(2) A 230 V~, 230 V~ 50/60 Hz, white LED backlighting, surface mounting, white. Dimensions: 135x95x25,1 mm

02905
ClimaThermo touch screen thermostat for ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 programmable multifunction input, change-over relay output 5(2) A 230 V~, 2 AA LR6 1,5 V battery-powered (not supplied), surface mounting, white.
Dimensions: 135x95x21 mm

02900.1
Clima thermostat for ON/OFF ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%), change-over relay output 5(2) A 240 V~, AA LR6 1,5 V battery-powered (not supplied), surface mounting, white. Dimensions: 132x87x27 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Flush mounting timer-thermostats

App By-clima**

02955

Touch screen timer-thermostat for ambient temperature control (heating and air-conditioning), locally programmable via dedicated app, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 1 RJ9 input for energy meter, change-over relay output 5(2) A 230 V~, power supply 120-230 V~ 50/60 Hz, RGB LED backlighting, black - 3 modules. To be completed with Eikon, Arké, Idea or Plana cover plates. Depth: 35,3 mm

App By-clima**

02955.B

Touch screen timer-thermostat for ambient temperature control (heating and air-conditioning), locally programmable via dedicated app, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 1 RJ9 input for energy meter, change-over relay output 5(2) A 230 V~, power supply 120-230 V~ 50/60 Hz, RGB LED backlighting, white - 3 modules. To be completed with Eikon, Arké, Idea or Plana cover plates. Depth: 35,3 mm

App By-clima**

02955.BN

Touch screen timer-thermostat for ambient temperature control (heating and air-conditioning), locally programmable via dedicated app, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 1 RJ9 input for energy meter, change-over relay output 5(2) A 230 V~, power supply 120-230 V~ 50/60 Hz, RGB LED backlighting, neutral - 3 modules. To be completed with Eikon, Arké, Idea or Plana cover plates. Depth: 35,3 mm

16990

Timer-thermostat kit containing:
- 1 electronic timer-thermostat 19446 for ON/OFF ambient temperature control (heating and air-conditioning), daily/weekly programming, input for remote switching on/off via telephone dialler, change-over relay output 5(2) A 250 V~, powered by AA LR6 1.5 V batteries (included), grey;
- 1 3-module mounting frame 16723.

To be completed with a 3-module Idea cover plate

16992

Timer-thermostat kit containing:
- 1 touch screen timer-thermostat 02955 for ON/OFF and PID temperature control (heating and air-conditioning), 1 input for external temperature sensor, 1 programmable multi-function input, 1 RJ9 input for energy meter, change-over relay output 5(2) A 230 V~, 120-230 V~ 50-60 Hz, RGB LED backlighting;
- 1 3-module mounting frame 16723.

To be completed with a 3-module Idea cover plate

** App available on Vimar site and Apple and Google Play store.

EIKON

Flush mounting timer-thermostats

20445
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 6(2) A 230 V~change-over relay output, grey
- 2 modules.
Depth: 37 mm

20445.B
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 6(2) A 230 V~change-over relay output, white
- 2 modules.
Depth: 37 mm

20445.N
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 6(2) A 230 V~change-over relay output, Next
- 2 modules.
Depth: 37 mm

20446
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, grey
- 3 modules. Depth: 43 mm

20446.B
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, white
- 3 modules. Depth: 43 mm

20446.N
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, Next
- 3 modules. Depth: 43 mm

ARKÉ

19446
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, grey
- 3 modules. Depth: 42,5 mm

19446.B
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, white
- 3 modules. Depth: 42,5 mm

19446.M
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, Metal
- 3 modules. Depth: 42,5 mm

PLANA

14445
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 6(2) A 230 V~change-over relay output, white
- 2 modules.
Depth: 36 mm

14445.SL
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 6(2) A 230 V~change-over relay output, Silver
- 2 modules.
Depth: 36 mm

14446
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, white
- 3 modules. Depth: 43 mm

14446.SL
ON/OFF (class I, contribution 1%), input for remote switching of phone dialler on/off, 5(2) A 250 V~ change-over relay output, AA LR6 1,5 V battery-powered, Silver
- 3 modules. Depth: 43 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

ARKÉ

PLANA

Flush mounting thermostats

02950
Touch screen thermostat for ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 5(2) A 230 V~ change-over relay output, 120-230 V~ 50/60 Hz, RGB LED backlighting, black - 2 modules.
To be completed with Eikon, Arké, Idea or Plana cover plates.
Depth: 38,5 mm

02950.B
Touch screen thermostat for ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 5(2) A 230 V~ change-over relay output, 120-230 V~ 50/60 Hz, RGB LED backlighting, white - 2 modules.
To be completed with Eikon, Arké, Idea or Plana cover plates.
Depth: 38,5 mm

02950.BN
Touch screen thermostat for ambient temperature control (heating and air-conditioning), class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for external temperature sensor, 1 programmable multifunction input, 5(2) A 230 V~ change-over relay output, 120-230 V~ 50/60 Hz, RGB LED backlighting, neutral - 2 modules.
To be completed with Eikon, Arké, Idea or Plana cover plates.
Depth: 38,5 mm

16991
Thermostat kit containing:
- 1 touch screen thermostat 02950 for ON/OFF and PID temperature control (heating and air-conditioning), 1 input for external temperature sensor, 1 programmable multi-function input, 5(2) A 230 V~ change-over relay output, 120-230 V~ 50-60 Hz, RGB LED backlighting;
- 1 blank module 19041;
- 1 3-module mounting frame 16723.

To be completed with a 3-module Idea cover plate

19440
ON/OFF (class I, contribution 1%), input for remote activation of energy-saving function, 6(2) A 230 V~ change-over relay output, grey - 2 modules.
Depth: 37 mm

19440.B
ON/OFF (class I, contribution 1%), input for remote activation of energy-saving function, 6(2) A 230 V~ change-over relay output, white - 2 modules.
Depth: 37 mm

19440.M
ON/OFF (class I, contribution 1%), input for remote activation of energy-saving function, 6(2) A 230 V~ change-over relay output, Metal - 2 modules.
Depth: 37 mm

14440
ON/OFF (class I, contribution 1%), input for remote activation of energy-saving function, 6(2) A 230 V~ change-over relay output, white - 2 modules.
Depth: 36 mm

14440.SL
ON/OFF (class I, contribution 1%), input for remote activation of energy-saving function, 6(2) A 230 V~ change-over relay output, Silver - 2 modules.
Depth: 36 mm

EIKON

Flush mountin switches for fan-coil

20095
Slide switch, 1P 6(2) A 250 V~, 4-position, grey
Depth: 40 mm

20095.B
Slide switch, 1P 6(2) A 250 V~, 4-position, white
Depth: 40 mm

20095.N
Slide switch, 1P 6(2) A 250 V~, 4-position, Next
Depth: 40 mm

20096
Rotary switch, 1P 6(3) A 250 V~, 4-position, grey - 2 modules.
Depth: 37 mm

20096.B
Rotary switch, 1P 6(3) A 250 V~, 4-position, white - 2 modules.
Depth: 37 mm

20096.N
Rotary switch, 1P 6(3) A 250 V~, 4-position, Next - 2 modules.
Depth: 37 mm

Flush mounting electronic sensors

20432
Electronic temperature sensor, grey.
Depth: 24,4 mm

20432.B
Electronic temperature sensor, white.
Depth: 24,4 mm

20432.N
Electronic temperature sensor, Next.
Depth: 24,4 mm

20433
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, grey - 2 modules
Depth: 37 mm

20433.B
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, white - 2 modules
Depth: 37 mm

20433.N
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, Next - 2 modules
Depth: 37 mm

ARKÉ

Flush mountin switches for fan-coil

19095
Slide switch, 1P 6(2) A 250 V~, 4-position, grey
Depth: 39,5 mm

19095.B
Slide switch, 1P 6(2) A 250 V~, 4-position, white
Depth: 39,5 mm

19095.M
Slide switch, 1P 6(2) A 250 V~, 4-position, Metal
Depth: 39,5 mm

Flush mounting electronic sensors

19432
Electronic temperature sensor, grey.
Depth: 24,4 mm

19432.B
Electronic temperature sensor, white.
Depth: 24,4 mm

19432.M
Electronic temperature sensor, Metal.
Depth: 24,4 mm

19433
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, grey - 2 modules
Depth: 37 mm

19433.B
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, white - 2 modules
Depth: 37 mm

19433.M
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, Metal - 2 modules
Depth: 37 mm

IDEA

Flush mountin switches for fan-coil

16558
Slide switch, 1P 6(2) A 250 V~, 4-position, grey
Depth: 27,5 mm

16558.B
Slide switch, 1P 6(2) A 250 V~, 4-position, white
Depth: 27,5 mm

PLANA

Flush mountin switches for fan-coil

14095
Slide switch, 1P 6(2) A 250 V~, 4-position, white
Depth: 39 mm

14095.SL
Slide switch, 1P 6(2) A 250 V~, 4-position, Silver
Depth: 39 mm

Flush mounting electronic sensors

14432
Electronic temperature sensor, white.
Depth: 23,4 mm

14432.SL
Electronic temperature sensor, Silver.
Depth: 23,4 mm

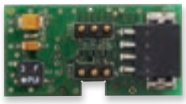
14433
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, white - 2 modules
Depth: 36 mm

14433.SL
Electronic humidity sensor 12/24 V, 1 0-10 V or 4-20 mA output, Silver - 2 modules
Depth: 36 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Additional devices

02965.1
Temperature sensor, NTC 10 kΩ, operating temperature -40 °C / +120 °C, IP67, 3 m cable length



02915
Energy meter interfacing module, 3 toroidal sensor inputs, 1 serial data input

01921.1
RF transmitter module with spring-terminals connector

Devices for DIN rail (60715 TH35) installation

01923
1-channel radiofrequency actuator-receiver, 6 x 17,5 mm modules

01924
4-channel radiofrequency actuator-receiver, 6 x 17,5 mm modules

02960
Power meter, 3 inputs for toroidal current sensor 01457, 50 W-10 kW detectable power, 1 RJ9 serial data output, 1 x 17,5 mm module.
Supplied with a toroidal current sensor 01457

SMART PRODUCTS.

Devices that are quick to install and easy to use.

Smart solutions designed to increase the functions of conventional systems, minimising the work and labour required, like the **radio frequency controls** which require no electrical power supply or batteries, and can be installed anywhere without no need for any masonry works. Or the **surface-mounting thermostats** and **timer-thermostats** with **GSM** technology and **Wi-Fi** which can easily be managed from a smartphone. The more advanced models can also display the electricity consumption of the home using energy meters installed in the electrical system. Or the **stand-alone sound system** that uses Bluetooth® technology to play music anywhere in the home from a mobile device, or the **Wi-Fi access point** that can be used to improve building connectivity.

Radio frequency controls.

Requiring no power supply or batteries, they can be mounted on any surface, even wood or glass.
They work perfectly with the products of the major players in both the professional and consumer sectors that have adopted the Bluetooth standard (Casambi and Xicato|Galaxy technologies) or EnOcean or Zigbee standard (Philips Hue system). The signal is transmitted by radio to a driver, actuator or gateway, without any wiring or masonry work as there is no need for flush mounting boxes. Ideal for renovations, redevelopments and updates, or any installations subject to regulatory or architectural constraints.

enocean

control with **EnOcean®** protocol compatible with:

- products using EnOcean or EnOcean Equipment Profile (EEP) technology F6 02 01 (**art. 03955**).

zigbee certified product

control with **Zigbee®** protocol compatible with:

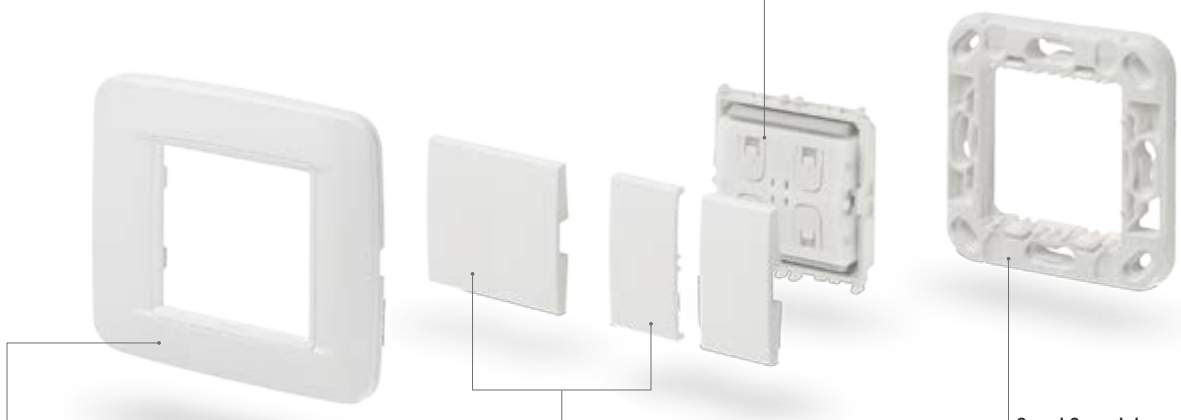
- Philips **Hue** lamps (**art. 03906**);
- Philips **EasyAir** sensors (**art. 03905**).

Friends of hue

Bluetooth®

control with ***Bluetooth® Low Energy*** wireless technology compatible with:

- lamps and systems based on Casambi technology and Bluetooth Open Standard technology from the Xicato|GalaXi system displaying the logo “Works with Xicato GalaXi” (**art. 03925**).



A broad range of materials, colours and surfaces.

If you need to match the radio frequency controls to the style of your home, choose the elegant and sophisticated forms of Eikon, the modern design of Arké or the essential and rigorous style of Plana.

Neutral customisable keys.

1 or 2 module customisable keys with pictograms to identify their function.

To control Hue lamps use 1 module keys.

2 and 3 module mounting frames.

Flat mounting frames that can be fixed to the wall with screws or double-sided tape.

The advantages.

Flat control.

Flat control with 4 push buttons and radio frequency transmitter without batteries, power supply from the built-in electro-dynamic generator, to be completed with the dedicated keys Eikon 20506..., Arké 19506... or Plana 14506... and relative cover plates.

Radio frequency, wireless.

The signal is transmitted via radio to the driver, actuator or bridge, with no need for cable connections.
The working frequency (very low power emitted when the button is pressed) for EnOcean is 868 MHz, and for ZigBee and Bluetooth it is 2.4 GHz.

Battery-free.

It is self-powered by the energy produced when pressing the keys, with no need for batteries. Periodic maintenance to change the batteries is therefore not required, thus avoiding their disposal and respecting the environment.

Four push buttons.

Each control consists of 4 push buttons which can be configured individually or in pairs according to the features of the associated receivers. Simply press the keys to switch On/Off, adjust the light brightness or call up coloured or monochrome lighting scenarios.

Lighting scenarios

The lighting scenarios and behaviour of each key can easily be managed from a smartphone to: call up scenarios, switch the lights on and off, adjust the brightness or change the colour of RGB lamps. These functions can all be configured via the control app of the manufacturers of any lamps that are compatible with the different technologies.

Aesthetic coordination

The technological core of the control is a radio frequency module that can be installed on mounting brackets and finished with cover plates from the Eikon, Arké and Plana series, making it suitable for any architectural space.

Versatile installation.

The radio frequency control can be placed on any surface, such as glass, wood or on the wall, and the system can be expanded up to 15 control devices. The wide range of colours and materials of the cover plates make it possible to match the lighting point to any wall on which it is installed.

Also ideal for renovations: it can be installed without masonry work.

It is extremely easy to install, with no need to break down or repaint walls. It can be quickly applied to the wall, since it does not require flush mounting boxes. It is the ideal solution for moving switches in case of partial renovations.

Friends of Hue

The technological expertise and impeccable design of Vimar are now teaming up with wireless technology for the smart control of Philips Hue lamps. The new controls are based on an Energy Harvesting technological motor and guarantee full control over wireless lamps via the Philips HUE Bridge (vers. 2.0), fully respecting the environment as they are battery-free.

Wi-Fi access point, for extending the network signal to areas with poor coverage.

The simplest solution for extending your Internet connection throughout your home, even to areas that are not reached by the Wi-Fi router signal or where the signal is weaker, providing coverage for all the environments thanks to a stylish product integrated into the series. Indeed, the new 2-module Wi-Fi access point is designed to support data exchange in both wireless networks and copper and fiber optic cabled networks. Moreover, thanks to the front push button or a conventional remote push button connected to the rear terminals, the signal can be deactivated at any time when not needed or at night, to reduce electromagnetic waves and power consumption.

More coverage

Extends WLAN coverage to all rooms, even covering areas that are not reached by the Wi-Fi router. Ideal for retrofitting existing systems: all that is required is a round mounting box or 3 modules with a socket outlet, which will need replacing.

Switch function

In addition to Wi-Fi connectivity, the device also has a double Ethernet cable port on the back, for extending the LAN network.

Aesthetic coordination

The new access point, complete with front push button for disabling the internal Wi-Fi module, is available for the Eikon, Arké and Plana series in matching colour finishes to complement any interior décor style.

Applications

Whether in an apartment with a traditional or connected system, or for bringing smart connectivity to hotels or offices, the new access point is the ideal product for transmitting data and connecting to the Internet.

Stand-alone speaker system.

Bluetooth®

Thanks to Bluetooth® technology, mini stand-alone systems can be created quickly and simply. This simple solution requires a Bluetooth receiver with integrated amplifier, a pair of speakers and a power supply. Your smartphone connects automatically so you can listen to your favourite music in the room. Other sound sources, such as the TV, can also be connected to the amplifier via cable. The ideal solution for all applications, from residential settings to small service industry companies such as hotels.

Typical system: 90 m² apartment with standard Zigbee Green Power Friends of Hue radio frequency controls for Philips Hue lighting control.

The agreement, which saw Vimar join the Friends of Hue programme (launched to extend the Philips Hue ecosystem and include more options for consumers when it comes to controlling their smart lights) resulted in these new Vimar controls which, based on an Energy Harvesting technological motor, guarantee full control over the wireless Philips Hue lamps.
The Vimar controls blend perfectly with the wireless technology for the smart control of Philips Hue lamps, and are coordinated with the Eikon, Arké and Plana series to ensure full customisation of shapes, materials and colours, providing solutions to match any residential context.
An ideal solution for renovations, redevelopments and furnishing updates, or any installations with regulatory or architectural constraints.

The advantages of using Vimar devices with **Zigbee Green Power and Friends of Hue technology**:
- no radio interference in reception or in transmission, thanks to the robust protocol and low electromagnetic emissions (the lowest of all the radio technologies currently available on the market);
- no maintenance is required on the controls to replace the batteries: the controls work without batteries, using the energy generated by pressing the key;
- it can be used to control the devices of the Philips Hue ecosystem. Using the Hue Bridge v2 protocol (square shape), the devices can be used to switch a lamp on or off, adjust its brightness, and activate scenarios involving several lamps.
- aesthetic coordination of the controls with Eikon, Arké and Plana;
- installation on smooth surfaces with the special mounting frames, or in flush mounting boxes on standard mounting frames.

The example shows the installation of wireless devices with Plana keys in an apartment where Philips Hue lamps and controls 03906 are installed:
- in the lounge the control 03906 is used to switch the Philips Hue lamp near the entrance on and off and to activate the "Relax" and "Dinner" scenarios involving the two lamps in the living area;
- a Philips Hue lamp in the kitchen is controlled by the device 03906;
- the controls 03906 are fitted in the two bedrooms, switching the two lamps on and off and adjusting their brightness and colour.

The dialogue with compatible devices is configured using the Philips Hue app that can be downloaded free of charge from App stores.

BATTERY-FREE

Plana control: press the left key to switch the lamp in the lounge on/off, press the right key to switch on and off the Relax/ Dinner scenarios which also involve the lamp in the kitchen.

Plana control: press the left key to switch the lamp in the bedroom on/off, press the right key to adjust the brightness.

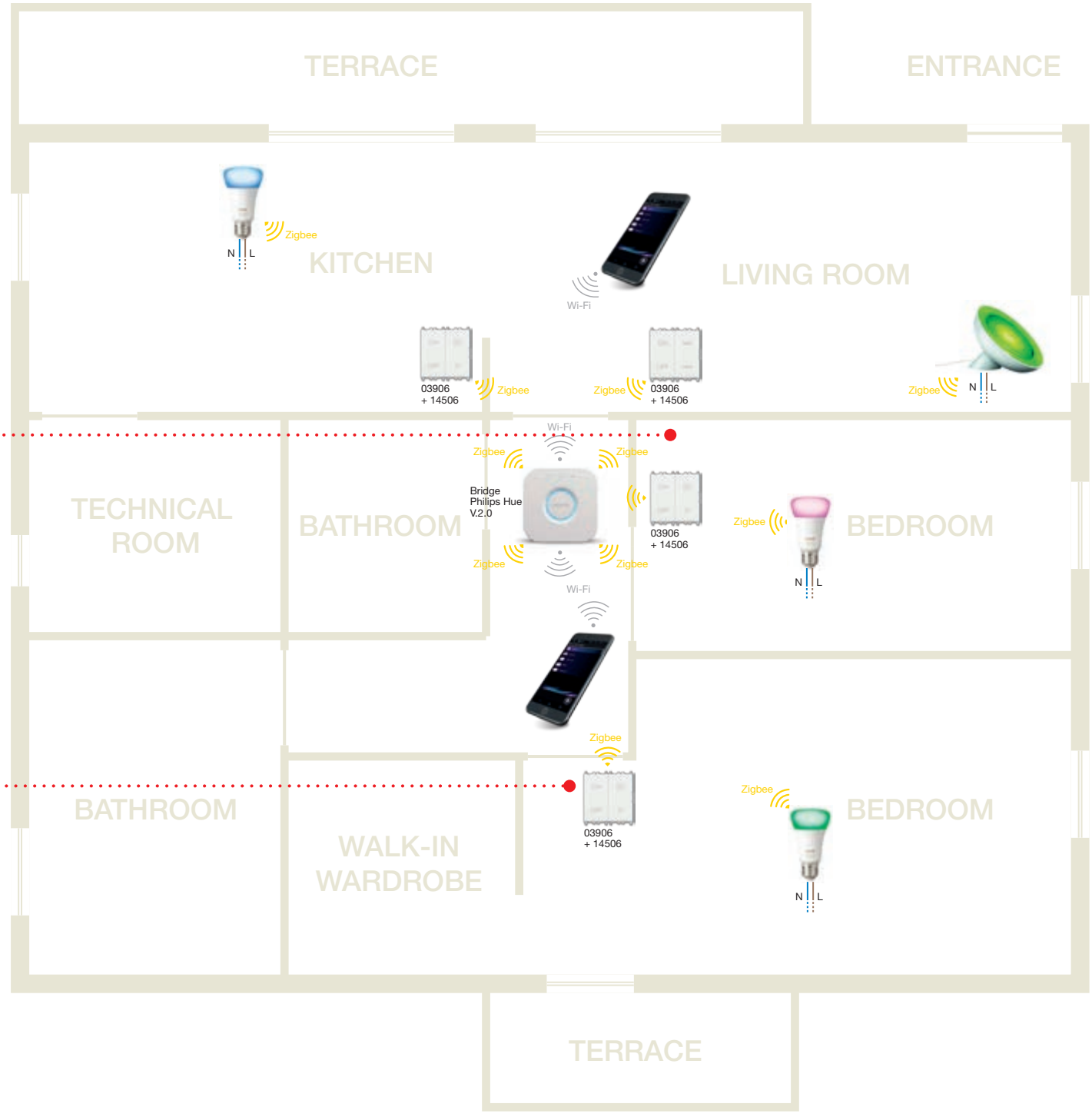
What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: 90 m² apartment with standard Zigbee Green Power Friends of Hue radio frequency controls for Philips Hue lighting control.

zigbee

Friends of hue personal wireless lighting



Power supply 230 V~

Typical system: 90 m² apartment with EnOcean radio frequency controls for controlling lights.

The **EnOcean** radio frequency devices are ideal for adding control and actuation functions to new or existing systems, with no need for any masonry work.
In **new systems**, for applications on materials that would make installation difficult, if not impossible, with flush mounting boxes (glass, wood, reinforced concrete) or on structures that have to be left intact in order to maintain the thermal insulation required in modern buildings.
In **existing systems**, due to lack of arrangements or due to the architectural constraints of historic buildings.

Benefits offered by Vimar devices with **EnOcean technology**:
- no radio interference in reception or in transmission, thanks to the robust protocol and low electromagnetic emissions (the lowest of all the radio technologies currently available on the market);
- no maintenance is required on the controls to replace the batteries: the controls work without batteries, using the energy generated by pressing the key;
- each single control is designed to govern two different independent electrical loads;
- aesthetic coordination of the controls with Eikon, Arké and Plana;
- can be installed on smooth surfaces with the special mounting frames, or in flush mounting boxes on standard mounting frames;
- the actuator can also act as a repeater by receiving the signal from the control and transmitting it to a second actuator on which it is configured;
- the actuator can also work as a switch for a mixed wired and radio frequency system.

The example illustrates EnOcean devices installed in an apartment, where it is possible to switch loads On/Off, with 03955 controls and 01796.1 actuators:
- a single control at the entrance is used to manage the three lights in the living room, kitchen and hallway, thus creating Entry and Exit scenarios. In fact, the actuator in the living room is also configured as a signal repeater for the actuator in the kitchen, and this in turn, as a repeater for the actuator in the hallway;
- the Wi-Fi access point in the study is activated using a radio frequency control above the desk, while the flush-mounting one installed in the lounge is switched on or off from a clean contact push button;
- in the bedroom, the light is managed by two junction boxes, an inverter and an EnOcean radio frequency control integrated into the wired system;
- there is also a control installed in the bedroom, which communicates with the EnOcean actuator to activate the LED strip inside the walk-in wardrobe.

BATTERY-FREE

Eikon radio frequency control with Entry/ Exit scenario configuration.

Eikon radio frequency control for switching lounge lights On/Off and adjusting the brightness


Eikon radio frequency control for switching the Wi-Fi access point On/Off and light control.

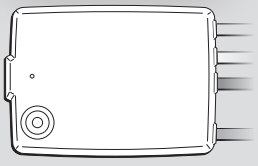
What to do:

Touch key (learning button). By pressing the touch key for 8 seconds, the actuator enters the learning phase and signals this condition by switching the relay output intermittently. When a key on the 20505 control is pressed, it is stored and the output stays active for a few seconds and then resumes switching; on pressing the touch key, or after about 15 seconds of inactivity, the actuator exits the learning phase.

Configuring the actuator as a repeater. Press the touch key for 15 seconds and then release it; select the repeater type (mode 2 or mode 3) by pressing the touch key again and confirm the setting by pressing the button for 5 seconds.

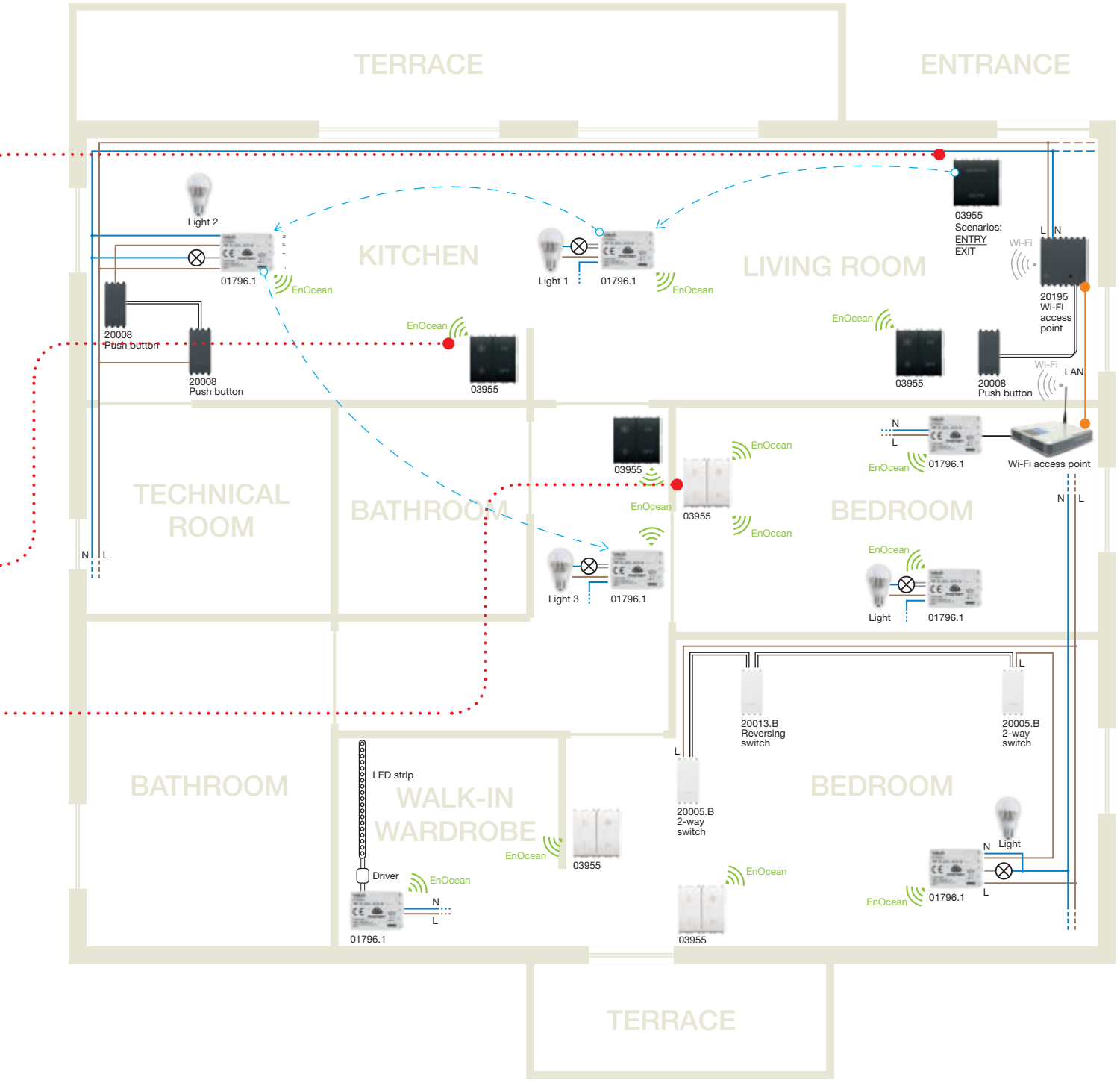
Memory deletion. Pressing the touch key for 12 seconds deletes all stored data and the actuator directly enters the learning phase (see previous point). The actuator with EnOcean module is able to receive the radio signal of a command sent by an EnOcean key (20505) and control the load connected to its relay output. If there is no mains power supply, the actuator keeps the previous configuration.

Actuator with EnOcean module, 1 relay.


Touch key on the back of the device.

Typical system: 90 m² apartment with EnOcean radio frequency controls for controlling lights.

enocean



Power supply 230 V~ Wired connection

Typical system: 80 m² shop with Bluetooth radio frequency controls for controlling lights.

The Bluetooth technology **radio frequency control** is able to send the signal using the energy generated by pressing the keys; therefore batteries, which would require replacement and disposal, are not needed.
Featuring minimal protrusion, the controls are coordinated with the design of the Eikon, Arké and Plana series, and go perfectly with the style of any environment. They are the ideal solution for those seeking practicality, freedom of installation and versatility: in fact, these devices can be placed almost anywhere, even on surfaces such as glass or wood.
All with no need for any masonry work, because they do not require flush mounting boxes.

The **Bluetooth technology control** communicates in radio frequency via the Bluetooth technology Low Energy protocol to all compatible devices on the market for residential and professional use, as in the case of lighting devices for stores and offices.

Once coupled to the drivers that manage the (indoor or outdoor) lamps, the functions “On/Off” and “Brightness control” (left key) and the possibility of retrieving two predefined lighting scenarios on the actuators/receivers (right button) are immediately available on the controls.

The controls can be completed with 1-module keys to exploit all of the functions available, or with 2-module keys, limiting control to just “On/Off” (and brightness control) or to the retrieval of two scenarios.

BATTERY-FREE

Bluetooth radio frequency control with 2 module Eikon key to control the lights in the two windows.

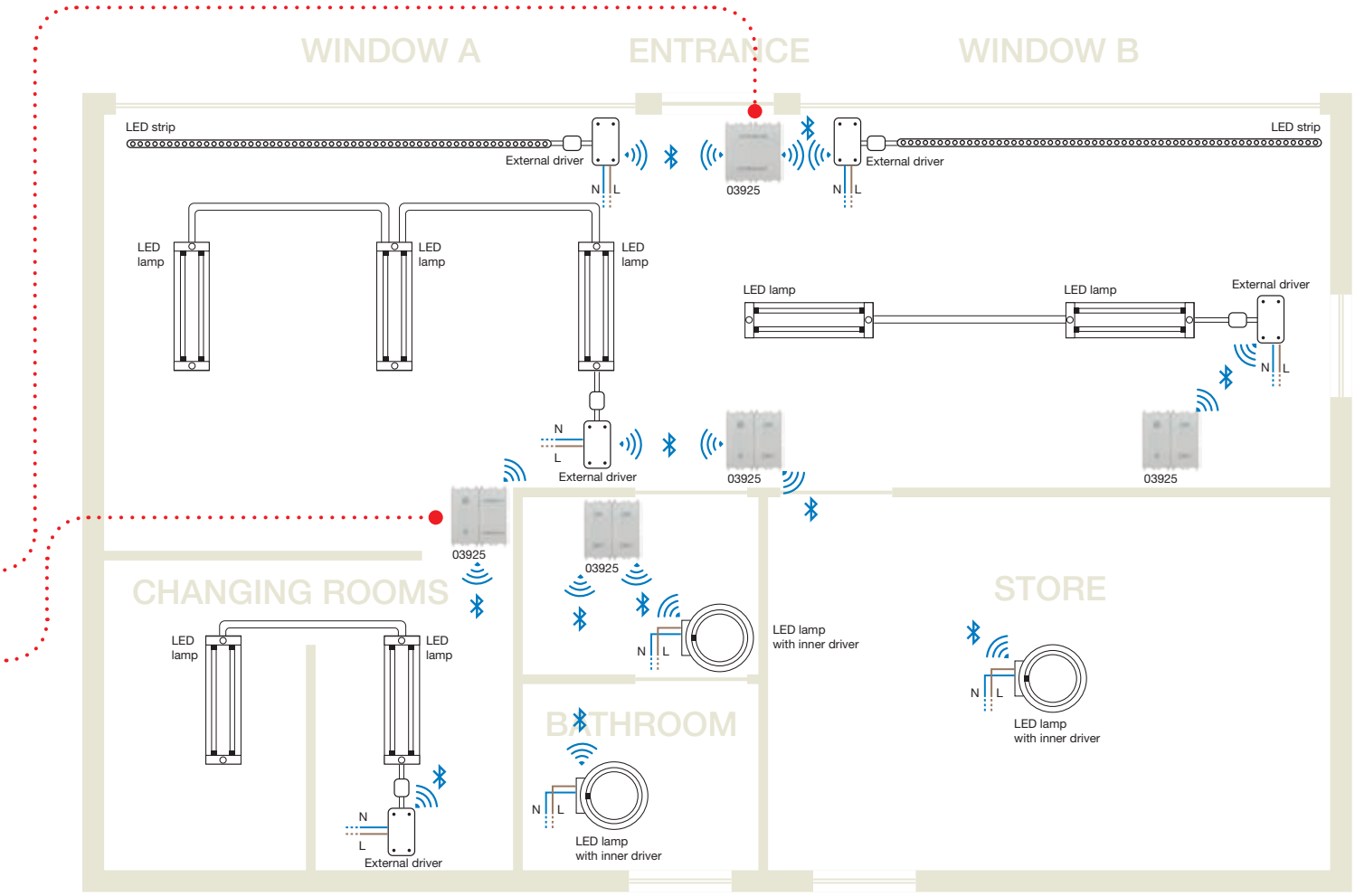
Bluetooth radio frequency control with 1-module Eikon key for controlling lights in the display area and activating scenarios.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: 80 m² shop with Bluetooth radio frequency controls for controlling lights.

Bluetooth®



Wired connection

Typical system: B&B with Wi-Fi internet connection in every room.

Vimar offers the easiest solution for bringing Internet connectivity to the whole facility, even where it doesn't reach or where the Wi-Fi router signal is weak, guaranteeing coverage in all the environments thanks to the flush-mounting Wi-Fi access point that supports data exchange in both wireless and copper or fiber optic networks.

The example shows a B&B with 6 guest rooms, a dining room and foyer/reception area.
The Wi-Fi router is installed in the reception, connected to the Internet, with flush-mounting Wi-Fi access points in all the rooms to guarantee the web connection via mobile devices (PC, tablet or smartphone) to guests.
The Wi-Fi access points (art. 14195) are connected to the main router via a LAN network and powered at 230 V~.
In the dining room the access point is not connected by cable to the LAN network, but only to the power supply, and acts as a repeater, taking the Wi-Fi signal directly from the router.

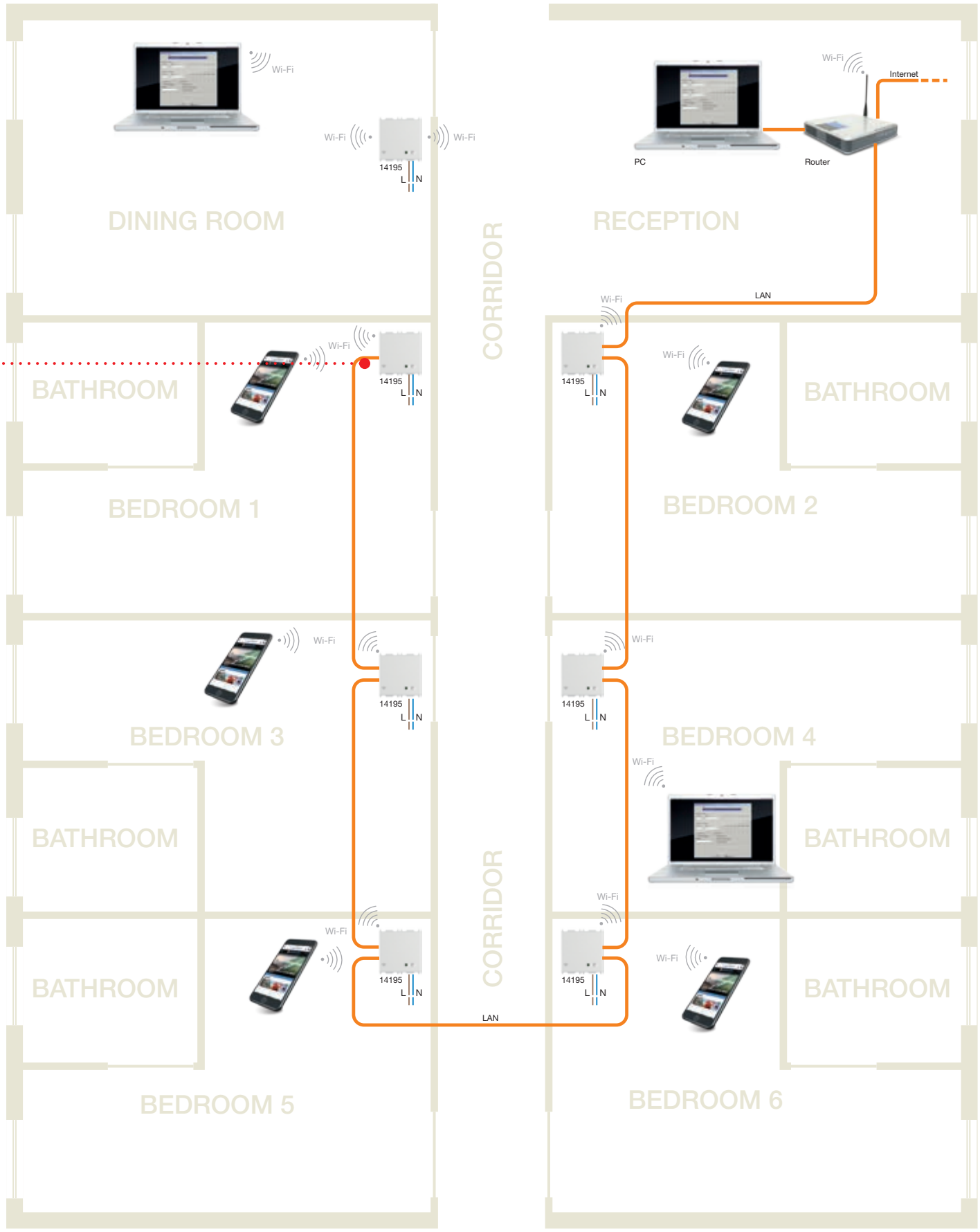
A front push button on the device is used to deactivate the signal, when not needed or at night, to reduce radiation and consumption.

Wi-Fi

What to do:

Visit the website www.vimar.com, section Download/Video/Products to view the video: **"Wi-Fi access point"**.

Typical system: B&B with Wi-Fi internet connection in every room.



The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual.

Typical system: 160 m² villa with stand-alone sound system.

Thanks to Bluetooth® technology, mini stand-alone systems can be created quickly and simply. This simple solution requires a Bluetooth receiver with integrated amplifier, a pair of speakers and a power supply. Your smartphone connects automatically so you can listen to your favourite music in the room. Other sound sources, such as the TV, can also be connected to the amplifier via cable. The ideal solution for all applications, from residential settings to small service companies and particularly hotels. For flush-mounting devices, interface and stereo amplifier, the Bluetooth network name can also be customised (for details see page 181).
In the example 6 stereo amplifiers (art. 19590.B) 4+4 W RMS with built-in Bluetooth receiver are installed (in the kitchen, lounge, the three bedrooms and the bathroom), powered at 12 V with power supply for DIN rail (art. 01831) installed in the utility room.
The amplifiers are connected to passive flush mounting speakers, 8 Ω 3 W (art. 20587.B) in the kitchen, bathroom and two bedrooms, while in the lounge and the double room the most powerful flush mounting speakers, 8 Ω 10 W with 8 modules (art. 21588.B) are connected.
Moreover in the lounge, the Hi-Fi system amplifier is connected to the input of the flush-mounting amplifier 19590.B to play music in the room from the radio, CD or TV, thus creating a home theatre effect.

Sound system with 8 modules 8 Ω 10 W RMS.

Stereo amplifier 8 Ω 4+4 W RMS with built-in Bluetooth receiver.

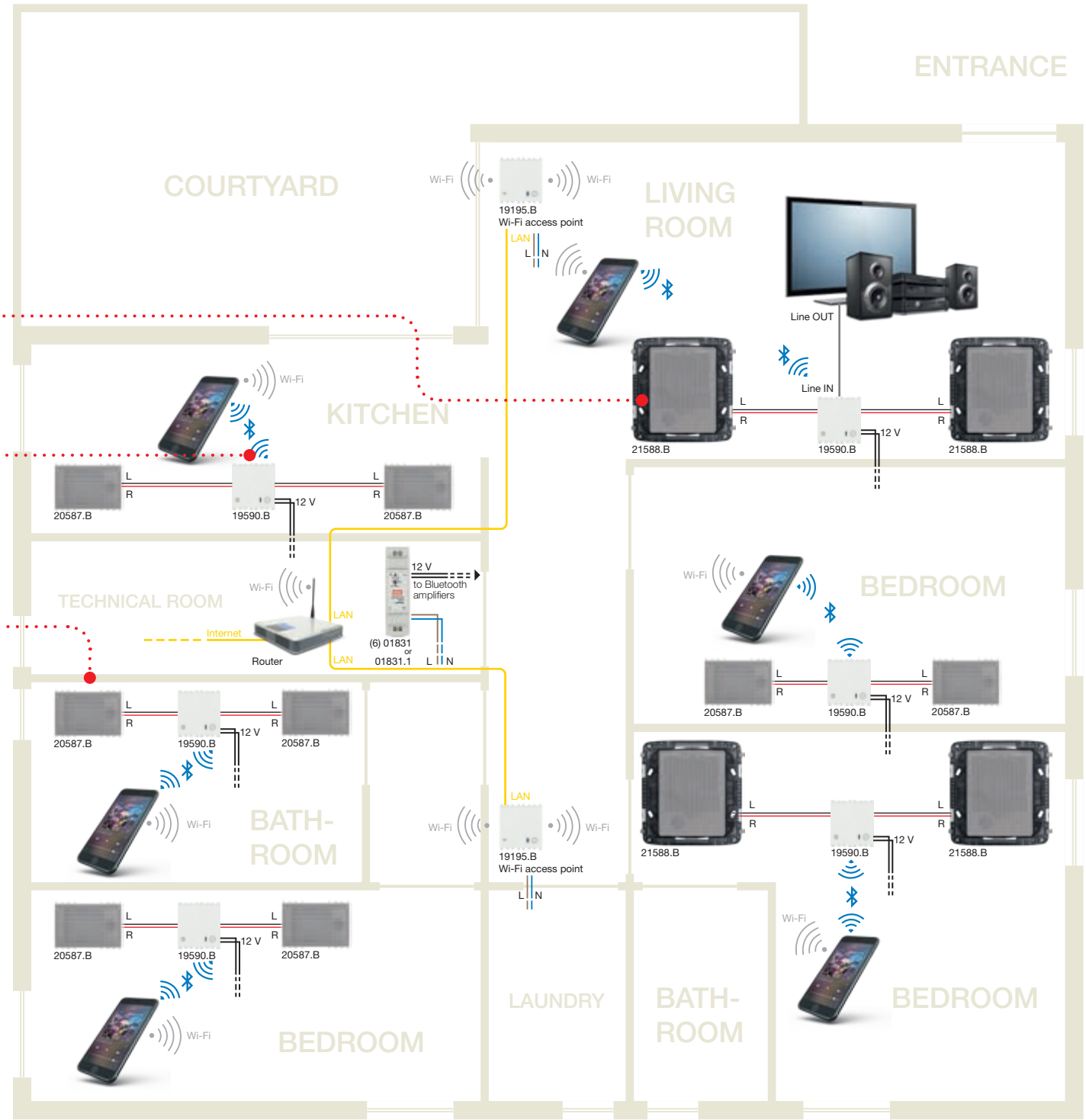
Sound system with 3 modules 8 Ω 3 W RMS.

What to do:

Visit the website www.vimar.com, section Download/Video/Products to view the video: **"Sound system"**.

Typical system: 160 m² villa with stand-alone sound system.

Bluetooth®



Power supply 230 V~ — Power supply 12 V (power supplies 01831 or 01831.1) — Wired connection to sound system (Right/Left)

The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual.

Smart products

EIKON	ARKÉ	PLANA

Radiofrequency smart devices

03955
4-button flat device with RF transmission, 868 MHz, **EnOcean®** standard, energy harvesting supply powered by built-in electrodynamic generator, to complete with 20506 or 20506.2, 19506 or 19506.2 or 14506 or 14506.2 buttons - 2 modules

01796.1
EnOcean® multifunction actuator, NO 8 A 230 V~ relay output, supply voltage 230 V~ 50/60 Hz

03925
4-button flat device with RF transmission, 2.4 GHz, ***Bluetooth®*** Low Energy *wireless technology* standard, energy harvesting supply powered by built-in electrodynamic generator, to complete with 20506 or 20506.2, 19506 or 19506.2 or 14506 or 14506.2 buttons - 2 modules

03905
4-button flat device with RF transmission, 2.4 GHz, **Zigbee Green Power** standard, energy harvesting supply powered by built-in electrodynamic generator, to complete with 20506 or 20506.2, 19506 or 19506.2 or 14506 or 14506.2 buttons - 2 modules

03906
4-button flat device with RF transmission, 2.4 GHz, **Zigbee Green Power** and **Friends of Hue** standard, energy harvesting supply powered by built-in electrodynamic generator, to complete with 20506, 19506 or 14506 buttons - 2 modules

20507
Frame for Eikon Chrome 2-central-module or 2-module cover plates, grey

20507.B
Frame for Eikon Chrome 2-central-module or 2-module cover plates, white

19507
Frame for Arké 2-central-module or 2-module cover plates, grey

19507.B
Frame for Arké 2-central-module or 2-module cover plates, white

20507
Frame for Plana 2-central-module or 2-module cover plates, grey

20507.B
Frame for Plana 2-central-module or 2-module cover plates, white

21507
Frame for Eikon Evo 2-module cover plates, grey

21507.B
Frame for Eikon Evo 2-module cover plates, white

▲ **22507**
Frame for Eikon Exé 2-module cover plates, grey

▲ **22507.B**
Frame for Eikon Exé 2-module cover plates, white

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Smart products

EIKON

ARKÉ

PLANA

Radiofrequency smart devices

20506
Pair of 1-module buttons for RF devices, customizable[1], grey

20506.B
Pair of 1-module buttons for RF devices, customizable[1], white

20506.N
Pair of 1-module buttons for RF devices, customizable[1], Next

19506
Pair of 1-module buttons for RF devices, customizable[1], grey

19506.B
Pair of 1-module buttons for RF devices, customizable[1], white

19506.M
Pair of 1-module buttons for RF devices, customizable[1], Metal

14506
Pair of 1-module buttons for RF devices, customizable[1], white

14506.SL
Pair of 1-module buttons for RF devices, customizable[1], Silver

20506.2
2-module button for RF devices, customizable[1], grey

20506.2.B
2-module button for RF devices, customizable[1], white

20506.2.N
2-module button for RF devices, customizable[1], Next

19506.2
2-module button for RF devices, customizable[1], grey

19506.2.B
2-module button for RF devices, customizable[1], white

19506.2.M
2-module button for RF devices, customizable[1], Metal

14506.2
2-module button for RF devices, customizable[1], white

14506.2.SL
2-module button for RF devices, customizable[1], Silver

Radiofrequency kits

0K03906
Kit Friends of Hue Eikon Evo, white.
Contains:
- 1 4-button RF device 03906
- 1 mounting frame 21507.B, white
- 2 buttons 20506.B, white

To be completed with 2-module or 2-central-module Eikon Evo cover plates

Friends of hue personal wireless lighting

zigbee certified product

0K03906.01
Kit Friends of Hue Eikon Evo, grey.
Contains:
- 1 4-button RF device 03906
- 1 mounting frame 21507, grey
- 2 buttons 20506, grey

To be completed with 2-module or 2-central-module Eikon Evo cover plates

Friends of hue personal wireless lighting

zigbee certified product

▲ **0K03906.03**
Kit Friends of Hue Eikon Evo.
Contains:
- 1 4-button RF device 03906
- 1 mounting frame 21507.B, white
- 2 buttons 20506.B, white
- 2-module cover plate 21642.17, total white

Friends of hue personal wireless lighting

zigbee certified product

0K03906.02
Kit Friends of Hue. Contains:
- 1 4-button RF device 03906
- 1 mounting frame 20507.B
- 2 buttons 14506, white
- 1 2-module cover plate 14642.01, white
- 1 2-central-module cover plate 14652.01, white

Friends of hue personal wireless lighting

zigbee certified product

[1] For the customisation of the buttons, see page 198

Smart products

EIKON

Wi-Fi access point

20195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, grey
- 2 modules. Depth: 41 mm

20195.B
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white
- 2 modules. Depth: 41 mm

20195.N
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Next
- 2 modules. Depth: 41 mm

Stand alone sound system

20590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, grey
- 2 modules. Depth: 36 mm

20590.B[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, white
- 2 modules. Depth: 36 mm

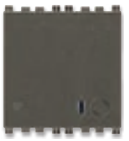
20590.N[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, Next
- 2 modules. Depth: 36 mm

ARKÉ

Wi-Fi access point

19195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, grey
- 2 modules. Depth: 40,7 mm

19195.B
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white
- 2 modules. Depth: 40,7 mm



19195.M
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Metal
- 2 modules. Depth: 40,7 mm

Stand alone sound system

19590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, grey
- 2 modules. Depth: 36,7 mm

19590.B[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, white
- 2 modules. Depth: 36,7 mm

19590.M[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, Metal
- 2 modules. Depth: 36,7 mm

PLANA

Wi-Fi access point

14195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white
- 2 modules. Depth: 40 mm

14195.SL
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Silver
- 2 modules. Depth: 40 mm

Stand alone sound system

14590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, white
- 2 modules. Depth: 36 mm

14590.SL[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN input, 12 Vdc, Silver
- 2 modules. Depth: 36 mm

[1] The article can be ordered with Bluetooth network customisation (see specifications on page 201)

Smart products

EIKON | ARKÉ | PLANA

Stand alone sound system

01831
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1,5 x 17,5 mm modules

▲ 01831.1
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1 x 17,5 mm module

20583
Spring connector for speaker, grey.
Depth: 19,4 mm

20583.B
Spring connector for speaker, white.
Depth: 19,4 mm

20583.N
Spring connector for speaker, Next.
Depth: 19,4 mm

19583
Spring connector for speaker, grey.
Depth: 18,9 mm

19583.B
Spring connector for speaker, white.
Depth: 18,9 mm

19583.M
Spring connector for speaker, Metal.
Depth: 18,9 mm

14583
Spring connector for speaker, white.
Depth: 18,4 mm

14583.SL
Spring connector for speaker, Silver.
Depth: 18,4 mm

Diffusers

21588
Passive speaker 8 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, grey. - 8 modules.
Depth: 48 mm

20587
Passive speaker 3 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, grey. - 3 modules.
Depth: 40 mm

21588.B
Passive speaker 8 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, white. - 8 modules.
Depth: 48 mm

20587.B
Passive speaker 3 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, white. - 3 modules.
Depth: 40 mm

21588.N
Passive speaker 8 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, Next. - 8 modules.
Depth: 48 mm

20587.N
Passive speaker 3 Ω 10 W, to complete with Eikon Evo, Eikon, Arké or Plana cover plates, Next. - 3 modules.
Depth: 40 mm

01906
IP55 passive speaker, 8 Ω 30 W, for hollow walls and false ceiling installation. Depth: 70 mm

01907
Passive speaker, 8 Ω 30 W, for hollow walls and false ceiling installation.
Depth: 68 mm

01908
Passive speaker, 8 Ω 30 W, orientable, for surface mounting

LIGHTS AND ROLLER SHUTTERS AUTOMATION.
Centralised management with no configuration.

Smart solutions to enhance the home: preconfigured devices which require no specific programming and make it possible to transform a conventional system into a small home automation system for managing lights and roller shutters; they can be installed in "star point" or "distributed" systems, in existing environments or in the renovation phase of the residential and small-scale service sectors. Their versatility allows them to be integrated in the most advanced By-me home automation system interconnected to the digital world of the Internet of Things with connected solutions which can be supervised and managed from a smartphone.

Plug&Play.

Preconfigured devices requiring no specific programming are available and can be used to transform a conventional system into a small home automation system for managing lights and roller shutters.
Devices are available for installation on DIN rail (60715 TH35) or retrofit, with pre-programmed inputs and outputs for activating various light and roller shutter control functions; or flush mounting devices, coordinated with the series, featuring RGB backlighting, used to manage lights, roller shutters and scenarios.

There are many advantages.

Simplicity.

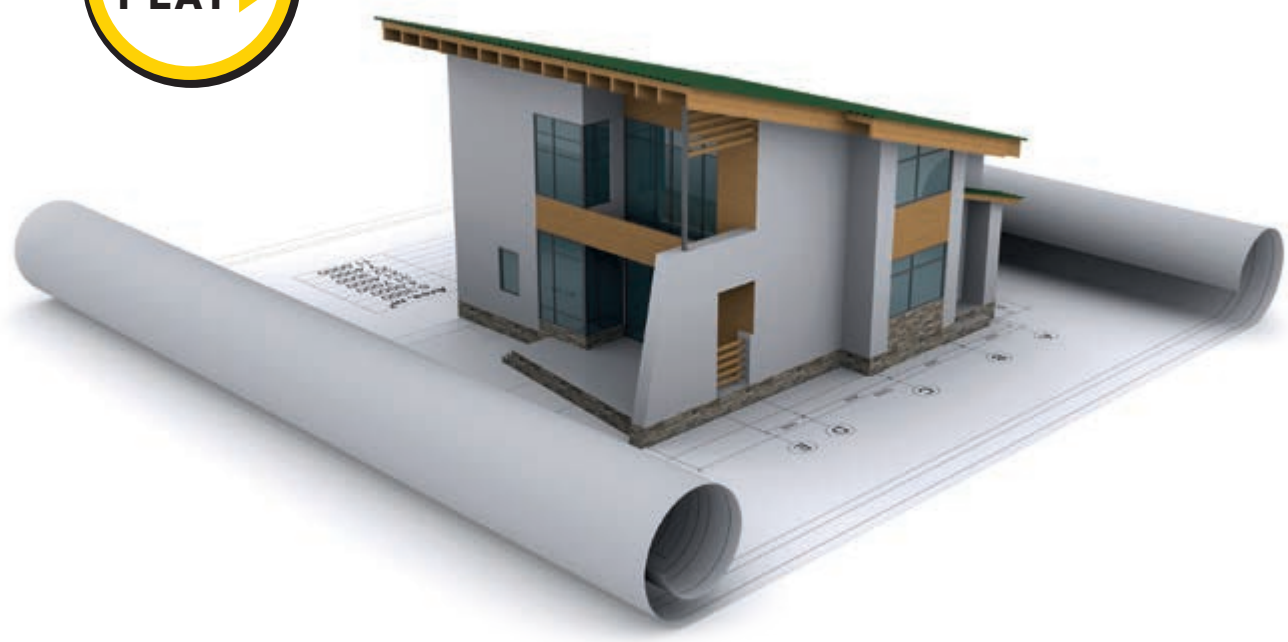
- **Simple installation**: the devices do not require any particular technical expertise; the retrofit and DIN rail devices must have conventional push buttons connected to the inputs and loads to the outputs. On the other hand the universal flush-mounting home automation controls for Eikon Arké and Plana need only be connected to the Bus.
- **Simple activation**: the preconfigured devices (Plug&Play) make the installer's life simple because they require no configuration.
- **Simple customisation**: the universal flush-mounting control keys can be customised with function identification symbols, enabling the colour of the RGB backlighting to BE set without any additional wiring.
- **Simple maintenance**: quick and carried out at a single point, on the main control unit.

Flexibility.

The preconfigured (Plug & Play) devices can be applied to existing systems or systems in the renovation phase, in both the residential and small-scale service sectors.

Scalability.

These preconfigured (Plug&Play) devices are designed for basic management of lighting and roller shutters, but they can also be integrated with the By-me home automation system and so expand the system's functions with standard By-me configuration.



This is only the first step in the pathway that leads to the creation of a home automation system.

From this solution to a real advanced, connected overall control system, there is not far to travel. All you need to do is choose from the many devices in the Vimar catalogue, configure the whole system, and that's it! **In this way, control**, **comfort**, **safety** and **energy efficiency** will be integrated by a single technology that is intelligent and intuitive in equal measure.

Remote control from smartphone, tablet and PC.

The entire home automation system can be controlled over the Internet using a PC, smartphone or tablet of the latest generation.

SMART HOME&BUILDING

Plug&Play: lights and roller shutters automation

Typical system: 60 m^2 mini-apartment with automation system for lights and roller shutters.

Vimar offers smart solutions for enhancing the home: preconfigured devices, which do not require any specific programming and make it possible to transform a traditional system into a small home automation system dedicated to managing lights and roller shutters; they can be installed in "star point" or "distributed" systems, in existing environments or in the renovation phase of residential and small-scale service sectors.
And thanks to their versatility, they can be integrated into the most advanced By-me home automation system. Available for installation on DIN rail (60715 TH35) or flush mounting, these devices have pre-programmed inputs and outputs that activate various light and roller shutter control functions and scenarios.
The advantages deriving from the use of the Plug & Play home automation system are many:

- **simplicity of installation**: the devices do not require any particular technical expertise; the retrofit and DIN rail devices must have conventional push buttons connected to the inputs and loads to the outputs;
- **simplicity of activation**: the preconfigured devices make the installer's life simple because they require no configuration.;
- **simplicity of maintenance**: quick and carried out at a single point, on the main control unit;
- **flexibility**: the Plug & Play devices can be applied to existing systems or systems in the renovation phase, both in the residential and small-scale service sectors;
- **scalability**: these devices are conceived for the basic management of lights and roller shutters, but they can also be integrated with the By-me home automation system and so expand the system functions.

The example shows a typical apartment where an electrical panel installation was carried out with two DIN rail devices (60715 TH35) (art. 01470.1), the first one configured to manage 8 lights (kitchen, hallway, bedrooms and bathroom) and the second to control 4 slat roller shutters (kitchen, bedrooms and bathroom).
In the living room, three flush mounting devices were installed:

- one art. 01477 for controlling one light, with parallel connection of two push buttons and lights scenario OFF;
- one art. 01476 for controlling a slat roller shutter;
- one art. 01475 for managing "roller shutters UP/DOWN" and "lights OFF, roller shutters DOWN" scenarios.

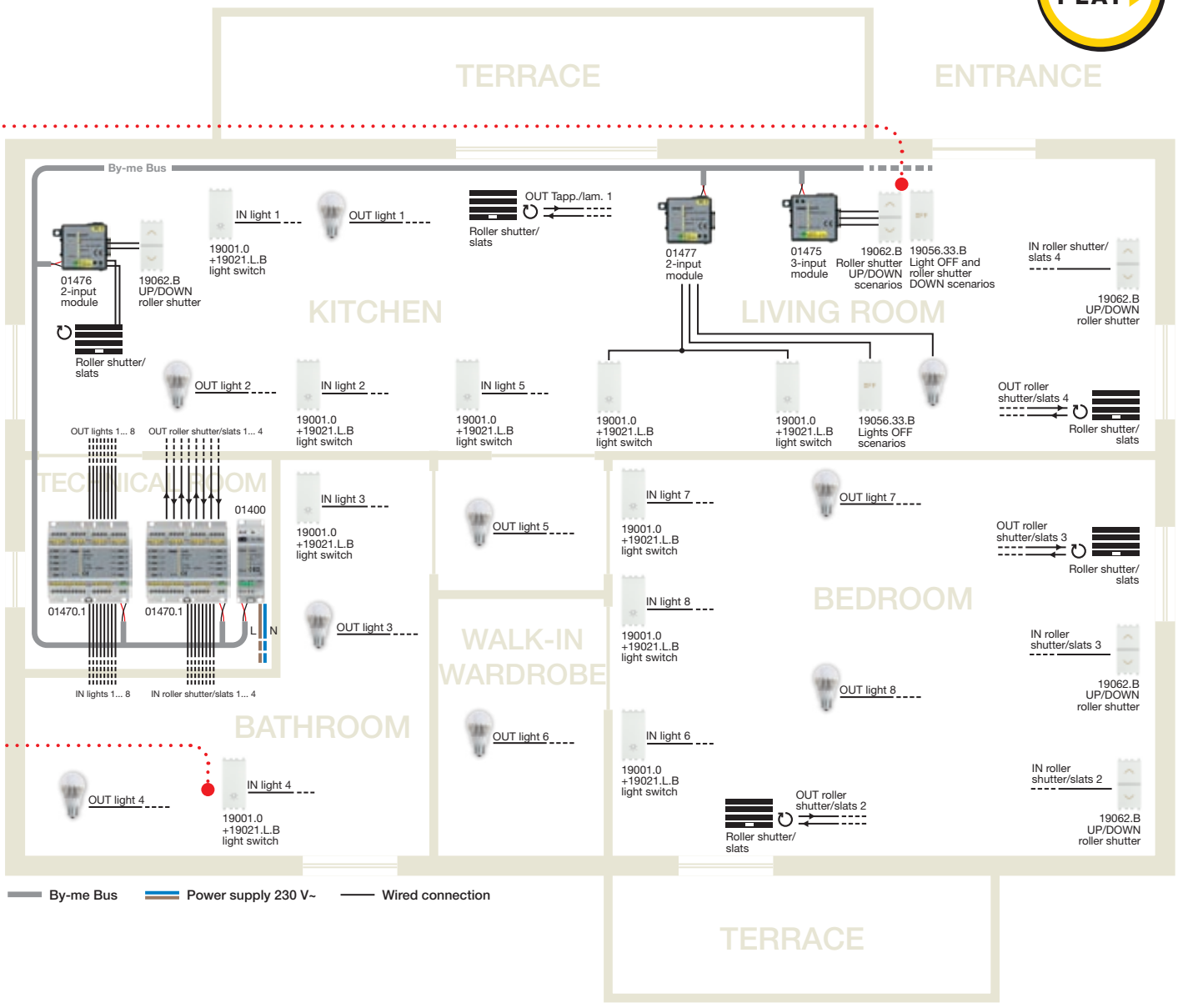
Switch for UP/DOWN roller shutter scenarios and 1-way switch for Lights OFF and Roller shutters DOWN scenario connected to the retrofit module inputs **01475**.

1-way switch for light control.

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial/Home automation system to watch the video tutorial:
"Plug&Play home automation - Distributed installation for flush mounting/junction boxes".

Typical system: 60 m² mini-apartment with automation for lights and roller shutters, with 9 input and 8 output modules featuring preconfigured flush-mounting (retrofit) programmable digital inputs.



Preconfigured Plug&Play device functions

Code	Description	Functions
Device for DIN rail (60715 TH35)		Alternatives
01470.1	**Module with 9 inputs and 8 preprogrammed outputs** for residential or hotel applications, programmable digital inputs for potential-free contacts, programmable relay outputs NO 16 A 120-230 V~ 50/60 Hz with lights and roller shutter control function and slat orientation, local control push button.	**8 lights** (default value) *OR* **6 lights** and **1 roller shutter/slats** *OR* **4 lights** and **2 roller shutters/slats** *OR* **2 lights** and **3 roller shutters/slats** *OR* **4 roller shutters/slats** *OR* scenario **with lights OFF** and **roller shutters DOWN**
Flush mounting devices		Not editable in Plug&Play mode
01475	**Module with 3 programmable digital inputs** for potential-free contacts, **3 outputs for LED control**.	• roller shutters **UP scenario** • roller shutters **DOWN scenario** • lights **OFF** and **roller shutters DOWN scenario**
01476	**Module with 2 programmable digital inputs** for potential-free contacts, **1 output for roller shutters/slats** and relay for motor cosφ 0.6 2 A 120-230 V~, **2 outputs for LED control**.	roller shutter/slat **control**
01477	**Module with 2 programmable digital inputs** for potential-free contacts, **1 light control** relay output NO 10 A 120-230 V~ 50/60 Hz, **2 outputs for LED control**.	• control for one **light** • lights **OFF scenario**

Notes.
Plug&play mode requires the system to include only Plug&Play devices and not devices configured using the By-me control unit or EasyTool Professional.
With device 01470 each relay can be used on its own to control lights or two adjacent relays.

Plug&Play: lights and roller shutters automation

Typical system: 60 m² mini-apartment with automation system for lights and roller shutters featuring universal flush-mounting controls.

As part of VIEW, Vimar's vision of the Internet of Things, innovative solutions for By-me systems, capable of turning buildings into smart spaces, are now available. The universal flush-mounting controls (for Eikon, Arké and Plana) with or without on-board actuator, are used to create home automation systems with even better performances, which are simple to use and can be customised, both in terms of design and functions.
To make installation easier these devices are already programmed and ready for use in **Plug&Play mode.** Simply install them the loads and scenarios are immediately activated and work instantly with no need for configuration.
It is also possible to configure four different functions on the 2-module mounting box, and six on the 3-module mounting box, two for each key.

The example shows a typical apartment in which universal flush-mounting home automation controls have been installed to manage 8 lights (in all the rooms) and slat roller shutters (kitchen, lounge, bedroom and bathroom).
The following were installed in the living area:

- three art. 01482 with on-board actuator for controlling the three roller shutters;
- one art. 01480 in input for controlling the "roller shutters "UP/DOWN" and "OFF lights, roller shutters DOWN" scenarios;
- three art. 01481 for managing the lights.

The following were installed in the bedroom:

- two art. 01482 for controlling the slat roller shutters;
- two art. 01481 for controlling the lights

The following were installed in the bathroom:

- one art. 01482 for controlling the slat roller shutter;
- two art. 01481 for controlling the lights.

One art. 01481 was installed in the utility room too, for controlling the lights.

By-me universal home automation control **01480** to control roller shutters and scenarios. The top left push button raises all the roller shutters while the bottom left push button lowers them;
the top right push button switches off all the lights and the bottom right one activates the scenario with all lights off and the roller shutters down.

By-me universal home automation control **01481** for controlling lights and roller shutters. The top left push button activates the on-board relay to control a light while the bottom left push button deactivates it;
the top right push button switches off all the lights and the bottom right one activates the scenario with all lights off and the roller shutters down.

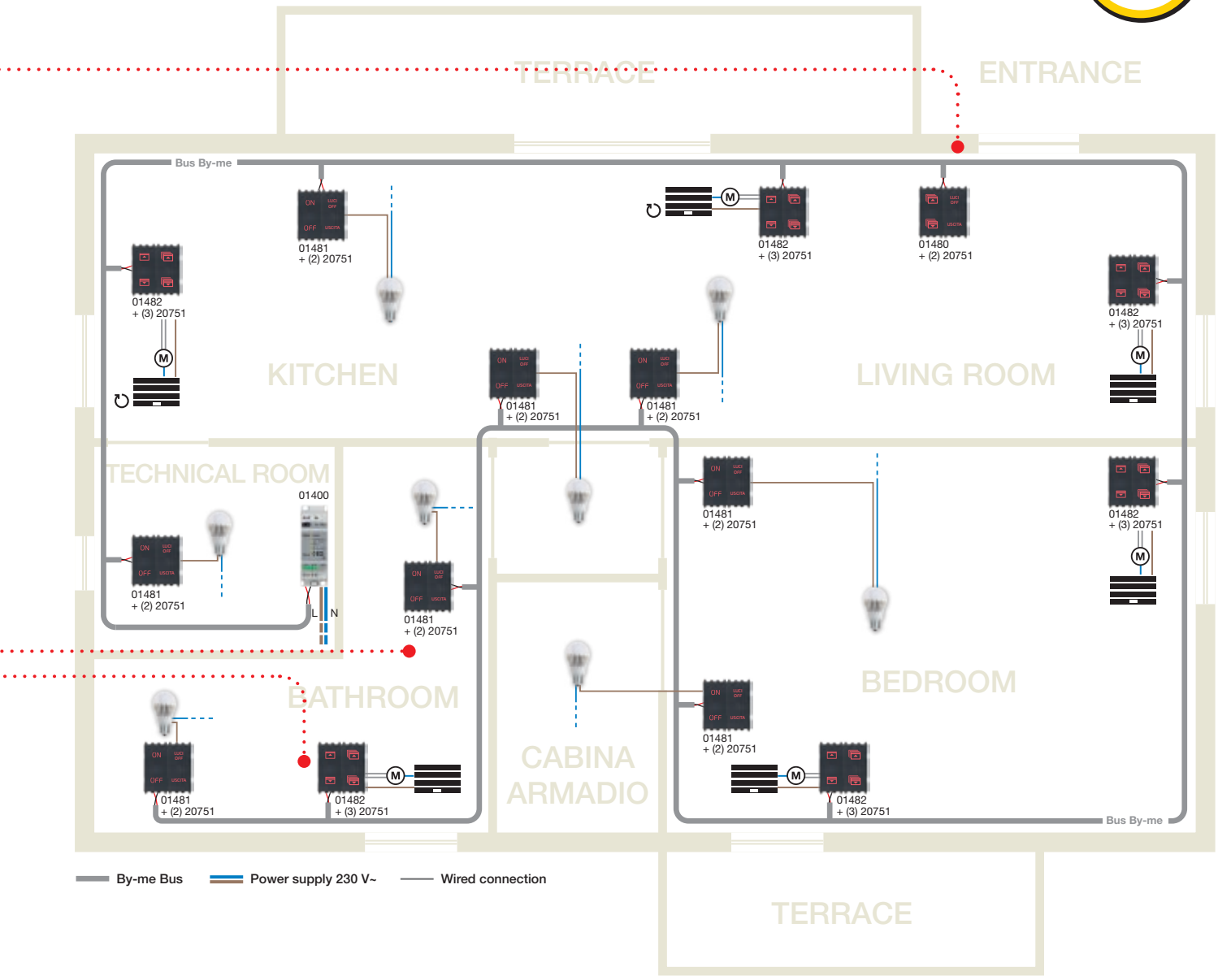
By-me universal home automation control **01482** for controlling slat roller shutters. A long press on the top left push button raises a roller shutter and a long press on the bottom left push button lowers it; the top right push button raises all the roller shutters and the bottom right one lowers them.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: 60 m² mini-apartment with automation for lights and roller shutters, with preprogrammed universal flush-mounting home automation controls.

PLUG & PLAY



Preconfigured Plug&Play device functions

Code	Description	Functions
Flush mounting devices		Not editable in Plug&Play mode
01480	**Home automation device with four push buttons**, RGB LED location in the dark with brightness control, to be completed with interchangeable half-button caps: 1 or 2 module Eikon, 2 module Arké or Plana	• push button A: roller shutters **UP scenario** • push button B: roller shutters **DOWN scenario** • push button C: lights **OFF scenario** • push button D: lights **OFF and roller shutters DOWN scenario**
01481	**Home automation device with four push buttons and actuator** with change-over relay output 16 A 120-240 V~ 50/60 Hz, RGB LED location in the dark with brightness control, to be completed with two interchangeable half-button caps: 1 or 2 module Eikon, 2 module Arké or Plana	• push button A: **activates the on-board** relay actuator • push button B: **deactivates the on-board** relay actuator • push button C: lights **OFF scenario** • push button D: lights **OFF and roller shutters DOWN scenario**
01482	**Home automation device with four push buttons and actuator for 1 roller shutter with slat orientation** with change-over relay output for cosφ motor 0.6 2 A 120-240 V~ 50/60 Hz, RGB LED location in the dark with brightness control, to be completed with two interchangeable half-button caps: 1 or 2 module Eikon, 2 module Arké or Plana	• a long press on push button A **opens the roller shutter** and a long press on push button B **closes it** • a short press of push buttons A or B **stops the roller shutter if it is moving**; vice versa, if the roller shutter is stationary, the **slats tilt** • push button C: roller shutters **UP scenario** • push button D: roller shutters **DOWN scenario**

Notes.
The Plug&play mode requires the system to include only Plug&Play devices and not devices configured in the By-me system.
For operation in Plug&Play mode, only install the 1-module fixed half-button caps on the device.

Control and functions

System components

▲ **01470.1**
Module with 9 programmable inputs and 8 outputs, for residential or hotel applications, NO 16 A 120-230 V~ 50/60 Hz programmable relay outputs for lighting and laths orientation control, local control push buttons, 6 x 17,5 mm modules

01400
Supply unit, 29 Vdc 400 mA output, 230 V~ 50/60 Hz, 2 x 17,5 mm modules

01401
Supply unit, 29 Vdc 1280 mA output, 120-230 V~ 50/60 Hz, 8 x 17,5 mm modules

01475
3 programmable digital inputs module for contacts without potential, 3 LED control outputs, By-me home automation, for flush mounting (backside)

01476
2 programmable digital inputs module for contacts without potential, 1 relay output for roller blind laths positioning, relay for cosφ 0.6 2 A 120-230 V~ motor, 2 LED control outputs, By-me home automation, for flush mounting (backside)

01477
2 programmable digital inputs module for contacts without potential, 1 NO 10 A 120-230 V~ 50/60 Hz light control relay output, 2 LED control outputs, By-me home automation, for flush mounting (backside)

01840.E
Bus system cable, 2x0,50 mm2, with LSZH sheath, CPR Eca class, suitable for I category cables (U0 = 400 V), white - 100 m

Eikon, Arké and Plana home&building automation controls

01480
4-button - 2 modules

01480.TR
As above, tropicalized. Depth: 20 mm

01481
4-button + NO 16 A 120-240 V~ 50/60 Hz relay output - 2 modules
Depth: 37 mm

01482
4-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor - 2 modules.
Depth: 37 mm

01485
6-button - 3 modules

01485.TR
As above, tropicalized. Depth: 20 mm

01486
6-button + NO 16 A 120-240 V~ 50/60 Hz relay output - 3 modules
Depth: 37 mm

01487
6-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor - 3 modules.
Depth: 37 mm

Interchangeable half-buttons for home&building automation - 1 module

20751
Without symbol, customizable, grey

20751.B
Without symbol, customizable, white

20751.N
Without symbol, customizable, Next

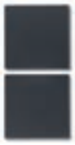
19751
Without symbol, customizable, grey

19751.B
Without symbol, customizable, white

19751.M
Without symbol, customizable, Metal

14751
Without symbol, customizable, white

14751.SL
Without symbol, customizable, Silver



20751.0
Fixed, grey

20751.0.B
Fixed, white

20751.0.N
Fixed, Next

19751.0
Fixed, grey

19751.0.B
Fixed, white

19751.0.M
Fixed, Metal

14751.0
Fixed, white

14751.0.SL
Fixed, Silver

20751.1
ON/OFF symbols, grey

20751.1.B
ON/OFF symbols, white

20751.1.N
ON/OFF symbols, Next

19751.1
ON/OFF symbols, grey

19751.1.B
ON/OFF symbols, white

19751.1.M
ON/OFF symbols, Metal

14751.1
ON/OFF symbols, white

14751.1.SL
ON/OFF symbols, Silver

Plug&Play: lights and roller shutters automation

EIKON	ARKÉ	PLANA

Control and functions

Interchangeable half-buttons for home&building automation - 1 module

20751.2
Arrows symbols, grey

20751.2.B
Arrows symbols, white

20751.2.N
Arrows symbols, Next

19751.2
Arrows symbols, grey

19751.2.B
Arrows symbols, white

19751.2.M
Arrows symbols, Metal

14751.2
Arrows symbols, white

14751.2.SL
Arrows symbols, Silver

20751.3
Regulation symbols, grey

20751.3.B
Regulation symbols, white

20751.3.N
Regulation symbols, Next

19751.3
Regulation symbols, grey

19751.3.B
Regulation symbols, white

19751.3.M
Regulation symbols, Metal

14751.3
Regulation symbols, white

14751.3.SL
Regulation symbols, Silver

Interchangeable half-buttons for home&building automation - 2 modules

20752
Without symbol, customizable, grey

20752.B
Without symbol, customizable, white

20752.N
Without symbol, customizable, Next

19752
Without symbol, customizable, grey

19752.B
Without symbol, customizable, white

19752.M
Without symbol, customizable, Metal

14752
Without symbol, customizable, white

14752.SL
Without symbol, customizable. Silver

20752.1
ON/OFF symbols, grey

20752.1.B
ON/OFF symbols, white

20752.1.N
ON/OFF symbols, Next

19752.1
ON/OFF symbols, grey

19752.1.B
ON/OFF symbols, white

19752.1.M
ON/OFF symbols, Metal

14752.1
ON/OFF symbols, white

14752.1.SL
ON/OFF symbols, Silver

20752.2
Arrows symbols, grey

20752.2.B
Arrows symbols, white

20752.2.N
Arrows symbols, Next

19752.2
Arrows symbols, grey

19752.2.B
Arrows symbols, white

19752.2.M
Arrows symbols, Metal

14752.2
Arrows symbols, white

14752.2.SL
Arrows symbols, Silver

20752.3
Regulation symbols, grey

20752.3.B
Regulation symbols, white

20752.3.N
Regulation symbols, Next

19752.3
Regulation symbols, grey

19752.3.B
Regulation symbols, white

19752.3.M
Regulation symbols, Metal

14752.3
Regulation symbols, white

14752.3.SL
Regulation symbols, Silver

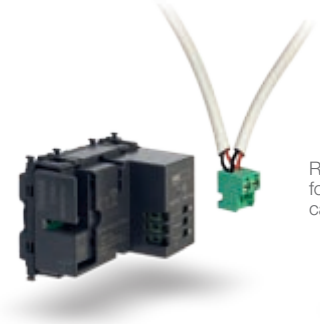
BY-ME: HOME AUTOMATION

Energy efficiency, safety and comfort work together.

The functions dialogue with each other comprehensively and continually, facilitating large as well as small daily actions and ensuring greater energy efficiency, safety, comfort and control. Centralised supervision for optimising energy consumption, checking who is at your door, lighting and climate control, moving roller shutters, activating or deactivating the burglar alarm system, viewing the filming of the video surveillance cameras or managing the sound system. So you can make the most of your home.

Simple installation.

Wiring Bus devices is quick and easy, as there are no specific topology rules.



Removable terminals for wiring the Bus cable.

Flexible installation.

The wide range of devices allows the installation of flush mounting functions with 1 to 3 module solutions, on DIN rail, wall or retrofit.

Rapid configuration.

The devices in the system are configured from a PC using the free software EasyTool Professional, or from the 3-module flush mounting control unit with touch screen display.
Moreover, the universal flush-mounting home automation controls, the retrofit devices and the DIN rail module with 9 inputs and 8 outputs are pre-set with basic functions; by integrating them in a conventional system, without the need for any programming, it is possible to create a small home automation system for managing lights, roller shutters and scenarios.

Maximum integration.

By-me can be integrated with all the available functions, including safety functions (automation, burglar alarm systems, video door entry systems and CCTV) and automation functions, which also carry out complex controlled or automatic actions (scheduled or according to the conditions).

Everything under control.

The user interfaces are clear and simple to use. Locally, it uses elegant flush-mounting touch screens, while remotely the whole system can be managed from a PC or smartphone.

Aesthetic coordination.

TO guarantee full aesthetic coordination with the Vimar series: Eikon, Arké, Idea and Plana.

Typical system: 90 m² apartment with automation system with distributed logic (lights, roller shutters) and video door entry system. (solution with flush-mounting devices).

The example shows a By-me system specified with **flush mounting actuators** in an apartment measuring 90 m², which allows:

- control of 7 roller shutters with slat orientation using rocker buttons with built-in actuator 01482 and rocker buttons 01480;
- control of 10 lights (on-off) using rocker buttons with built-in actuator 01481 and rocker buttons 01480;
- video door entry function with flush-mounting video entryphone 19558 communicating with Due Fili Plus entrance panel;
- management of the By-me system (for controlling functions and retrieving scenarios) using supervisor 19558 with home automation module 01965;
- the presence of the Web server light (art. 01946) and flush-mounting Wi-Fi access points (art. 19195) allows the automation system to be supervised from a local Wi-Fi network or remotely from a smartphone using the By-web app.

Due Fili Arké video entryphone with 3.5" display and By-me interface module 01965 for home automation supervision

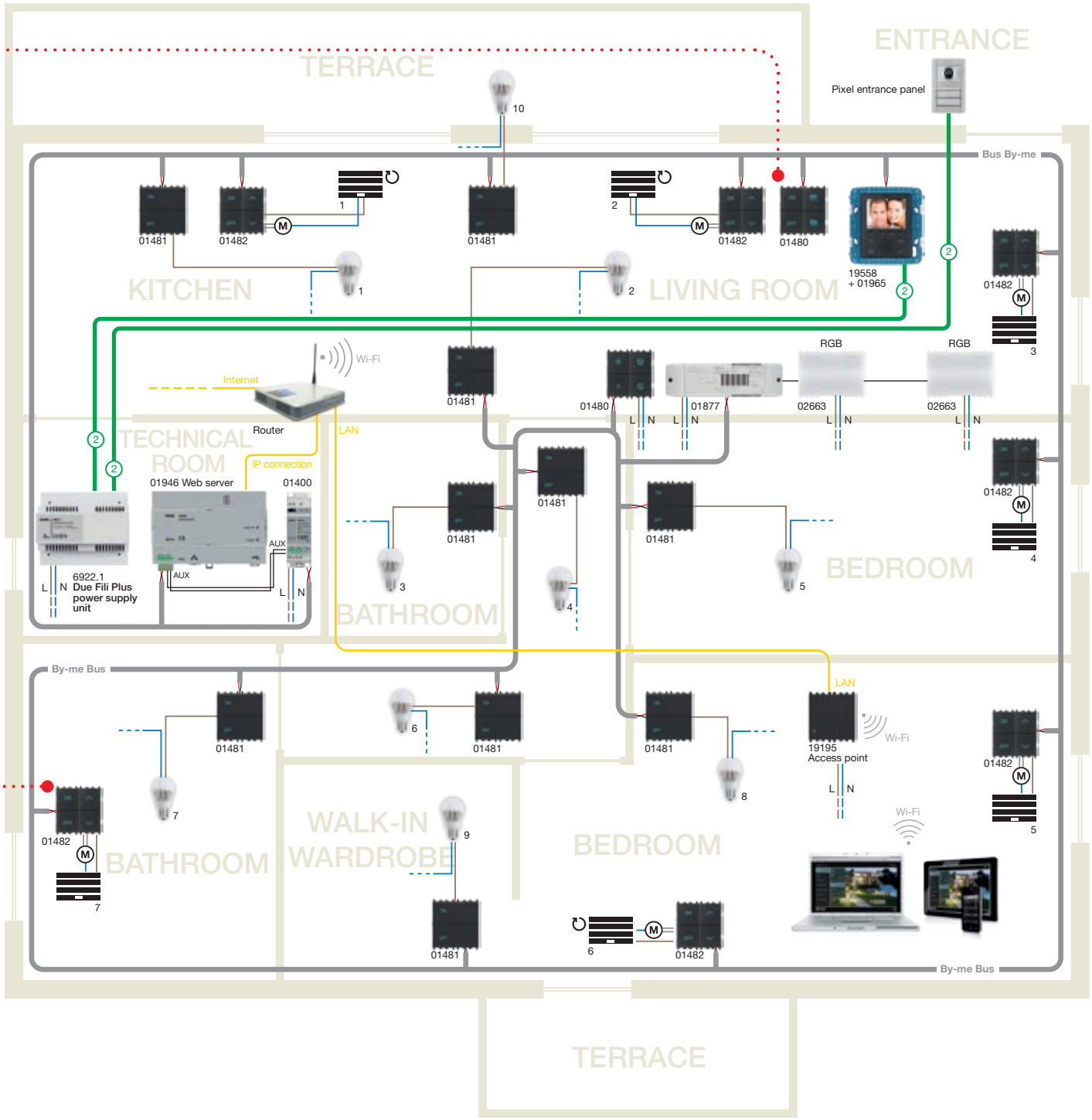
Home automation controls to manage On/OFF scenarios for lights and Up/Down scenarios for roller shutters

Home automation controls for controlling lights and roller shutters

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial to watch the video tutorial:
"Home automation system - Configuration of a roller shutter kit using the software EasyTool Professional".

Typical system: 90 m² apartment featuring automation system with distributed logic (lights, roller shutters) and video door entry system.



By-me Bus Due Fili Plus Bus Power supply 230 V~ Wired connection

Typical system: 90 m² apartment with zone temperature control system.

The example shows an underfloor heating system with high-temperature towel heaters in the bathrooms and a monosplit air conditioning system.
This is all managed by the By-me home automation system, with a flush mounting control unit and touch screen, thermostats, electronic temperature probes, actuators, IR interfaces and weather station.

- The Full Flat 4.3" colour touch screen 21511.1.B is installed in the lounge, and is used to view and manage the temperature; the touch screen is connected to the temperature probe 20432.B.
- The IR interface 20584.1.B is installed in the kitchen, and with the home automation system, it ensures the integrated management of the air conditioning split system, acting as a remote control.
- Touch screen thermostats 02951.B are installed in the two bedrooms, and temperature probes 20538.B are installed in the bathrooms.
- In the utility room, in addition to the actuators 01471 which manage the mixing valves, the HVAC controller 01465 is installed for heating and air conditioning, controlling the water delivery temperature through a mixing valve and the actuator 01850.2 for the circulation pump.
- The Web server light (art. 01946), connected to the By-me Bus and the Wi-Fi router, are used to supervise and manage the climate control from a smartphone using the By-web app, both from the local network and remotely.

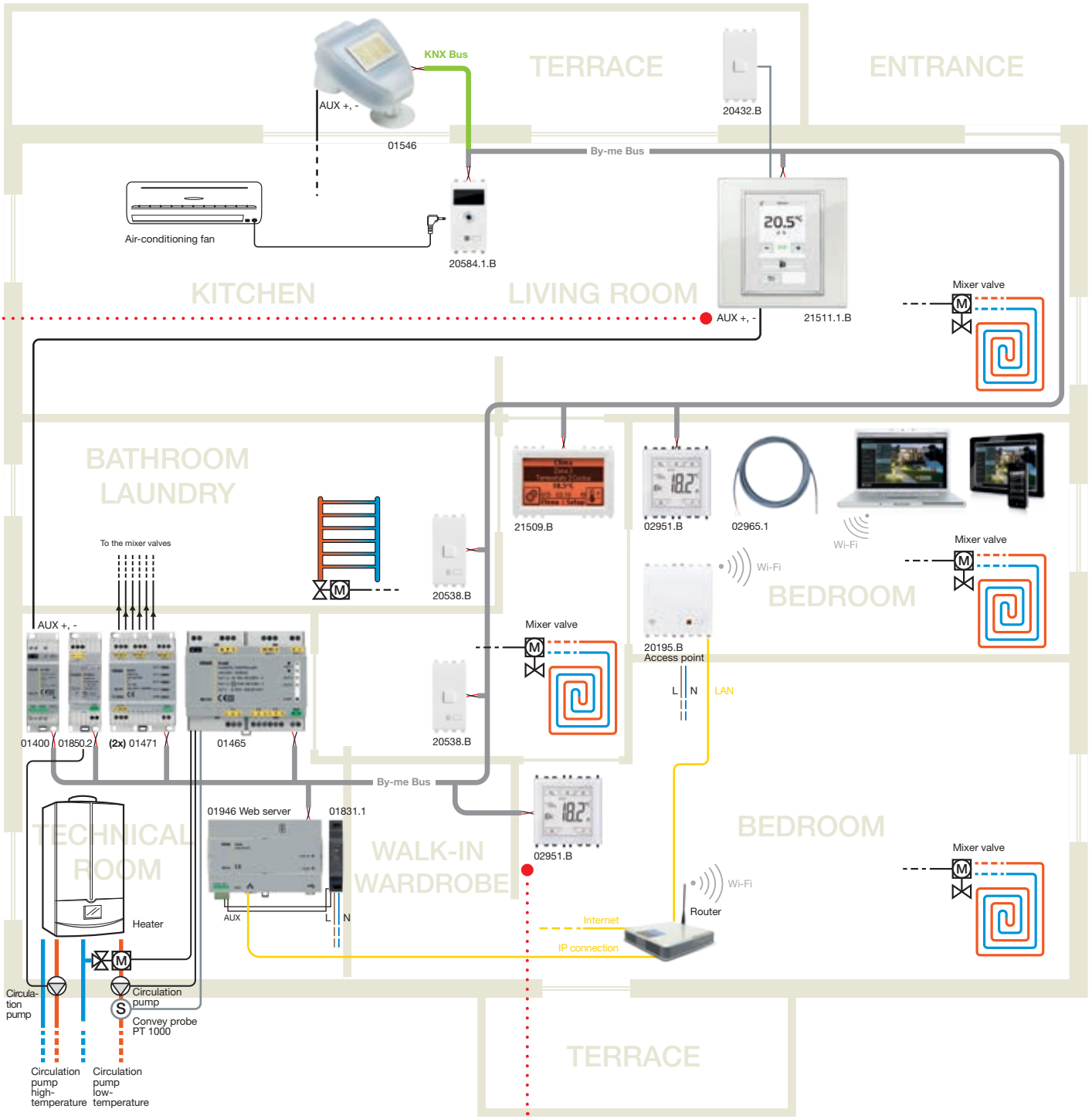
Full Flat 4.3" colour touch screen for the supervision of a single room or the whole apartment.

Flush-mounting touch screen thermostat.

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial to watch the video tutorial:
"Home automation system - Clima&Energy By-me. Configuration via EasyTool Professional of a 2-pipe system".

Typical system: 90 m² apartment with zone temperature control system.



By-me Bus · KNX Bus · Power supply 230 V~ · Wired connection · Probe connection · Hot water · Cold water · IP connection

Typical system: 160 m² villa with energy management system (monitoring, photovoltaic production, consumption of single loads and anti blackout system).

The example shows a By-me home automation system integrated with a photovoltaic system, in a 160 m² villa, which allows:

- control of **4 single phase loads** (up to 33 kW) using load control module 01455 mounted on DIN rail (60715 TH35) and current sensors 01457;
- display of power consumed by the 4 single loads on 4.3" Full Flat colour touch screen 21511.1;
- measurement of electricity produced by the photovoltaic system using energy meter module 01450 mounted on DIN rail (60715 TH35) and current sensor mounted on a dedicated control unit;
- display of energy produced by the photovoltaic system on 4.3" Full Flat colour touch screen 21511.1 located in the lounge;
- assignment of disconnect priorities from 3-module control unit 21509 mounted on DIN rail (60715 TH35);
- water and gas consumption displayed via impulse counters 01452 connected to meters with pulse outputs;
- the supervision of the whole system from a smartphone using the By-web app, with the presence of the Web server light (art. 01946) installed on DIN rail connected to the By-me Bus and to a Wi-Fi router.

4.3" Full Flat colour touch screen with display of "global energy consumption"

Display of "partial power consumption" (oven)

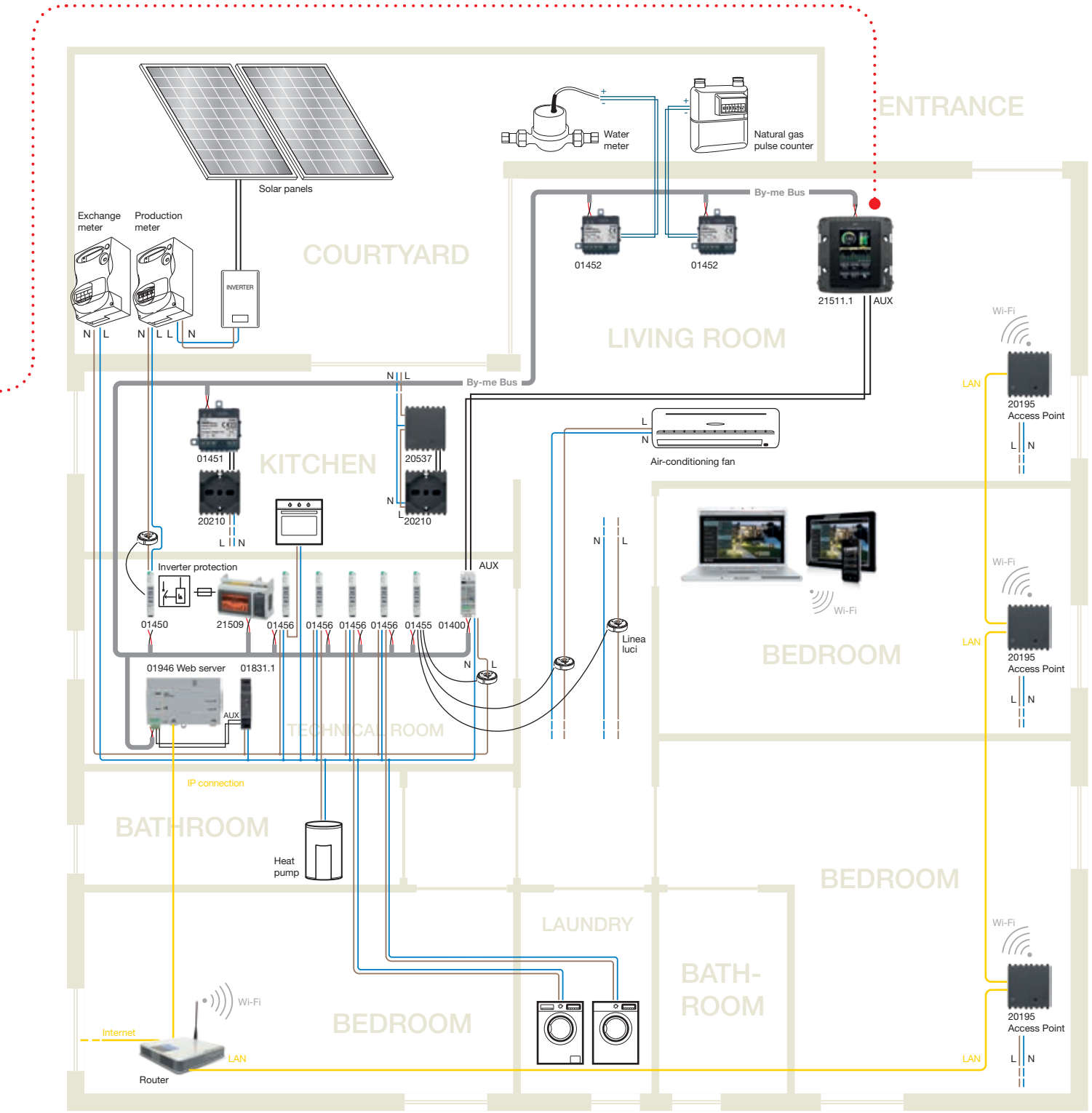
Display of "methane gas consumption"

Display of "hot water consumption"

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial to watch the video tutorial:
"Home automation system - Configuration of a three-phase load control system with remote photovoltaic production".

Typical system: 160 m² villa with energy management system (monitoring, photovoltaic production, consumption of single loads and anti blackout system).



By-me Bus | Auxiliary power supply | Wired connection | Probe connection | Power supply 230 V~ (3 phase) | Power supply 230 V~

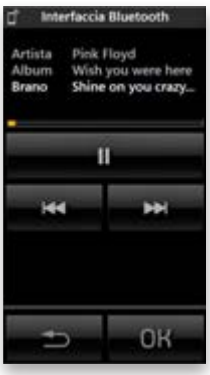
The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual

Typical system: 160 m² villa with sound system.

The example shows a sound system in a 160 m² villa, with **6 audio inputs** (3 stand alone amplifiers with Bluetooth® connected to the four-button home automation controls, a Bluetooth® interface, an RCA input and an FM radio tuner) and **6 audio zones** (lounge, kitchen, bathroom and three bedrooms), which allows:

- connection of a CD/DVD player to the RCA 20582 input located in the lounge;
- operation and control of the entire system (audio inputs, volume, change source and change track) from the 4.3" Full Flat colour touch screen located in the lounge;
- transmission of playlists on the smartphone to the stand alone amplifiers with Bluetooth® installed in the three bedrooms;
- management of audio sources and volume from flush-mounting controls 01483 and 01484, installed in the kitchen and in the three bedrooms;
- listening to music broadcasts played by FM tuner with RDS 01900, mounted on DIN rail (60715 TH35);
- creation of a Wi-Fi data network, using a router and the flush-mounting access points (art. 20195) installed in the lounge and in the hallway, to connect to the Internet from a PC, tablet or smartphone and listen to your favourite music in streaming;
- local or remote supervision of the system via the Web server light (art. 01946) connected to the By-me Bus.

4.3" Full Flat colour touch screen with display of "sound system management" located in the lounge



Viewing of playlists from the "Bluetooth® Interface"

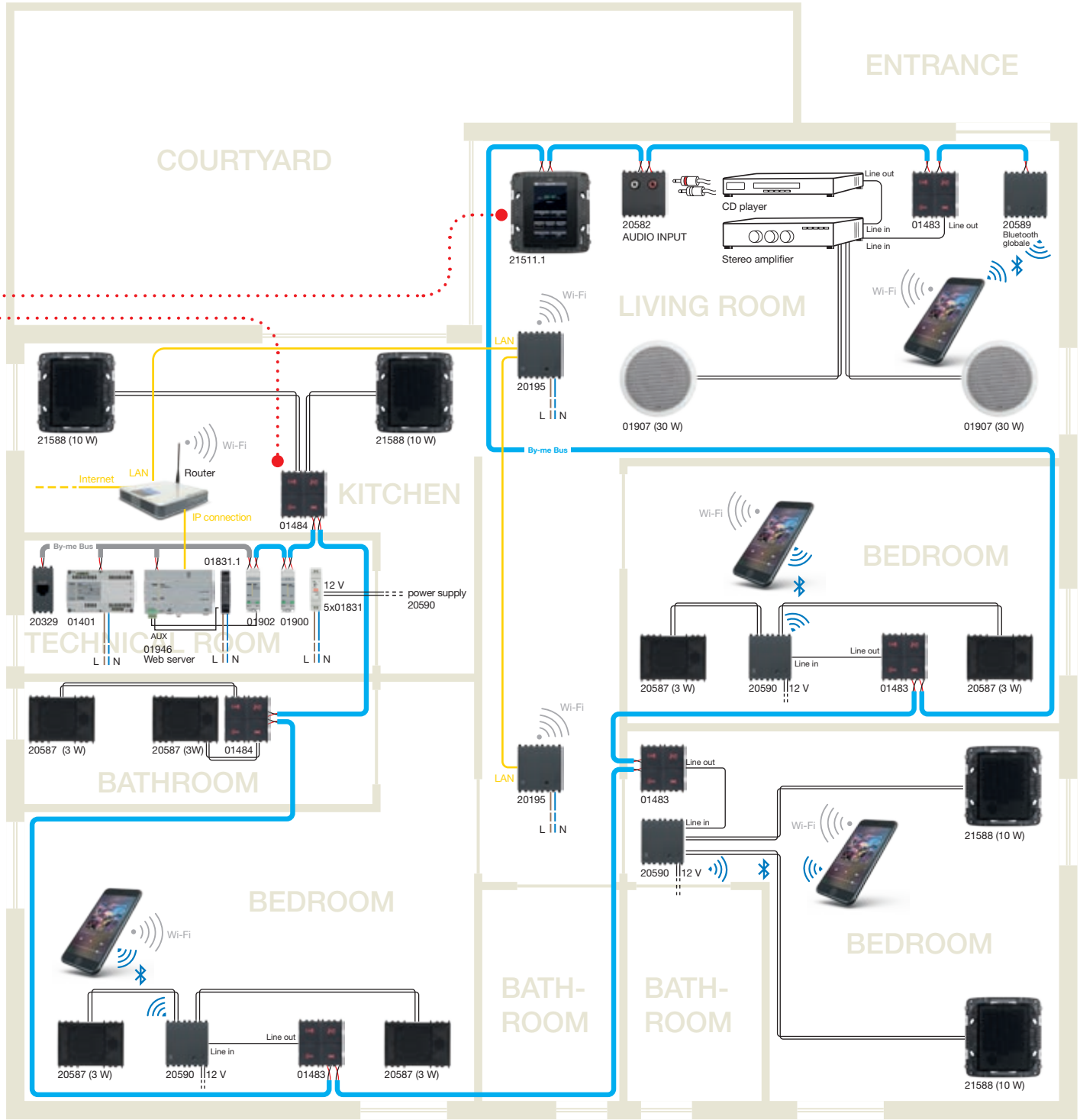
Activation of sound system zone

Home automation controls and stand-alone amplifier with Bluetooth®

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial to watch the video tutorial:
"Home automation system - Configuration of a mini sound system using the EasyTool Professional software".

Typical system: 160 m² villa with sound system.



Bus sound system — Wired connection — Power supply 230 V~ — IP connection — Power supply 12 V (power supplies 01831 or 01831.1)

The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual

Typical system: 160 m^2 villa with video door entry system, CCTV, local and remote supervision.

The example shows a typical CCTV system with IP video cameras connected to an AHD DVR and to a Wi-Fi router via a switch in a 160 m^2 villa. The 10" IP multimedia video touch screen, on which the CCTV Controller app is installed, is used to view and control the IP video cameras connected to the Wi-Fi router.
Moreover, using the "Video cameras" app it is possible to view the images captured by the entrance panel.
Via the router, the images captured by the IP video cameras can be transmitted to mobile devices (smartphone or tablet) provided these have the Superlive Plus app, or to a PC with a browser for navigation on the Internet. It also has a By-alarm control unit (01703) with an Outputs expansion module (01710) to which the DVR is connected.
With this configuration, when the By-alarm system identifies, for example, an intrusion in zone 2, it sends a signal via the output to which the DVR is connected and this activates recording by the video camera installed in zone 2.

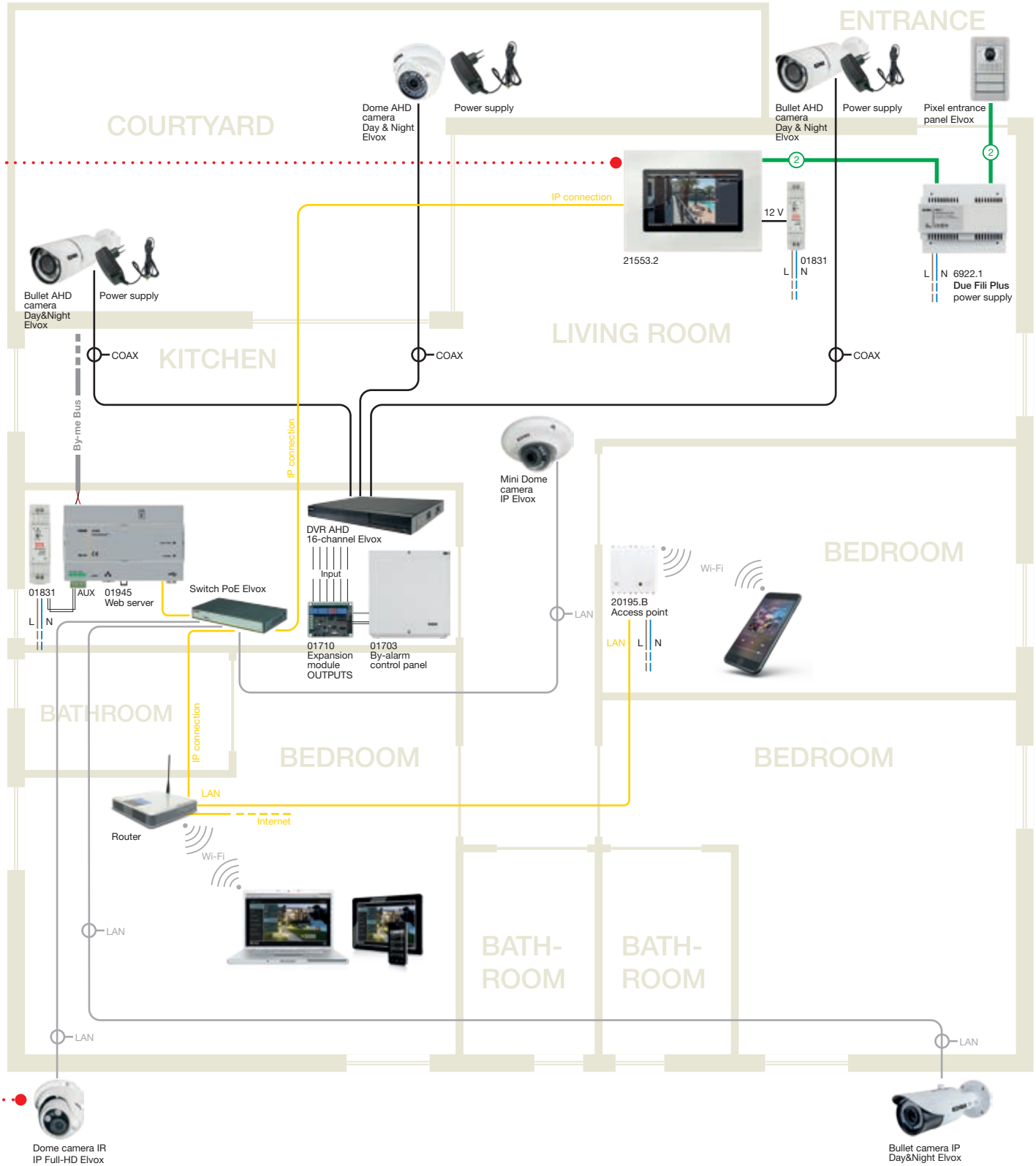
IP video cameras

10" IP multimedia video touch screen for viewing the images captured by the video cameras.

What to do:

Visit the website www.vimar.com, section Support/Video tutorial/Tutorial to watch the video tutorial:
"CCTV - Programming remote access to the DVR".

Typical system: 160 m² villa with video door entry system, CCTV, local and remote supervision.



By-me Bus — Due Fili Plus Bus — Wired connection — Power supply 230 V~ — LAN connection — IP connection — COAX cable

The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual

By-me: home automation

SOLUTIONS

The By-me home automation system consists of a range of intercommunicating devices designed to improve the comfort and safety of everyday life, using automatic devices involving all the installed functions.
The modularity and depth of the range and the segmentation of the series can:

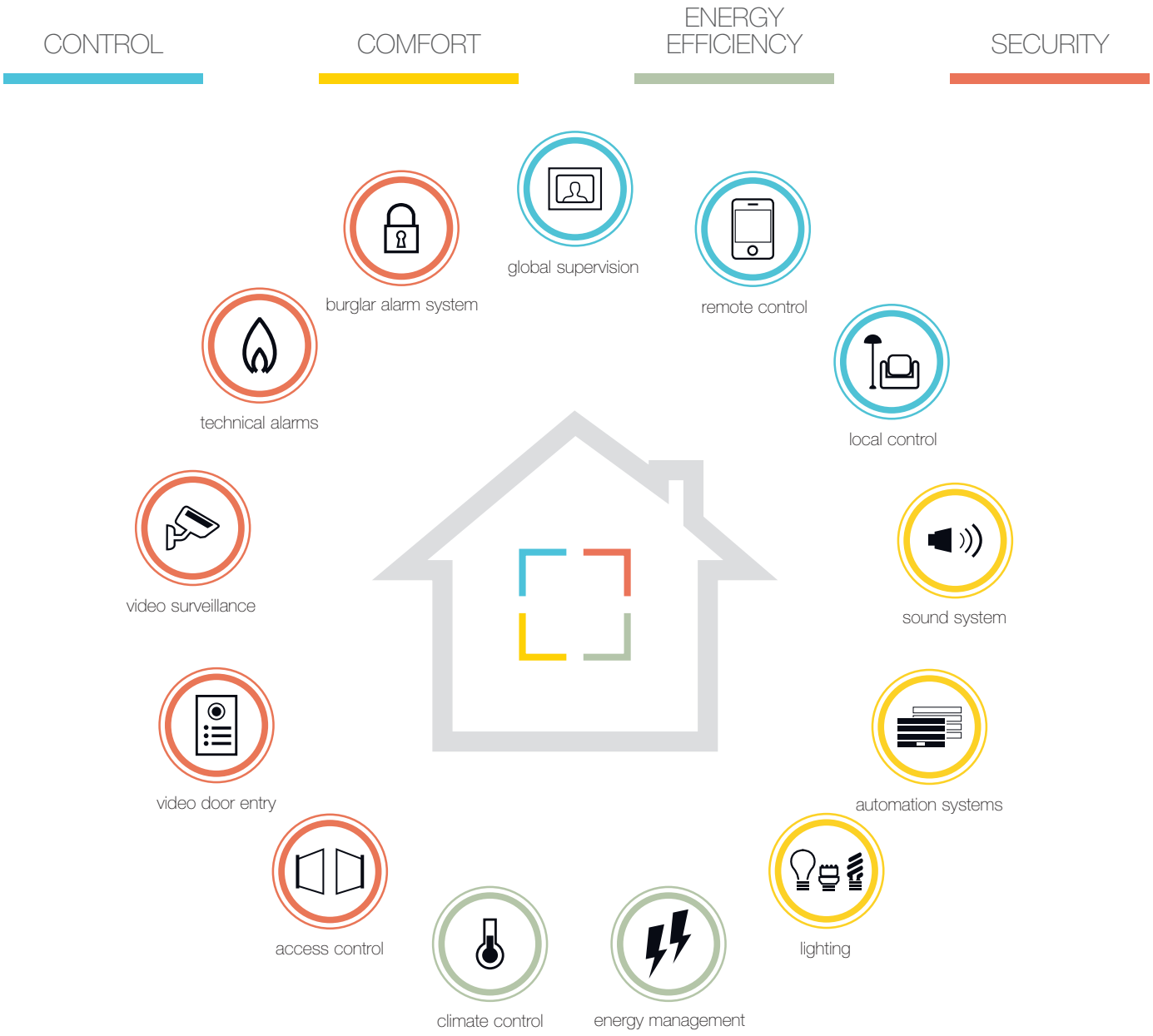
- satisfy functional needs in the **residential** and **small service sectors**, in both **new buildings** and **renovation works**;
- be used for **updating** and **expanding systems** even later on, without any further masonry works;
- meet the aesthetic and price needs of the end user.

In terms of **installation**, the system offers the following strengths:

- simply wiring of the Bus devices, which require no special topological rules;
- rapid configuration of the functional relations between commands and actuators (both via the control unit and via the free **EasyTool Professional** software);
- modular devices for flush mounting, surface mounting, DIN rail or back-box installation of functions.

In terms of **use**, the system offers the following strengths:

- total aesthetic coordination with the Vimar series (Eikon, Idea and Plana);
- complete and transversal integration of all available functions (including safety functions such as video door entry systems, video surveillance, burglar alarm systems and automation), which also carry out complex, controlled or automatic actions (scheduled or according to the conditions);
- full control of local or remote user interfaces, via elegant (video) touch screens or mobile devices (smartphone, tablet and PC) using free apps.



The By-me system is characterised by installation with Bus cable (pair) and therefore the connection between devices is “logical”. Each By-me component, including those which carry out the simplest of functions (push buttons for example) can receive and transmit coded control and warning signals over the bus cable. Information placed on the bus in this way circulates around the system and is only picked up by the designated target devices. Individual control, sensing and actuator devices can be connected at any given point on the bus, in no particular order; functions and logical connections can be defined either by the control unit, programmable via a simple prompt-led menu, or using a PC running the **EasyTool Professional** application. The configuration can be modified to change the correlations and operating conditions of the system, **without any alterations to the wiring**.
The functions of each component can be reprogrammed at any time to ensure the best possible response to user needs. If a component is replaced (such as a command or a relay actuator), the control unit or EasyTool Professional will send the previously designated programming to the new device.
Once the new system has been configured, the **configuration database** will be saved to the PC using the EasyTool Professional application allowing you to clone a new control unit in the event of replacement.
The **EasyTool Professional app can be downloaded free of charge** from the website **www.vimar.com**.

Control

The great advantage of the By-me system is that it allows supervision of all the functions and the centralised management of the whole home. Positioning curtains or roller shutters, selecting climate, lighting and sound system settings, controlling access points, viewing images captured by CCTV video cameras and outdoor stations. Everything can be controlled from a single point, typically a touch screen.
All the functions can be controlled and monitored locally or remotely.

Local supervision occurs via devices installed in each room, used to locally manage the different functions (touch commands, thermostats, touch screens, etc.)

Or with supervisors (touch screens, multimedia video touch screens, etc.) which manage the home from a single control device: by selecting the various environments in the home, all the functions can be controlled.

Remote supervision is assured via the **Web server** which is used to manage the By-me home automation system via a PC, smartphone, tablet or touch-screen with a browser for viewing the web pages. Remote control is assured via a local LAN network or Wi-Fi to:
- supervise and control all the devices in the system;
- view the system status, events log, etc. at any time;
- control the home via the IP video cameras.

For mobile devices the **By-web** app is available (free download from Apple Store, Google Play) which, by using the Wi-Fi connection for local control and the Internet for control away from the home, offers rapid access to the By-me system functions.

Moreover, using a mobile phone, it is also possible to interact with the system via **GSM phone communicator,** so controlling and monitoring the status of the devices in the system, changing the relative parameters, programming the system and running diagnostics operations.

Comfort

Each room in the home will become an oasis of well-being where you can find your favourite comfortable conditions.
You can dim the lighting to create welcoming relaxation areas, manage the sound system, position curtains or roller shutters to give the right amount of light for various daytime activities, adjust the brightness of different lamps (conventional and energy-saving) or create interplays of light and music: all this is possible with a simple parameter setting.

Scenario: a function that allows the user to "retrieve" a preferred set of conditions via a single command or event; creating a scenario at the control unit or on a computer is simplicity itself.

Event: a program that enables/disables groups and/or scenarios under specific circumstances and/or at selected times, according to simple logic rules governed by the control unit.

10" IP Multimedia video touch screen

Remote supervision and control of system

Logics: via the logic unit 01468 control and monitoring functions can be managed (delays, mathematical functions, calendars, etc.). The logics are defined with the EasyTool Professional software.

With the different comfort functions we can manage:

sound system. The **multiroom** sound system mode with Bus cable is used to play music from one or more audio sources via the speakers in each room. Moreover, using devices with Bluetooth® wireless technology eliminates linear connections and unlimited local sources can be added: simply activate Bluetooth® on your smartphone for automatic connection, and play your music in any room.
The controls in the multiroom system are equipped with a line-out output and can be connected to power amplifiers to obtain maximum power and high-fidelity sound quality.
The multiroom system integrates perfectly with the By-me home automation system, and can split the system up into a maximum of 60 separate audio zones, with independent programming of the sound levels in each zone; other functions offered by the system include microphone calls, audio monitoring and "baby control". All the audio functions can be integrated with automated scenarios and automation system events (clock radio function for example).

Lights and roller shutter automation. Thanks to the use of programmed switches, which may also incorporate an actuator, roller shutters can be raised and lowered (likewise Venetian blinds, slat angle) and lights can be turned on and off or dimmed, to create just the right level of comfort in every room.

Energy saving

In a conventional electrical system, the climate and energy control is assured via local devices which are not integrated with one other; with By-me on the other hand, there is full integration, and this offers many additional functions, ensuring concrete advantages in terms of saving money and well-being .
Managing energy with evolved solutions to optimise, measure and monitor electric and other consumptions, managing loads to prevent black-outs from overload, controlling the smart distribution of photovoltaic energy, understanding the energy profile of the home: these are all more socially responsible ways of ensuring energy efficiency.

Temperature control. Temperature control can be programmed in a scenario, for example, the system can be set up so that whenever the home is left empty, the temperature is automatically switched to stand-by mode, simultaneously lowering all the


Passive speaker 10 W RMS


sound system control switch


Bluetooth® *wireless technology* interface

Touch screen thermostat

roller shutters and activating the burglar alarm system, so avoiding any unwanted and costly oversights.
The temperature can be raised or lowered as and when rooms are occupied or empty, or windows are opened and closed, using the same sensors and magnetic contacts as for the burglar alarm system, which in this instance become dual-purpose, providing both control and efficiency.
In addition, the climate throughout the home can also be monitored and controlled —room by room or zone by zone — not only from a single central location, such as a touch screen, but also remotely, using a smartphone or tablet.
The system can manage up to 40 different climate zones when thermostats are installed; the control unit or supervisors allow them to work as timer thermostats (automatically, manually, etc.).

Energy management. Another important function the system offers is **energy management**, optimising consumption and avoiding waste, by controlling the loads.
This function switches off the loads identified as non-priority, avoiding annoying black-outs when the energy take-up exceeds the contractual values and it promotes **self-consumption** of energy by the photovoltaic system, for example, sending the energy produced to household appliances.
Besides monitoring the consumptions of the system, the displays of the various touch screens, PCs or tablets used for control purposes can display present and past usage levels for both electricity and other monitored utilities (e.g. water, gas, etc.), so that the use of energy resources in the home can be kept permanently under control.
The function is organised in three main menus:

- *Load control*: operating via the load control module, this allows the user to monitor the amount of electricity being consumed in order to prevent overload breaker tripping and, if necessary, disconnect the monitored loads according to their priority. Single-phase and three-phase systems with or without photovoltaic generation can be managed, with a maximum of 16 priority groups.
- *Measurement control*: up to 20 By-me groups can be used to configure power meters, actuators or pulse counter devices for the purpose of displaying data on a By-me touch screen or Web server.
- *Alarms management*: the groups in which the actuators are configured can be displayed showing the measurement of the current, and any alarms that might be tripped by these actuators can be displayed and/or reset.

To check on power consumption, while also taking account of energy that may be produced by a photovoltaic system, the load control module must be installed. This is managed by the control unit in the same way as the other devices in the system.
The load control module can restore disconnected services automatically, as soon as the total energy absorption of the system returns to a level below the set level.

Full flat touch screen with Energy Guard function


3-module Full Flat colour touch screen


Electronic temperature and humidity sensors


Load control

Security

By-me integrates with the **By-alarm** burglar alarm system, the **Elvox CCTV** video surveillance system and the **Elvox Video door entry system**, to continuously monitor the building even remotely via the free apps available for mobile devices. IT IS also possible to include **technical alarms** in the system to protect from gas leaks, fumes, water leaks, etc.

By-alarm: a professional burglar alarm system with quality **certified to CEI EN 50131 (grade 2)**.
The system protects the home against intrusion from the outside, can be configured in stand-alone mode or expanded with a wide range of devices, and can be incorporated into the By-me home automation system.
The stand-alone solution can be installed extremely easily, via a wired connection and a RS485 bus cable and expands as required both via Bus and via two-way radio, to control a series of alarm devices using a highly reliable protocol, and manage up to 64 devices in each of the 8 areas/partitions.
The system is configured with the **By-alarm Manager** software (downloaded free of charge from the website www.vimar.com) or via the keyboard.
The **By-alarm burglar alarm system** that can be incorporated in the By-me system via Web server (01945, 01946) and Ethernet interface (01712), is composed of a 24 zone (art. 01700) or 64 zone (art. 01703) control unit, to which the wired sensors and sirens for indoor and outdoor use are directly connected; the keypad, flush mounting connectors, Input/Output modules and radio frequency interface are connected to the RS485 Bus cable coming from the control unit. The Input expansion modules are connected to the flush mounting and/or surface mounting detectors and wired sensors.
The **system is star wired** to the control unit which, for the wired inputs acts as a star centre.
It is integrated with the By-me home automation system via a protected IP connection with the Web server (01945, 01946) guaranteeing safe connectivity, and its functions can be managed, monitored and supervised using the By-web app on a video touch screen, PC, smartphone or tablet.

Elvox CCTV (video surveillance). The By-me system can be combined with a CCTV system that will scan the entire property using both outdoor and indoor video cameras, some of which are extremely compact, capable of operating in any ambient conditions: daytime, night time and even in total darkness. The feed from the camera can simply be viewed on a touch screen or other type of monitor (TV monitor included) or recorded, processed and transmitted to a remote location if necessary for viewing on a PC, smartphone or tablet.
It is possible to create simple and flexible video surveillance and ambient listening systems capable of meeting the installation requirements in residential settings and in the service industry. For integration with the By-me home automation system, video

10" IP multimedia video touch screen with video surveillance function

4.3" Full Flat video touch screen with By-alarm screen

Gas detector connected to Bus by way of contacts interface

Siren for indoor use

cameras and **supervisors** are required (video touch screen 21553.2 and 21554 or video entryphone 3.5" 19558 with control module 01965).
The **Web server** in the home automation system is used to view the live recordings from the IP video cameras installed in the CCTV system remotely (from PC, tablet or smartphone).

Elvox Video Door Entry System. With video touch screens and video entrance panels, occupants of a home can communicate with callers and manage all the functions associated with the Due Fili Plus video door entry system (opening electric locks, switching on stair and landing lights, etc.).
And with security in mind, the video entryphone system will also give a perfectly clear, high definition image of whatever is happening outside.
Thanks to the dialogue between the advanced video entrance panels and indoor stations, an occupant can always see clearly who the caller is, and so decide whether or not to open the door.

Technical alarms. Protecting the home from environmental damage is important, and this can be done using dedicated sensors (**technical alarms**) which detect any possible gas leak or signs of a flood and, thanks to integration with the By-me system, activate an optical and acoustic signal, send an alarm message by SMS (using GSM communicators) or e-mail, and automatically shut off the solenoid valve controlling the power supply, to make the environment completely safe.

The detectors listed below can be connected to the By-me Bus via the contacts interface, the module with 9 inputs and 8 outputs all pre-programmed for DIN rail and the modules with programmable digital inputs (retrofit), or to the inputs on the By-alarm control unit:
- *gas detectors* (LPG and methane): these will sense when there is an excessive amount of gas in the air, emitting an optical and acoustic signal and piloting the operation of a solenoid valve downstream of the meter to shut off the flow of gas;
- *carbon monoxide detector*: warns of danger by emitting an audible and visual alarm signal; the device will also pilot the operation of a solenoid valve either to shut off the flow of gas or to shut down the boiler;
- *smoke detector*: indicates the presence of smoke by emitting an audible and visual alarm signal.

If the detectors are connected to the **By-me Bus**, all faults will be signalled through:
- *the controller* which will display the alarm message;
- *the GSM phone communicator* by sending a message to a mobile or landline number.

If on the other hand the detectors are connected to the **By-alarm system**, the faults will be signalled by:
- *the By-alarm control unit* showing the alarm on the By-alarm keyboard display;
- *By-alarm Dual Band GSM communicator* to a mobile or landline number.

4.3" Full Flat video touch screen and video entryphone function


2-module video camera with illuminator

TECHNICAL CHARACTERISTICS

By-me operates on the principle of distributed logic: intelligence not centred on the controller, but shared between the devices making up the system. The functional correlations between the devices are configured in such a way as to create functions directly accessible by the end user.
For example, to switch on a light a **functional group** must be created, containing at least one control functional unit and one actuator functional unit.
Functional units are logic cells that can perform just one function. Physical devices are designed to control one or more functional units. For example, a switch with two rocker buttons contains two functional units that can be used alone to control 2 different loads. With the By-me system, up to 480 functional groups can be created for each controller (these are also configurable on a computer running EasyTool Professional software), using any of the various functions available (automation, climate control, sound system, etc.). The medium of communication is the **Bus cable**; each Bus line (a pair of polarized conductors providing the interconnection between the various components of the system) can accommodate a maximum of 128 devices (push buttons, actuators, thermostats, touch screens, etc.), whilst the maximum length of the Bus cable is **1000 metres**. Described below are the concepts of *functional unit*, *functional group* and *group depth*.

- **Functional unit**: part of a device that can be considered as if it were an independent function (Fig. 1). Some examples:

1. device with one functional unit: the functional unit is equivalent to the device itself, for example an actuator with 16 A 250 V~ changeover relay output (Eikon 20535; Arké 19535, Idea 16975; Plana 14535);
2. device with two functional units: in the interface for conventional controls (Eikon 20515, Arké 19515, Idea 16955 series, Plana 14515), each of the two inputs is a functional unit;
3. device with seven functional units: in a control component with 4 push buttons and actuator (Eikon, Arké and Plana series 01481) there are seven functional units: top left button, bottom left button, top right button, bottom right button, left rocker button, right rocker button and relay actuator, which in terms of configuration and operation are in fact seven distinct devices.
4. device with ten functional units: in a control component with 6 push buttons and actuator (Eikon, Arké and Plana series 01487) there are ten functional units: top left button, bottom left button, top centre button, bottom centre button, top right button, bottom right button, left rocker button, right rocker button, centre rocker button and relay actuator, which in terms of configuration and operation are in fact 10 distinct devices.

Fig. 1 - Functional units

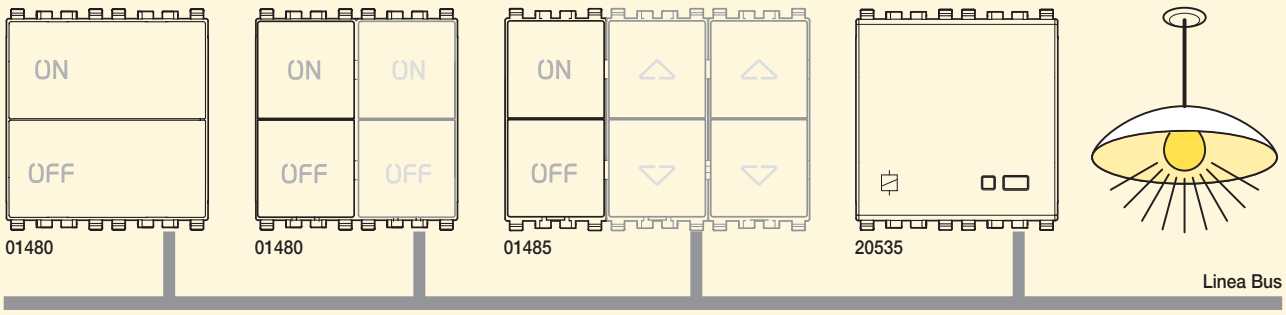
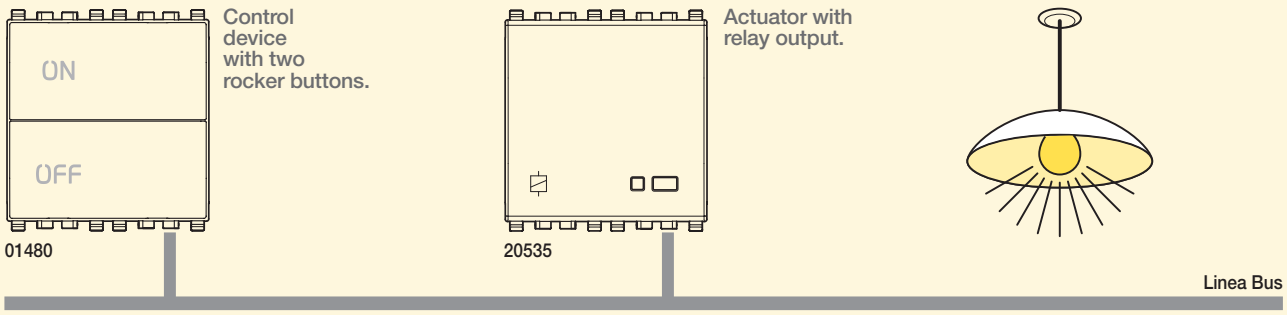


Fig. 2 - Functional group



Groups must comprise only functional units of the same basic type: no single group can incorporate a roller shutter actuator and an actuator for switching on a lamp.

To switch a load on and off from different points in the home, it will be sufficient to add extra functional units to the group; there is no need to disturb the wiring.

- **Functional group (or Group)**: set of functional units connected logically with one another to provide one function of the system (for example: three different buttons operating a single actuator and consequently controlling a single load). The devices making up a functional group are connected to each other logically, and not by a conventional wiring arrangement (Fig. 2).
- **Group depth**: number of groups to which one functional unit can belong. Each functional unit can belong to a maximum of 4 different groups (Fig. 3).

Fig. 3 - Group depth

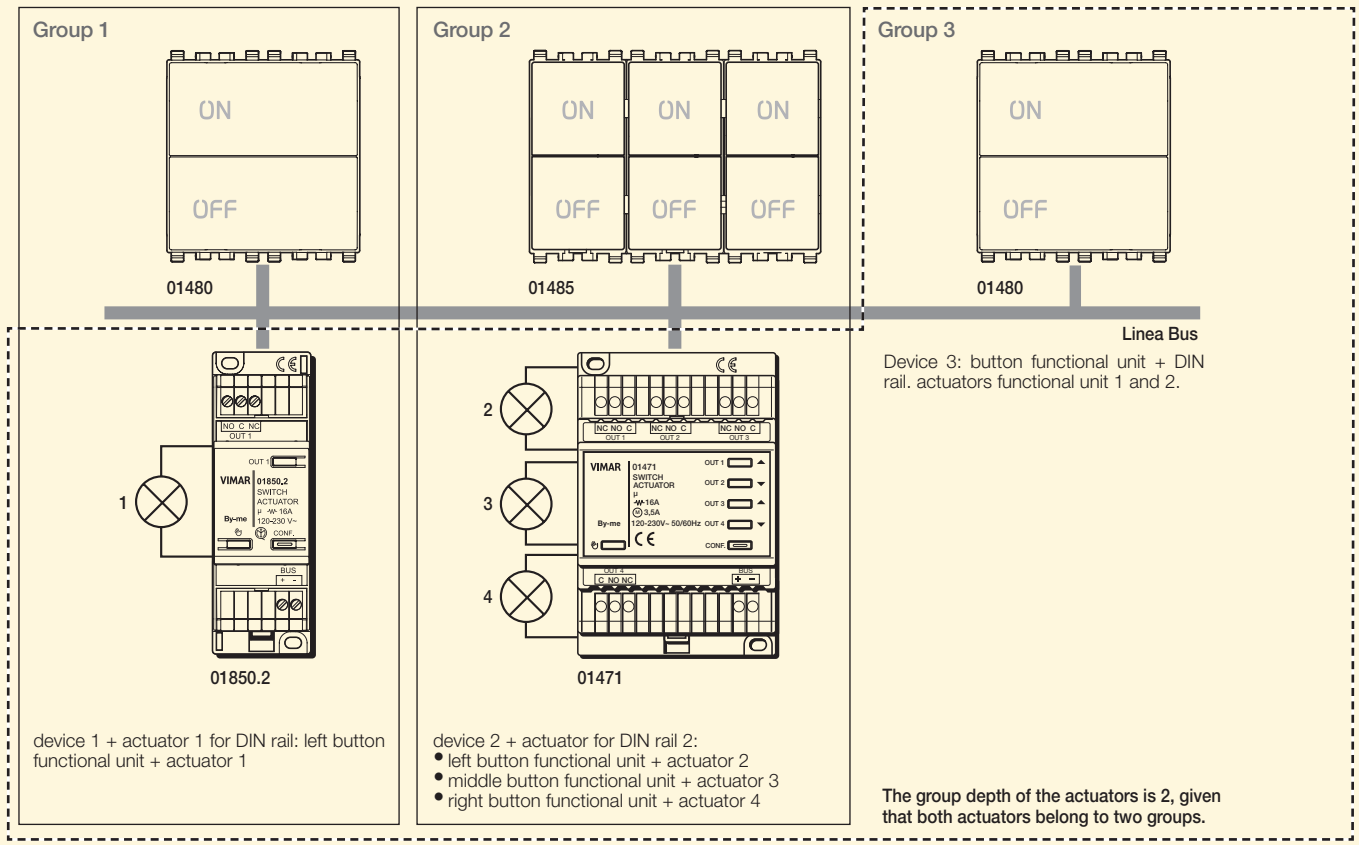
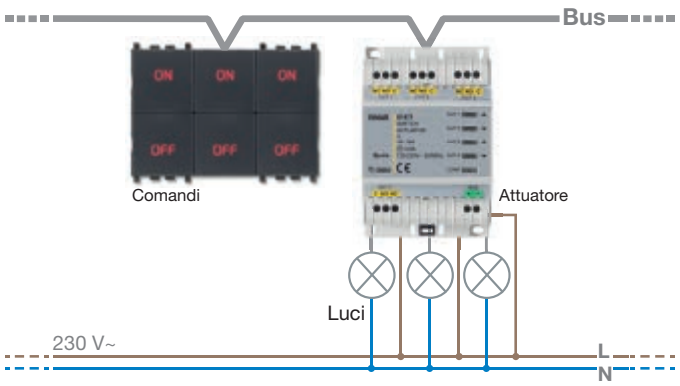


Fig. 4 - Example of multiple functional units (controls/actuators)



Line installation topology

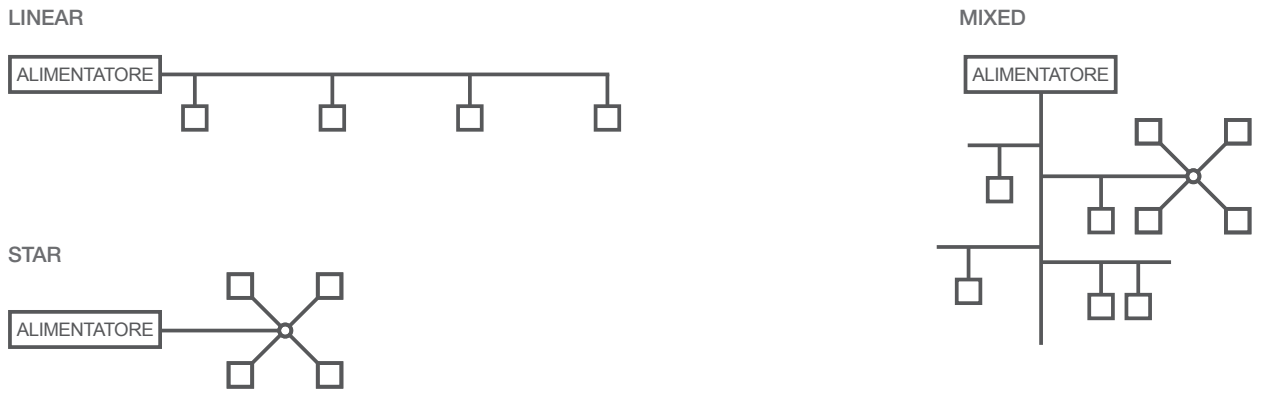
The By-me system is designed in such a way that the devices of a given line can be connected in practically any order, with the exception of **sound system** devices (refer to "Installation rules" in the "sound system" chapter).
The cable for Vimar Bus systems (01840 for automation and 01840.E.B for the sound system) (2x0,5 mm^2) is insulated for 400 V rated voltage to earth and can be routed along the same ducts used to carry category I power cables. In the case of new buildings, it is good policy to install a separate dedicated duct for the Bus cable.

When installing the system, it is advisable to select consumer units of the appropriate dimensions and, depending on the types of devices adopted and the number of loads to be handled, to fit a suitably generous number of flush mounting 3 and/or 4 module back boxes (V71303 and/or V71304).

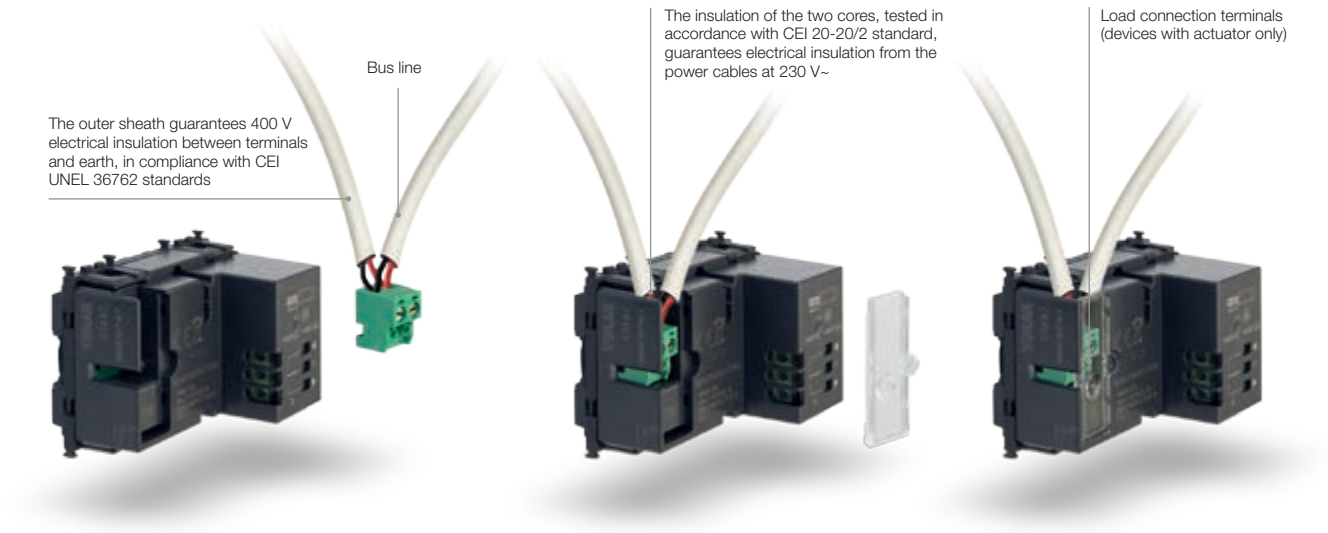
The following basic requirements must always be taken into account when designing the system:

- maximum distance between 1 power supply and the last device: **350 m**;
- maximum distance between two components: **700 m**;
- maximum length of the Bus cable for one line: **1.000 m**;
- minimum distance between two power supplies on the same line: **40 m**.

Line installation topologies



Connecting the Bus cable



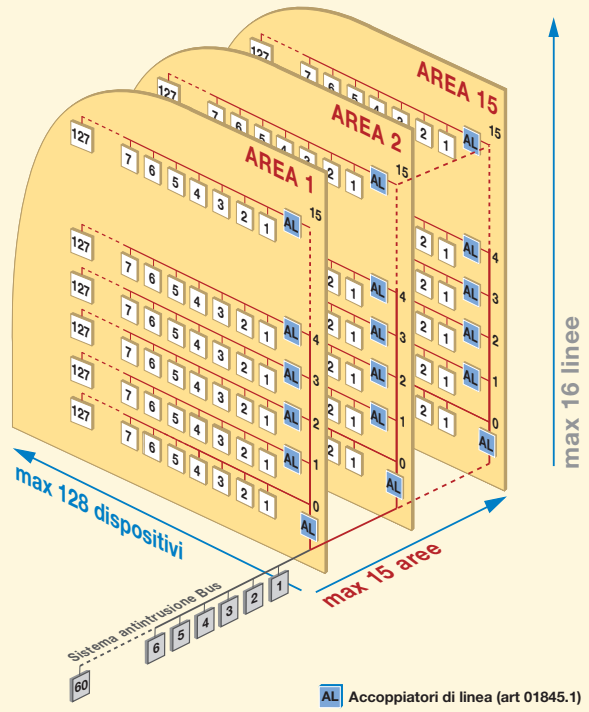
System architecture

Two methods are available for programming and configuring the system: by way of the central controller, or from a personal computer running the **EasyTool Professional** application. The various devices are connected to one another by way of a **Bus cable**.
The architecture offers the possibility of organising the system according to a structure of **15 areas** connected to a backbone (Area 0, Line 0 call). Each of the 15 areas can be split into **16 lines**, each connecting up to **128 devices**.
The lines are connected with one another by way of couplers (routers) that only allow the passage of the messages established at the time of programming the system. Each line will be connected to 1 or at most 2 power supplies, depending on the absorption of the devices installed.

The system allows the creation of **scenarios** (max 32), which when selected will retrieve certain preferred settings; (lights On/Off/dimmed, roller shutters up/down, climate control On/Off, etc.). The simultaneous activation of these settings serves to create a particular atmosphere or respond to a given situation.
Through the creation of custom programs or **events** (up to 16 different programs are available), the system allows users to ensure that automated functions cut in at a selected time or when certain conditions occur.
Accordingly, multiple actions can be programmed to take place at a given time, for example: when getting up in the morning, the light switches on at a selected dimmer setting, the sound system comes on, the roller shutter is raised and the towel rail warms up in the bathroom.
Clearly, the programming of the system can be customized according to the nature of the rooms and the way that the various devices are used (for example by changing the names of groups, scenarios, parameters, programs, etc.).

In the By-me system, the **logic unit** (art. 01468) is used to define complex logics.
It is possible to:
- create relationships between blocks of the By-me system organised in various ways, setting them in relation via logic gates, delay blocks and mathematical functions;
- define **virtual scenarios**;
- define action plans ("timelines"), with different types of frequency, duration, validity periods, etc.

Division into Areas and Lines.



BY-ME

PROGRAMMING AND CONFIGURATION

Programming from the control unit

The 3-module control unit is used to configure the system for the management of lights, roller shutters/slats, climate, scenarios, events (which can be activated at set times and/or when certain situations occur), loads, sound system; all menus can be viewed on a highly user-friendly graphic interface that is therefore very simple to use, both during the operation phase and during the configuration of the system.
With the **touch screen** display, which means there are no keys to press; instead, all functions and settings can be selected simply by touching the relative icon or text with a fingertip, or using the stylus provided.

Flush mounting controller 21509 with Eikon Evo cover plate

A number of passwords can be configured from the control unit, making it possible to control user access to the various functions selectively and to view the last 80 events logged (enable/disable, alarms and the devices by which they were tripped, etc.).
Similarly, the thermostats can also be programmed (daily and weekly settings) from the controller.

The device can be installed either in a 3-module flush mounting back box (V71303), or using the special DIN rail mounting frame (60715 TH35) (V51923 and V51921) included in the pack with the controller.

Controller 21509 with connector for programming RJ45 panel on frame mountable to DIN rail (60715 TH35)

Main screens of the controller
Once the controller has been installed and powered up, icons for the following main menus are shown on the touch screen display:
- HVAC;
- Temperature probe;
- Scenarios;
- Event programmer;
- Energy management;
- Audio;


Stylus supplied with controller 21509

The main menus can be selected simply by touching the name of the one required; thereafter, depending on the type of touch, the user can access and set all the parameters of the sub-menus for configuration, management, diagnostics and operation of the By-me system.

Operating mode		
Tap	Short, single touch	
Press	Long press	
Flick	Quick swiping action, where the point of release is not significant	
Drag	Sliding movement where, unlike the flick, the finger is released only after establishing the final position for a given fraction of time; equivalent to the action of dragging a virtual object with the fingertip	

Main Menu

Automation Groups / Stair Lights Menu

Programming from PC

The **EasyTool Professional** software, **which can be downloaded free of charge** from the website **www.vimar.com**, is used for all configuration, programming and maintenance operations for all devices in the system, guaranteeing full management.

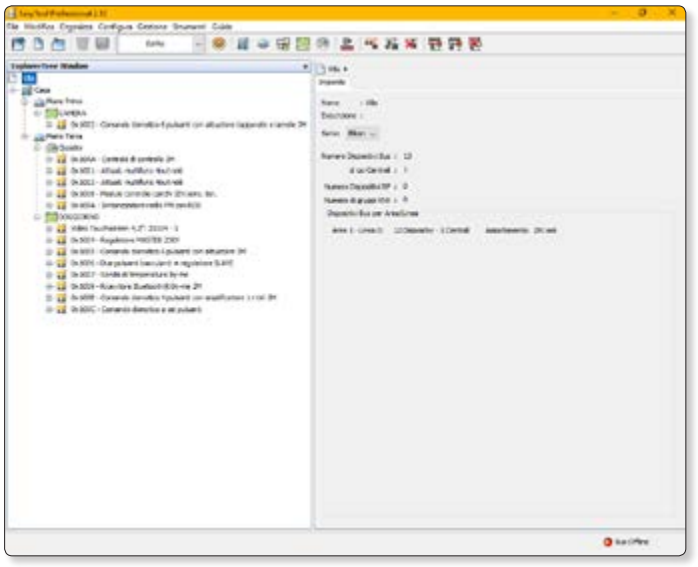
System requirements for installation of EasyTool Professional	
PC processor	Pentium 4 or above
RAM memory	2 Gb (recommended)
monitor resolution	1024 x 768 pixel
free space on hard disk	1 Gb
operating system	Windows 7®, Windows 8®, Windows 10® and later

Can also be installed on 32 bit or 64 bit systems

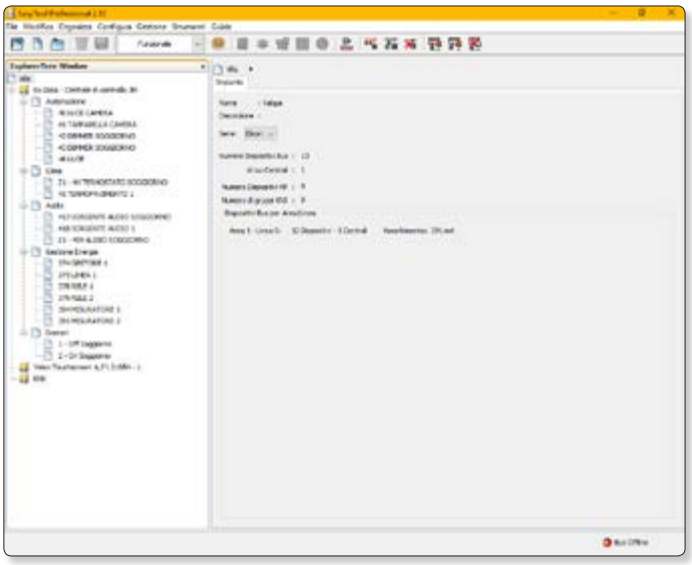
Specifically:

- **the software is unique for the configuration of the system** and besides programming the devices (control unit, touch screen, GSM communicator) individually, it is used to configure and maintain the entire By-me system;
- **extremely easy to use**: with Wizard guided procedures, the application displays all the necessary information for carrying out every operation;
- **highly flexible and user-friendly interface** that allows the application to be used with simple "drag & drop" operations;
- **considerably fast configuration** for both small and large systems and for identical systems (cloning function);
- **dual system viewing function:** functional view and topological view enable the user to locate the devices dividing them by function or position;
- **system maintenance is made easier** since the organisation and graphical presentation of the data, in case of extensions and/or malfunctions, are immediately comprehensible even for different installers who have never worked on the system before;
- **advanced diagnostics functions** that allow real time viewing not only of the fault warnings but also of the status of the devices;
- **"Bus monitor" function** to view the data transiting over the Bus;
- **"Check for Update" function** to update all parts of the software, including firmware for the control unit, touch screens and GSM communicators.
  The installer can download the latest firmware versions released by Vimar and load them in the devices. In addition to this, it will be possible to update images, documentation and update Web server firmware;
- **"Client/Server" function** for installing the program on two different computers. Having configured a (domestic) network, preferably Wi-Fi, one of the two computers acts as Server and the other as Client. The Server is connected to the Bus via interface 01847 USB/By-me.
  The Client accesses the data on the Server and can activate the various program functions, moving freely around the rooms in the system. The advantage of this function is to allow the installer to approach the device and press the configuration push buttons without having to return to the PC to complete the operations. The limitations are determined by the Wi-Fi signal transmission/reception power limits;

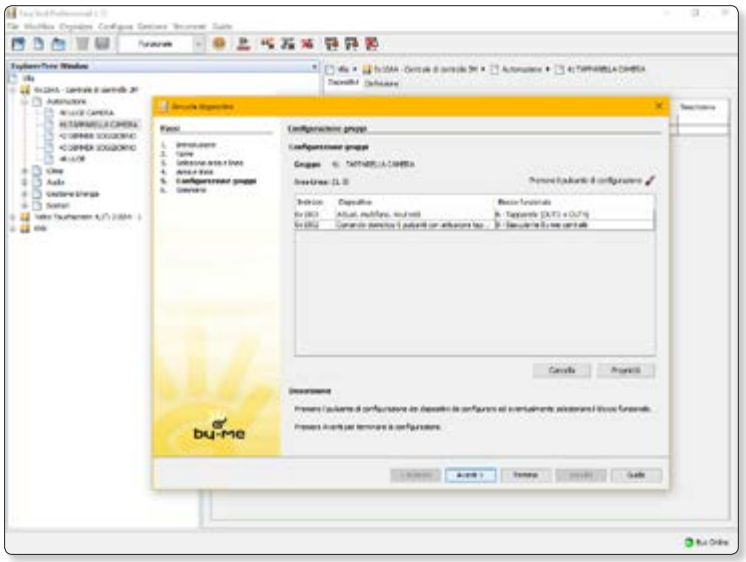
The application is compatible with operating systems Windows 7, 8, 10 and later and can also be installed on both 32 and 64 bit systems.



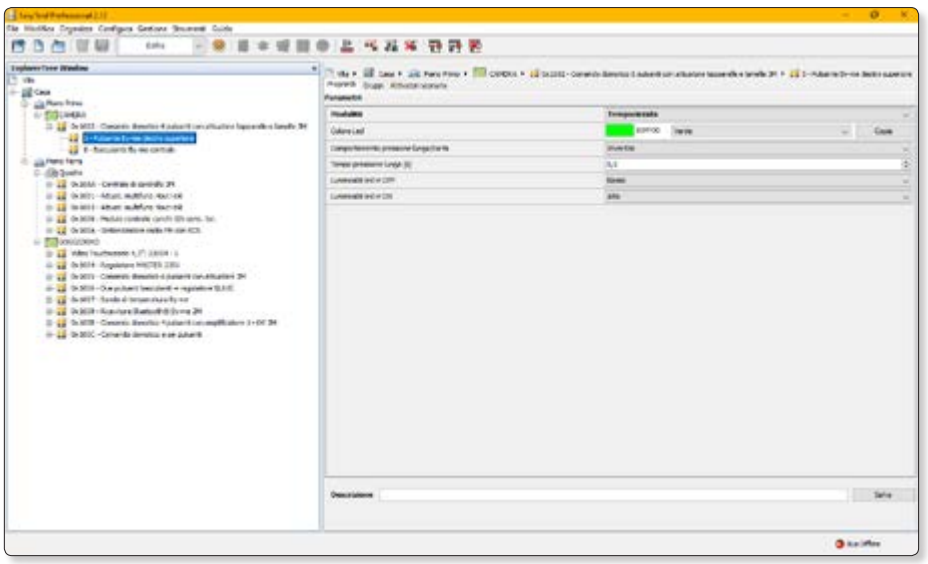
"Buildings" window



"Functions" window



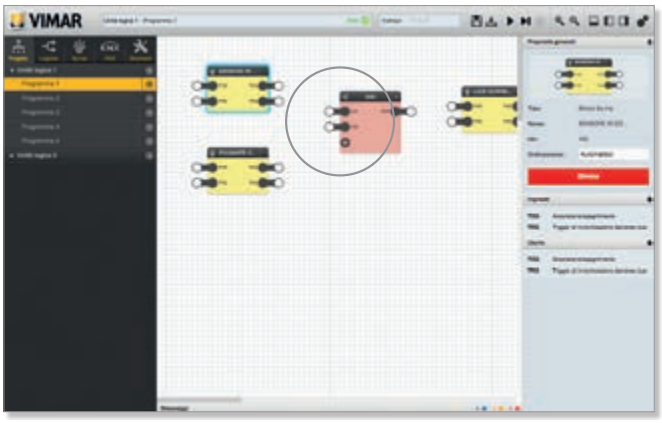
"Group configuration" window



"Parameters" window

Logic configurations

The device (art. 01468) is used to make one or more logic networks, called "**programs**", which typically receive information from the By-me bus (= *inputs*), process it via logic blocks (= *logics*), and send the results in the form of commands over the bus (= *outputs*). Programming is done via the dedicated EasyTool Professional interface (editor) for configuring the Logic Unit (example to the side).

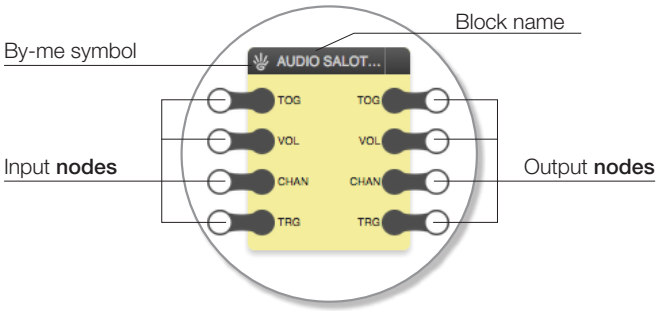


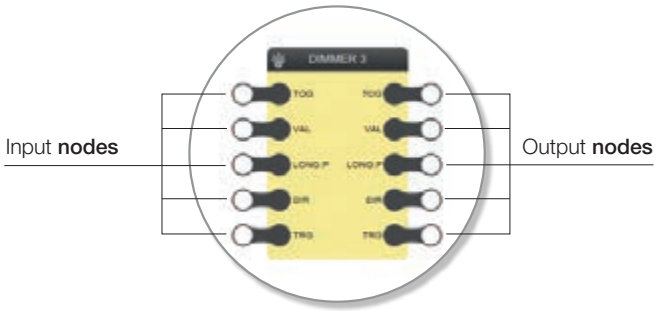
Programming editor window.

Inputs

The input may be:
- the status of the devices enrolled in the system, without any limitation;
- instants or time intervals (day, week, etc.);
- Boolean or numerical variables.

Examples of By-me blocks

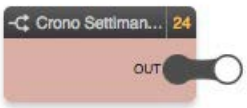




The **By-me blocks** are shown graphically as in the example above and are characterized by a yellow background.
With By-me blocks, the **input nodes** are used to send commands to the Bus following the processing by the logic programs; the available nodes depend on the type of By-me group; the **output nodes** are used to receive statuses from the Bus and use them in the logic programs; the available nodes depend on the type of By-me group. In the case, for example, of a "Dimmer" group (example shown above) two different types of data are available both as inputs and outputs:

- **TOG ("toggle")**: switching the dimmer on / off;
- **VAL ("value")**: dimmer percentage;
- **LONG.P:** start/end long press;
- **DIR:** long press direction.

Example of "Time Planning (weekly timeline)".

Description:	**Used to set weekly planning** The block has value 1 or 0 depending on the time and day of the week, according to the programming set in the editor or by the end user via the web server or touch devices			
Preview:				
Nodes:	**TAG**	**Description**	**IN**	**OUT**
	OUT	Planning status *Possible values:* 0 → OFF, 1 → ON		•
Options:	Plan	Planning button, used to open the planning pop-up to set when the output has to be set to ON		

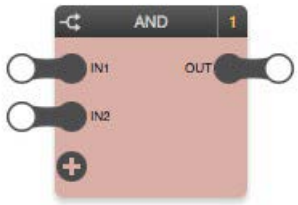
Graphic popup for weekly programming

Logics

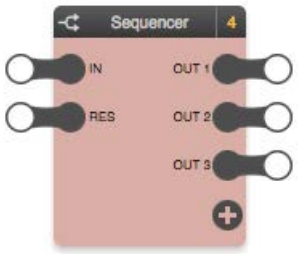
The logics may be:

- combinatory logics (**and**, **or**, **not**, **xor**);
- sequential performers (**sequencer**, **binary scenario, numeric scenario**);
- status logs (**T type**, **or RS type flip flop**);
- comparison operators (**more than**, **more than or equal to, less than**, **less than or equal to**, **different from**);
- operations (**maximum, minimum, average, sum**, **subtraction**, **multiplication, division, absolute value**);
- time delays and hourly programming.

Example of "Combinatory logic".

Description:	**Performs the AND logic function between two or more binary inputs (up to a maximum of 10)**			
Preview:				
Nodes:	**TAG**	**Description**	**IN**	**OUT**
	IN1 … IN10	Input 1 … 10 — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	OUT	Output — *Possible values:* 0 ➜ OFF, 1 ➜ ON		•
	+	Add node	•	

Example of "Sequencer".

Description:	**According to the input status IN, it toggles in sequence up to 10 boolean outputs, keeping each of them active for a settable time**			
Preview:				
Nodes:	**TAG**	**Description**	**IN**	**OUT**
	IN	Start sequence — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	RES	Reset sequence — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	OUT1 … OUT10	Output 1… 10 — *Possible values:* 0 ➜ OFF, 1 ➜ ON		•
	+	Add node		•
Options:	Cyclical sequence	Determines whether the sequence should be repeated once completed *Possible values:* True/False		
	Step duration 1 … 10	Waiting time between step X and the next — *Possible values:* from 1 second to 12 hours. The step is 1 second and can be specified in the format HH:MM:SS (hours, minutes, seconds)		

Example of "State logs".

Description:	**T flip-flop** Works as a step-step relay. Whenever a rising edge is proposed to the input (TRG) the output (OUT) changes status. If the LCK input (Block) is 1 (True) the effect of the TRG is inhibited and the output never changes. If the input PRT (Priority) is 1 the output takes on the value set in the parameter "Priority value". It may be used for example to control the lights in a corridor. The light can normally only be controlled if a brightness threshold is satisfied (this condition is managed in the LCK) and if it is in any case always on at night (Flag connected to the PRT input)			
Preview:				
Nodes:	**TAG**	**Description**	**IN**	**OUT**
	TRG	Trigger — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	LCK	Locks the current state — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	PRT	Priority flag — *Possible values:* 0 ➜ OFF, 1 ➜ ON	•	
	OUT	Output signal — *Possible values:* 0 ➜ OFF, 1 ➜ ON		•
Options:	Priority value	Value to assign to the output for a priority flag — *Possible values:* TRUE/FALSE		

Example of "Comparison operators".

Description:	**Compares the value of the two inputs, and gives as output a TRUE/FALSE value according to the specified operator** *Available operators:* • Greater than • Greater than or equal to • Less than • Less than or equal to • Equal to • Different			
Preview:				
Nodes:	**TAG**	**Description**	**IN**	**OUT**
	IN1 IN2	Input 1, input 2 — *Possible values:* any numerical value	•	
	OUT	Result of comparison — *Possible values:* 0 ➜ OFF, 1 ➜ ON		•

Example of "Comparison operators".

Description:	Performs a mathematical operation on the inputs, according to the type of operator	*Available operators:*	• Maximum • Minimum • Average • Addition • Subtraction • Multiplication • Division • Absolute value • Log 10
Preview:			

Nodes:	**TAG**	**Description**		**IN**	**OUT**
	IN1 IN2 (*) ...	Input 1, input 2 ...	*Possible values:* any numerical value	•	
	OUT	Value (result of the operation)	*Possible values:* any numerical value		•

Outputs

The outputs may be:

- the status of the devices enrolled in the system, without any limitation;
- Boolean or numerical variables.

Example of "Boolean variables".

Description:	**Used to transfer a boolean value between different programs.**
Category:	Binary variables
Preview:	

Nodes:	**TAG**	**Description**		**IN**	**OUT**
	VAL	Value to assign to the variable	*Possible values:* any numerical value	•	
	VAL	Current value of the variable	*Possible values:* any numerical value		•

The logic unit is used to implement **new advanced functions** in the By-me system:

Self-consumption with proportional activation of resistive loads.

According to the availability of excess energy produced by the photovoltaic system in relation to the home consumptions, it is possible to activate a load proportionally (for example battery chargers, boilers), to **maximise self-consumption**, or minimise the energy exchanged in the network.

Self-consumption, with activation of load switch-off if there is no energy available from the photovoltaic system exchanged in the network.

To maximise self-consumption, it is possible to plan manual programmed activation on one or more household appliances, with **automatic start-up in a time band with probable excess production**: the logic can check the effective excess availability just before the planned start-up, and switch off the load if the conditions do not allow the load to be maintained active only by the energy coming from the photovoltaic system alone.

Self-consumption with activation of the heat pump.

If there is excess energy available from the photovoltaic system, it is possible to activate a heat pump for heating (in the winter) and cooling (in the summer), maintaining it active until the temperature comfort is reached or as long as energy parity is maintained, or until a take-off value tolerated in a specific, most advantageous consumption band is tolerated (for example F23 in the case of a two-tier contract).

Activation of differentiated scenarios according to time bands.

For example, an “input scenario can open the roller shutters (during the day) or switch on the lights (in the evening).

Presence simulation.

IT IS possible to establish a set state variation sequence simulating the presence of people at home: this is a further deterrent which can be combined with an burglar alarm system.

Automatic switching on of outdoor lights with dusk/dawn sensor or manual via button controls.

In the evening/night band (for example from 8 pm to 6 am) it is possible to condition the switching on of the outdoor lights determined by a dusk/dawn sensor or it is possible to switch them on manually via a dedicated On/Off command.

Dehumidifier management via humidity probes.

It is possible to adjust the delivery temperature of an underfloor heating system to prevent the dewpoint from being reached (and thus condensation from forming) according to the humidity values read by several probes and if required activate the dehumidifiers in specific zones.

Remote management via smartphone with By-web app

Remote management via 4.3” Full Flat video touch screen

Remote management via 10” IP multimedia video touch screen

The Logic Unit is used to **improve some characteristics** of the By-me system.

Extension of By-me scenarios.

If the By-me system provides for a maximum of 32 scenarios and the Scenario Depth is limited to 4 for each device, using the Logic Unit it is possible to associate a sequence set operations (**virtual scenario**) to a command (= scenario actuator) and therefore activate an unlimited number of scenarios (32 base + virtual scenarios).

Up to 64 programmes.

The By-me system manages 16 events from the control unit; using the Logic Unit it is possible to create up to **64 complex programmes** having many more types of logic blocks available.

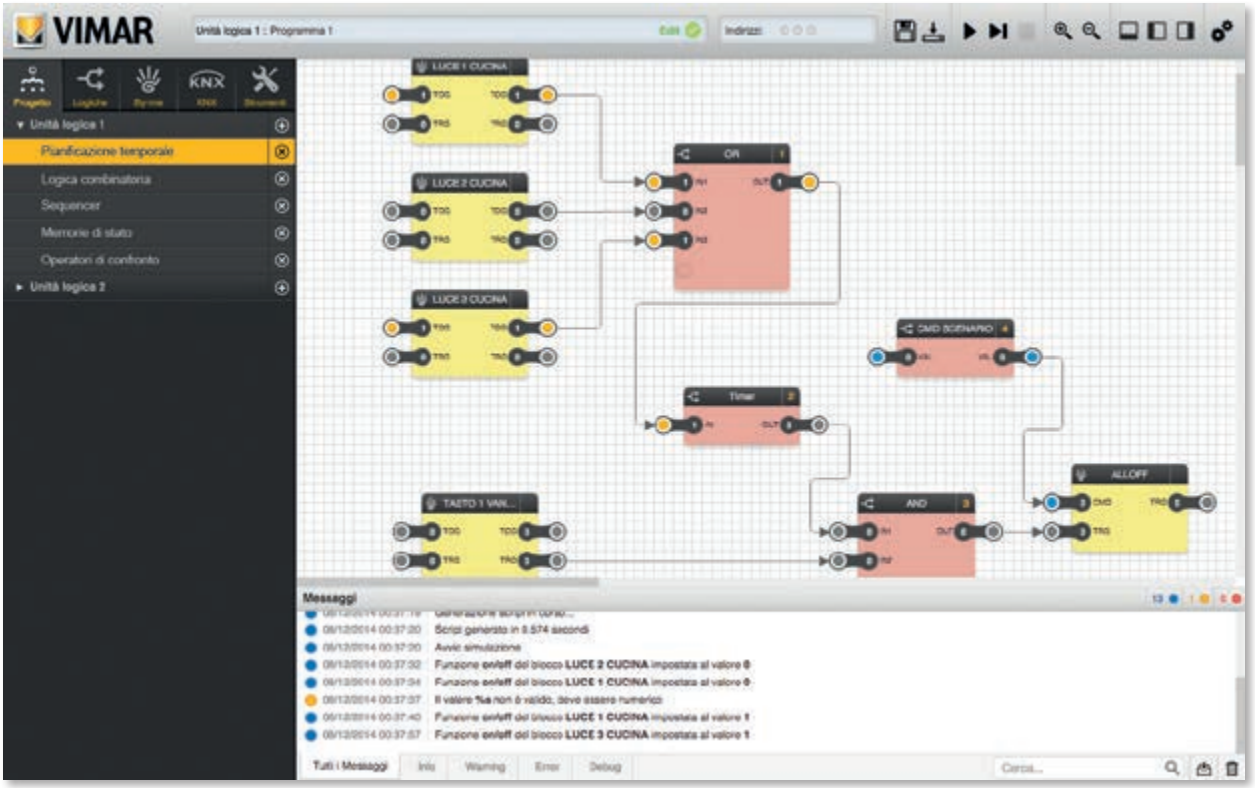
Complete management of By-me device inputs and outputs.

The Logic Unit makes available logic blocks with comparison operators that allow for full manipulation of inputs and outputs.

Complete handling of the roller shutters.

With the Logic Unit it is possible to define some **intermediate positions** (not only fully open or fully closed) which can be called up by scenarios or events.

Some of the above functions are described in the section on "Application Examples" in the Logic Unit **installer manual**.



Window for programming editor included in the EasyTool Professional software.

The programmes, defined with **EasyTool Professional**, with a **dedicated graphic interface (editor)**, are transferred to the device via USB to become operational.
The editor also enables simulating the behaviour of logic programmes, before "downloading" the programming into the Logic Unit itself.
For programme implementing constraints, refer to the installer manual.

FUNCTIONS

Supervision and control from app

Vimar has developed some apps for the remote management of the By-me home automation system.

The Vimar **By-phone app offers the user the possibility to interact with the Vimar** GSM communicator (art. 01942) via SMS in order to remotely manage the By-me system from a smartphone, to control lights, roller shutters, temperature control, scenarios and the alarm system in the home simply by SNS, shown on the display by stylish, user-friendly icons. Not only control but monitoring too; by sending a text message, you can check the status of the devices in your system at any time. The app is used to manage By-me systems created with a control unit (art. 21509) or programmed using EasyTool Professional;

Therefore, the Vimar By-phone app allows you to monitor the main functions in the system including automation, temperature control, the By-alarm burglar alarm system, scenarios and technical alarms, quickly and safely (by setting a password: this is required to control the burglar alarm system and optional for access to control functions).

The app is compatible with:
- smartphones with Windows 8 Mobile operating system;
- Apple iPhone, iPad and iPod touch with iOS 6.0 operating system or later versions;
- smartphones with touch support or physical keyboard and Android 2.1 operating system or later.

Vimar **By-phone is free** and can be downloaded:
- from the website **www.vimar.com**, in the “Software / App mobile” section;
- directly from your smartphone by connecting to the relative Appstore (Apple Store, Google Play and Microsoft Store).

Vimar **By-web** is a free app available for mobile devices with a browser for viewing web pages (notebook, tablet, smartphone) and for **remote connection to the Web server device** in the By-me home automation system. It can therefore manage the automation functions, load control, temperature control, burglar alarm system and the sound system in the system.

The App offers rapid access to the Web server functions, the possibility of managing lights and roller shutters, climate control, scenarios, events, load control, By-me burglar alarm system, By-alarm burglar alarm system and the sound system. From the main menu of the app, you can browse the home automation system in two ways:
- by **"Environments”**: this opens the list of areas that the building has been configured into by the installer;
- by **"Functions”**: this opens the different types of home automation devices (lights, roller shutters, climate control, etc.).

THE App can **be downloaded free of charge** from Apple Store for iPhone and iPod touch with operating system iOS 8.0 or later, and from Google Play for devices with operating system Android 4.0 or later.

Supervision and control from Web server

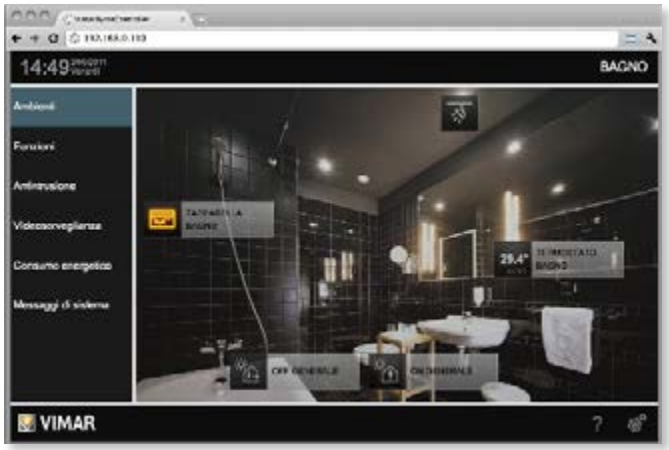
The Web server lets you manage the By-me home automation system on a PC, notebook, tablet or touch screen, or even on a mobile device, provided it has a browser capable of viewing web pages. The free Vimar By-web app is also available: this offers quicker access to the system functions and can be downloaded from App Store for iOS devices and from Google Play Store for Android devices. The Web server lets you manage all functions associated with the control of lights and roller shutters, climate control, scenarios, load control, “event” programmes, By-alarm burglar alarm system, sound system, “Energy Guard” and video surveillance with IP video cameras**either locally or remotely** . The access log screen (date and time, user, IP address of the user and type of event, login, logout, etc.) can be viewed at any time. The web server allows you to “browse” the functions of your home automation system in two ways:

- **browse by “environments”**: to physically manage functions by their location in the building;
- **browse by "functions”**: gives direct access to all functions of the same type, regardless of where they are located in the building;

The list of "areas" can be customized by the installer to reflect the structure of the building and home automation system; it can also contain pages consisting of groups of functions not necessarily linked to an area in the building, such as a page of "favourites" for example. Vice versa, the list of "functions" cannot be modified.

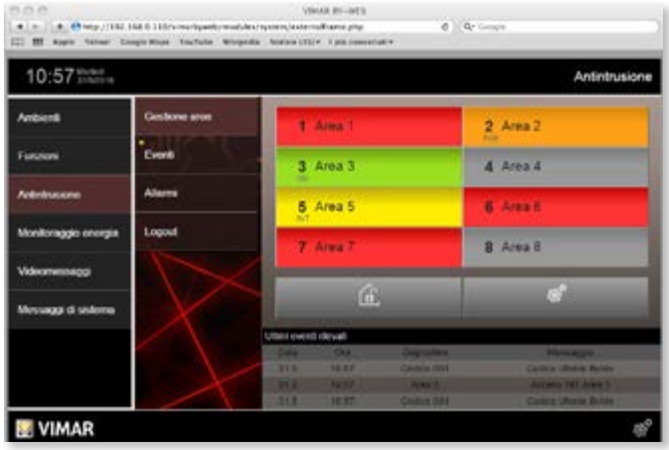
Note. The Web server is compatible with the browser Apple Safari (vers. 5.1 or superior) and Google Chrome (vers. 14 or later), it is not compatible with Microsoft Internet Explorer.

Examples of management from Web server browser

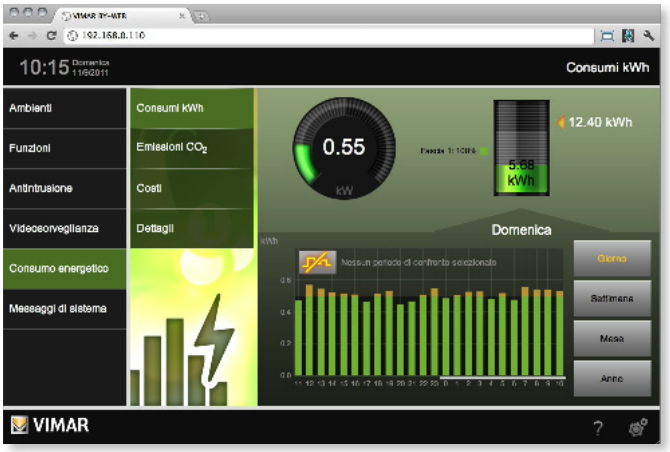


Browse by environments

Browse by functions



burglar page



“Energy Guard” power consumption meter page

Supervision and control from touch screens and supervisors

Touch screen supervisors allow the user to monitor and control the system by touching the icons associated with the available functions (groups, scenarios, etc.).
Four different types of devices are available:

- **10” IP multimedia colour video touch screen**, used to control the home automation system, video door entry system and CCTV. Connected to the Web server, the video touch screen is used to supervise the entire home automation system, as well as connecting to the internet (if a connection is available) to access services such as the weather forecast, news, RSS feed reader and web radio. Also, some off-line applications are always available which offer additional functionalities to the device (video and photo viewer, Mp3 player, calendar and memo, graphic, text or audio notes);
- **4.3” Full Flat colour video touch screen** (to complete with Eikon, Arké or Plana cover plates) used to control the By-me home automation system, the By-alarm burglar alarm system and the Due Fili Plus video door entry system. If only the Due Fili Plus video door entry system is installed, the device can be used as an indoor station;
- **4.3" Full Flat touch screen** with colour display (to be completed with Eikon, Arké or Plana cover plates) used to monitor and control the entire home automation system (climate control, scenarios, lights, roller shutters, etc.) and the By-alarm burglar alarm system;
- **3-module Full Flat touch screen** with colour display (to be completed with Eikon, Arké or Plana cover plates), used to monitor and control lights, roller shutters, climate control, scenarios, sound system.

NOTE. **Touch screens cannot replace a controller**, inasmuch as they perform actions, but the actual system is always configured with the controller, or with a computer running EasyTool Professional. The touch screen icons and screens are also programmed using the software.

Arké 3.5" flush mounting video entryphone equipped with control module 01965 allowing connection to the Bus of the By-me home automation system and operation as supervisor.

GSM phone communicator used for the remote management — using voice or SMS text messages — of devices for temperature control, irrigation, light control, or to signal burglar alarms or technical alarms (water, gas).

4.3” Full Flat touch screen

Arké flush-mounting 3.5" video entryphone with home automation system supervision

Automation

Universal controls, with 4 or 6 independent push buttons (which can also be configured as rocker buttons) with or without built-in actuator, programmed from a control unit or PC (with EasyTool Professional software) as: On/Off; dimmers; roller shutters and slats; activation of scenarios.

These controls are completed with interchangeable half-button caps (Eikon, Arké or Plana), chosen according to the function (1 or 2 modules, with or without symbols, customisable). In the case of **Eikon Tactil** switches, labels are applied to the buttons, with icons identifying the function.

The RGB signalling LED, with colour and brightness configured from the control unit or PC (with EasyTool Professional software), can be set as always on, always off, on with load On, on with load Off (not for Eikon Tactil controls).

Flush-mounting 100 mA power supply

Relay actuators, with 1 to 4 outputs, available in versions for flush mounting, 1 or 2 modules, or mounting on DIN rail (60715 TH35).

Logic unit for installation on DIN rail (60715 TH35), used to create adjustment and control functions inside the By-me system (logics, functional blocks such as delays, comparisons and mathematical functions, types of timelines, By-me blocks). These logic elements are defined with EasyTool Professional, with a dedicated graphic interface, and then transferred to the device via USB to become operational.

Home automation controls for light control

Radio frequency interfaces with EnOcean® module used to integrate rocker controls in the By-me system and rocker controls and radio frequency relays with EnOcean® module (no batteries); these devices have the same control and actuation functions on the Bus and can therefore be associated to groups, scenarios, etc.

With the **Light Control** range of devices, consisting of universal dimmers and lamps, comfort-related and energy saving needs can be balanced by creating customised and "energetically parsimonious" environments while ensuring full compatibility and absolute flexibility of installation. The **universal dimmers** are able to operate with all types of light sources, not only those offering high energy efficiency but also traditional incandescent lamps; in other words, a control component for new and existing systems alike, easily and effectively incorporated into any given architecture. Touch screens can be used to control programmed lighting scenarios in such a way as to make each room unique while also bearing in mind the need to save energy, by switching the lights on and off when appropriate, and adjusting brightness levels to suit the situation.

Home automation controls for roller shutter control

RGB functions (patented), made available by installing dedicated devices, can be used to create elegant and sophisticated colour variations and interplays of light responding to any need, including residential requirements and those of the small service industries ; in practice, it will be possible to configure and subsequently retrieve scenarios involving different functions of the home automation system, such as combinations of lights and colours associated with the audio output of the sound system, creating preferred moods characterized by effective and complete comfort.

Complements for the automation system: **receiver and infrared** remote control, **interface** for conventional 1 or 2 module controls.

EnOcean® standard radio frequency controls

Button operated devices

Button operated devices of the By-me system are essentially divided into the following categories:

- Eikon Tactil home automation devices with 4 or 6 programmable buttons, suitable for activating scenarios, or controlling dimmable lights and roller shutters;
- devices transversal to the Eikon, Arké and Plana series, customisable with button covers in the relative series, with 4 or 6 buttons, to control lights, roller shutters and scenarios;
- devices with 2 or 3 rocker buttons, suitable for controlling dimmable lights, roller shutters, scenarios;
- devices with 2 or 3 single buttons, suitable for step-step control of lights, activating scenarios, etc.

These devices allow the control of utilities by way of a logic connection with relay actuators connected to the utilities themselves; except in the case of scenarios, each device is connected logically to an actuator that must be selected according to the utility being controlled.
On this basis, the four categories mentioned are divided further into the following types of controls:

- controls with 2 or 3 rocker buttons;
- controls with 2 or 3 rocker buttons with actuator;
- controls with 2 or 3 rocker buttons with slat/roller shutter actuator;
- controls with 3 rocker buttons and MASTER dimmer actuator;
- controls with 2 rocker buttons and SLAVE dimmer actuator;
- Eikon Tactil home automation devices with 4 or 6 programmable buttons;
- controls with 2 or 3 single buttons;
- controls with 2 or 3 single buttons with actuator;
- 2 rocker button radio frequency controls.

With different types of controls available, installers have the greatest possible freedom in terms of configuration: for example, the actuator for operating a switched socket outlet can be associated directly with the button, or if the distance between the button and the socket outlet is greater than that between the socket outlet and a junction box, the socket outlet can be connected to an actuator near the junction box.

Bearing in mind the explanation of the Functional unit concept, it can be said that, **during installation,each functional unit of any device must be considered as if it were an independent device.**

At the design stage, accordingly, the correct procedure is to establish the required functions initially, and only then make a list of the devices needed to perform them.

Figure 1 shows the functional units of a device with 6 single buttons and an actuator (01485 for Eikon, Arké and Plana).

During installation, for example, the actuator could be used to control **Load A** using the button of another device, the left hand button to control **Load B** using a first actuator, the middle button to control **Load C** using a second actuator, and the right hand button to control **Load D** using a third actuator (see fig. 2).

There are no constraints on the functional units of a physical device.

All button operated switch controls present a configuration button in the front section (see fig. 3), whereas the rear section always houses the terminal for connection to the Bus. Depending on the type there many also be terminals for load connections.

Fig. 2 - device with 3 single buttons and actuator

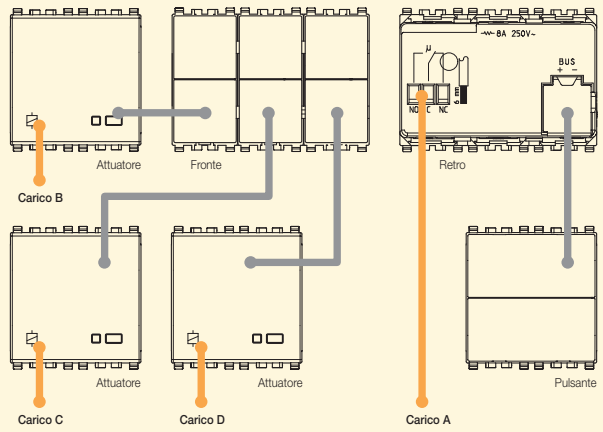
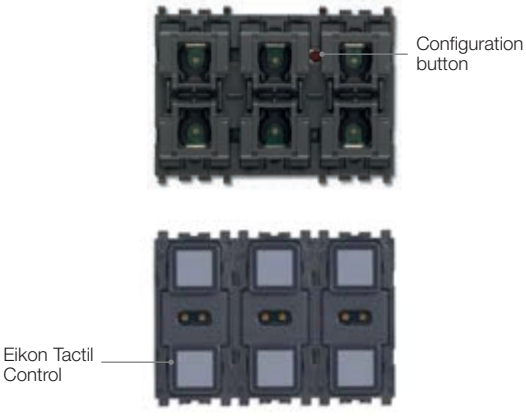


Fig. 1 - Functional unit

Fig. 3 - Controls



Composition of devices

Eikon Tactil is available with home automation controls having 4 or 6 buttons, which sense the proximity of the occupant and light up, ready for use. These devices can be programmed to control lights, activate scenarios or adjust dimmable lights and roller shutters.

For Eikon, Arké and Plana universal controls are available in the three series with 2 or 3 push buttons in control-only version, with relay for lights and actuator for roller shutter.
Controls are available with 2 or 3 single buttons and with two or three rocker buttons, for Idea and for Eikon, Arké and Plana series.

Eikon, Arké and Plana also offer **flat radio frequency control with EnOcean® or 2.4 GHz 802.15.4** module with two rocker buttons.

The devices with single buttons are suitable for step-step control of lights, activation of scenarios, etc., whereas devices with rocker buttons are suitable for controlling lights (On/Off), dimmers, roller shutters and scenarios.
The devices are completed as follows:

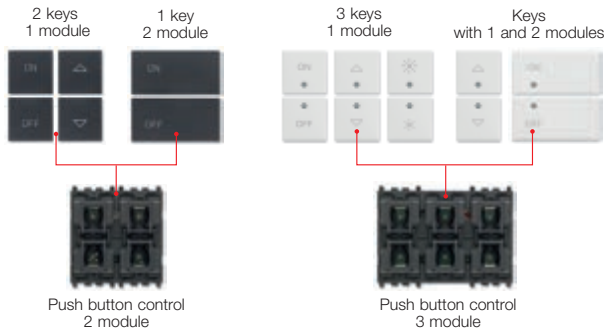
- **Eikon Tactil home automation controls with 4 or 6 buttons:**
  - application of Mylar adhesive labels with various back-lightable symbols describing the function. Backlighting for these controls can be programmed with RGB colours;
  - **2-button operated devices:**
  - mounting of 1 or 2 interchangeable keys with 1 or 2 modules depending on the number of functions associated with the device;
  - mounting of 1-module interchangeable keys for radio frequency control with EnOcean® or 2.4 GHz 802.15.4 module;
- **3-button operated devices:**
  - mounting of 1 or 2 interchangeable keys with 1 or 2 modules depending on the number of functions associated with the device.

Depending on the function to be associated, a wide range of interchangeable keys is available.

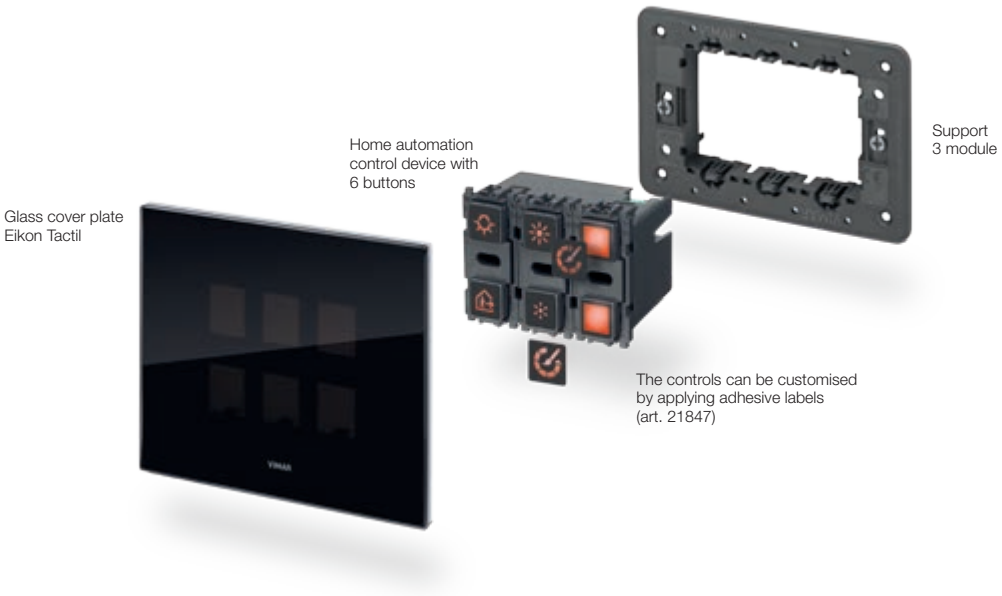
For universal home automation controls (Eikon, Arké and Plana), 1 or 2-module interchangeable keys can be customised with a set of the most popular symbols, or neutral symbols that can be laser-customised with standard symbols and wording from the libraries; for Eikon and Arké buttons the symbols are backlit, while for Plana the indicator lens is backlit. There is complete coordination between cover plates and inserts, and integration into existing systems will be total.

At the design stage, and when putting the system together, consideration must be given to the type of device that will be used so as to allow selection of the back box, which in the case of switches with three buttons will be 3-module types (V71303), whereas for devices with two buttons it is advisable to use 4-module back boxes (V71304).

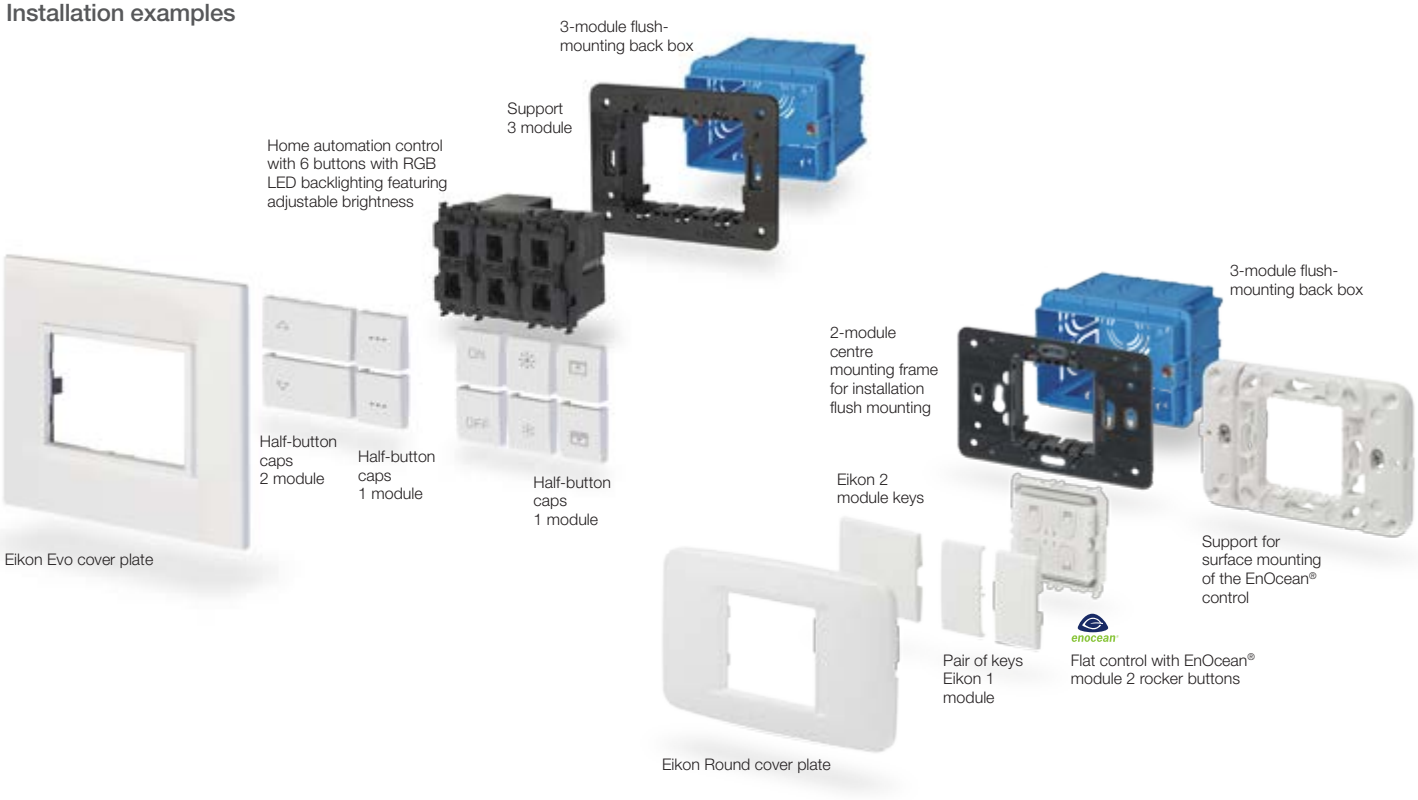
2 or 3-module devices to be completed with 1 and 2 module buttons



Example of installation of Eikon Tactil home automation controls



Installation examples



Energy management

Universal thermostats (for Eikon, Arké and Plana) with 2 modules, for temperature control in 2 or 4-pipe systems (heating/conditioning) and neutral zone (4 pipe systems only) with “boost” or “auxiliary heating/conditioning” functions to activate a second source used to reach the required thermal comfort quicker.

Fitted with RGB back-lit display with 4 capacitive keys to control the temperature set-point, fan coil speed and thermostat operation mode configuration.

Relay actuators with power metering and calculation of power draw, logging of energy values and indication of alarm tripped by faulty conditions affecting the load.

Energy meters providing signal to touch screen display showing power output and power draw of a load connected to the electrical power line. Available with built-in current sensor for installation in back box behind inserts, or mounted to DIN rail (60715 TH35) with external current sensor for measuring power on one or more lines both in single phase and in three phase systems, and for monitoring up to 3 electrical power lines independently.

Load control module designed to prevent the breaker in the single phase and three phase electricity meter from being tripped by an overload. The module measures current on the electrical power line being monitored and capable of controlling up to 3 electrical power lines independently. IT IS also intended for systems including an energy production (photovoltaic) section and enables the activation of loads in such a way as to favour self-supply.

Toroidal current sensor for monitoring loads and measuring energy usage, for connection to the load control module or to electricity meters.

Pulse counter interface for retrofit mounting, used to count the pulses transmitted by a gas, hot and cold water and electricity meters, anemometer, etc., and enter the data in the By-me Bus.

Touch screen thermostat

Actuator with built-in current sensor

sound system (multiroom system)

The By-me sound system is used to create systems able to transmit a **high quality audio signal (CD quality)**, with up to 4 audio sources in different rooms at the same time. Thanks to the various system devices, integration with all the existing By-me controls and the range of coordinated speakers, it is possible to create mono or multi-channel systems completely integrable in the By-me system. The possibility of free distribution of the transmitter and receiver nodes and of the commands keeps the wiring simple allowing perfect integration with the controls and actuators of the home automation system. The performance, numerous functions, installation flexibility and above all the quality of the sound enable using the system both in the residential sector (from apartments to villas) and in the small service industry (health centres, shops, cafés, restaurants, supermarkets). The main characteristics can be summed up in the following points:

1. 2-wire system (using the Bus cable **01840.E.B**) with in-out linear wiring that enables perfect integration with the By-me automation devices (that can be connected to the "audio" branch through a special branch tap-off for By-me devices 01903 or through the special terminal on all the devices of the sound system);
2. possibility of using the By-me controls (buttons, touch screens and also the ones connected to the automation line) for system control (switching on/off, volume adjustment, source selection, track selection or radio station, etc.);
3. free topology (therefore without a central node that entails star wiring) used to install transmitters and receivers at any point in the system;
4. 4 simultaneous stereo channels, with CD audio quality;
5. up to 60 independent audio zones;
6. possibility of using the Bus as an FM antenna (in this case the auxiliary external antenna is not necessary);
7. possibility of programming the maximum audio levels for each zone;
8. possibility of making microphone calls (3 different zones);
9. audio monitoring function;
10. "baby control" function (at a desired threshold there is automatic signal transmission);
11. integration with the scenarios and events programmes of the By-me system (for instance radio alarm function).

Installation components

The sound system is composed of the following categories of devices:

Transmitter devices

They enable transmitting the sound coming from an audio source (e.g. Hi-Fi system, CD player, portable MP3 player, etc.) to the system receivers.
Each transmitter configured in the system occupies one of the 4 available channels and **can be connected to any point of the system**.

- **Audio input with 2 RCA connectors** (20582, 19582, 14582) flush-mounting, galvanic decoupling of the audio inputs to the By-me Bus.
- **FM radio tuner with RDS** (01900) 2 modules, for DIN rail (60715 TH35). Managed with By-me control unit and touch screen, displaying RDS station info (tuning, station, track, etc.). Possibility of having 8 tuning memories and using the internal antenna (Bus) or external antenna with coaxial connector (type F).
- **4-button control with LINE OUT output** (01483) flush-mounting, used to extract the non-amplified audio signal of the selected channel and send it to a stand-alone amplifier (for example art. 20590).
- **Call microphone** (20586, 19586, 14586) flush-mount, used for making calls (selective or general).
  The front buttons enable activating the call, with built-in microphone. "Baby control" function.

4.3" Full Flat video touch screen


Selective or general call microphone


Passive speaker 3 W RMS

- **Bluetooth® *wireless technology interface*** (20589, 19589, 14589,) flush-mounting, that acts as a transmitter in the By-me sound system to input the audio from a smartphone or tablet (Android, iOS and Windows Phone) on a BUS channel. In addition to transmitting the audio signal to the receiver devices, it is also used to control the smartphone or tablet remotely by sending commands on the Bus, including play/pause, previous or next track.
  Moreover the Bluetooth network name can also be customised on request (for details see page 181).

Receiver devices

They enable listening to the audio transmitted through one of the channels in the system. These devices are also equipped with a **high quality audio amplifier** that enables direct connection to the acoustic speakers.

- **device with four buttons and amplifier 1+1 W RMS** (01484, 14581) flush-mounting. Power supply from By-me bus or 32 Vdc (via specific auxiliary power supply 32V - 20580, 19580, 14580) with dedicated input.
- **Output module with amplifier 10+10 W RMS** (01901) for DIN rail (60715 TH35), power supply 110-230 V~, 50/60 Hz.
- **4+4 W RMS amplifier with built-in *Bluetooth® wireless technology*** receiver (20590, 19590, 14590,) flush-mounting, power supply 12 Vdc via power supply for DIN rail (60715 TH35) 01831.

Acoustic speakers

The system has a complete range of acoustic surface and flush mounting speakers (including versions for ceilings, light walls, etc.).

- **Passive acoustic speaker 10 W RMS 8 Ω** (21588) flush-mounting 8 modules (4+4).
- **Passive acoustic speaker 3 W RMS 8 Ω** (20587) flush-mounting 3 modules.
- **Passive acoustic speaker 30 W RMS 8 Ω** (01906 and 01907) for false ceilings and light walls. Art. 01906 is suitable for external installations.
- **Passive acoustic speaker 30 W RMS 8 Ω** (01908) adjustable surface-mounting. Suitable also for shelf-mounting.

Accessory modules

These are devices that, while not having any direct use by the user, are required in the system for its operation or for the various wiring/construction possibilities.

- **Line decoupler for By-me power supply** (01902) for DIN rails (60715 TH35), used at the output of the By-me power supply (or the output of a line coupler).
- **Branch tap-off for By-me automation devices** (01903), flush-mounting (retrofit: installation in a box behind the appliance).
- **Branch tap-off for sound system devices** (01904), flush-mounting (retrofit: installation in a box behind the appliance).
- **32Vdc SELV** (20580, 19580, 14580) auxiliary power supply, flush-mounting, power supply 110-230 V~, 50/60 Hz, output 32 Vdc.
- **Auxiliary power supply 12 Vdc** (01831) for DIN rail (60715 TH35), power supply 100-240 V~ 50/60 Hz, output 12 Vdc.
- **By-me IR interface** (20584, 19584, 14584) to control audio sources by wire with IR transmitter (supplied) and remote control (not supplied), flush-mounting.
- **Spring connector** for connecting the sound system (20583, 19583, 14583), flush-mounting.

Audio input with RCA connectors

Connector for sound system and RCA interface

Device with amplifier 8 Ω 1+1 W RMS

Functions and applications

As mentioned above, the main function of the sound system is to transfer an audio signal from one point of the system to another; thanks to the system devices, moreover, it is possible to create a wide range of functions so as to satisfy every type of requirement:

- The transmitter module can be connected to any audio source (MP3, DVD player, Hi-Fi systems) through the RCA connectors.
- The 4+4 W RMS amplifier with built-in *Bluetooth® wireless technology* receiver is used to transmit the playlist and music in streaming from the Internet, from mobile devices to the sound system.
- The FM tuner transmitter module transmits the radio signal.
- The call microphone module enables making half-duplex voice communications.
- The receiver modules enable transmitting the audio source with a different power output according to the context and the environment.
- The IR stereo control module enables controlling the Hi-Fi system with the By-me controls; it must always be connected to the RCA module.
- **Control keys**: associated with the push button, they perform commands that affect the entire zone. For instance it is possible to configure the By-me keys to switch the sound system on and off, adjust the volume, switch the audio source (channel) and skip to the next/previous track.

Key for switching on and off (short press) and volume control (long press)

Key for switching to the audio source (top key) and skipping to the next track (bottom key)

The key for moving on to the next track takes on a different meaning depending on the transmitter being controlled: in the case of the FM tuner it will pass on to the next station memorised, while in the case of an MP3 player or Hi-Fi system it will pass on to the next track.

- **Zone priority**: if a number of zones are tuned onto the same channel, that is they are playing the same audio source, control is ensured according to the priority assigned to the single zones. The zones with a higher priority, among those simultaneously listening to the relevant source, will be able to generate controls (for example changing tracks), changing the signal being played by all the zones tuned in.
- **Microphone call**: besides playback, voice calls can be made using the special microphone call module. The call occupies one of the available channels and is transmitted by the receivers involved in the call; all the active zones on the call channel, that are not involved in the call, will be silenced for its entire duration. At the end of the call the zones will return to transmitting the channel to which they were tuned.
  It is not possible to make two calls at the same time. The following types of call are possible:
  - **general call** that involves all the audio zones present in the system;
  - **selective call** that involves one or more audio zones chosen by the user in the phase of configuration.
  - **"baby control" call** that involves one or more audio zones chosen by the user during configuration.
  - **audio monitoring call** that involves one or more audio zones chosen by the user during configuration.
- **"Baby control" function**: the microphone module is used to activate the selective call when the volume perceived by the microphone exceeds a set threshold.
  If installed in a child's room, the system puts the parents' room into audio contact ("baby control") according to the loudness of the noise. The call is automatically deactivated if its loudness remains below the threshold set for a certain time frame or if it is locally silenced by pressing the microphone module button.
- **Audio monitoring function**: remote activation of the microphone module is possible and as a result also selective calls. To do this it is necessary to configure a By-me push button within the same group in which the microphone module is configured or to configure a specific button on the touch screen.
- **Alarm call function**: this function, activating one of the scenarios created by the user, is used to turn on an audio zone for a specific time period (configurable)
- **Sleep (timed switch-off) function**: by activating this function an audio zone is switched off after a certain time (configurable). On receiving an OFF message the receiver switches off even if it is in the timed switch-off period.
- **Silencing function**: at the time of a certain event, the volume of a zone is automatically limited to a lower value (configurable). This function is used during a video door entry call; in practice, when there is a call or the video entryphone self-starts, the audio signal of the sound system is silenced or lowered to the set volume.
- **Voice call function**: the system does not allow intercom communications but, by using the microphone module and the receivers, it is possible to make half-duplex voice communication between two zones.
- **Scenarios**: the sound system devices can be integrated in the By-me automation scenarios, enhancing the application functions of the system.

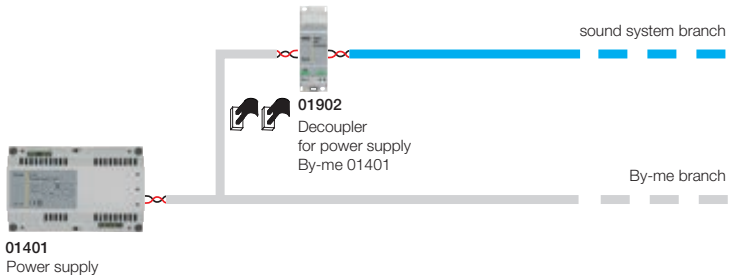
System architecture

The type of transmission of musical information in digital form over the same Bus where the By-me operation and configuration data transit requires some installation recommendations for the wiring and in the construction of the system, while maintaining perfect integration with the By-me home automation system. To facilitate installation a dark blue Bus cable art. 01840.E.B has been introduced to identify the part of the system or branches of the Bus dedicated to the sound system easily and with no error.

Installation topologies

The sound system lends itself to various constructions according to the needs and dimensions of the system.

Example 1: sound system on the same logical branch (Area/Line), but with separate wiring.

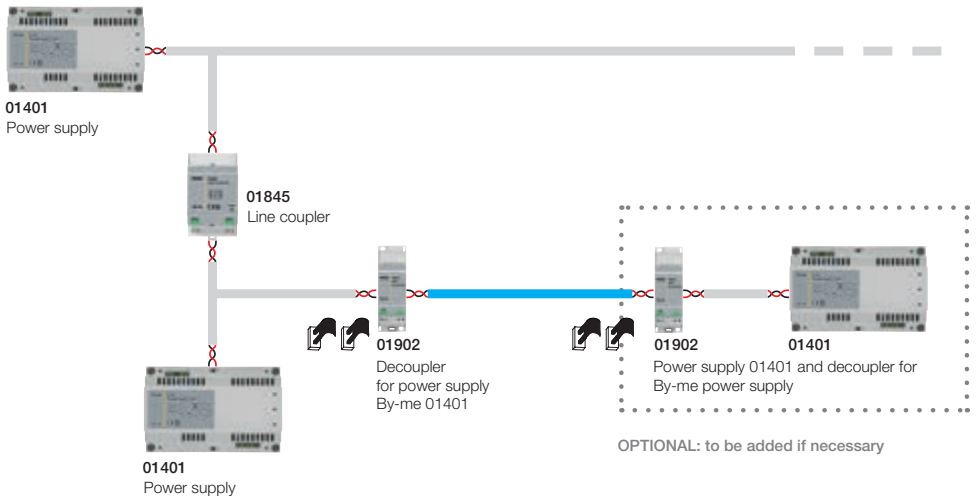


Typical use in systems where many devices can be installed separating the automation system from the sound system (separate prearrangement).

In this case the separation is purely with the wiring and not the logic: the sound system devices and the By-me devices are configured on the same line.

Branch termination via jumper

Example 2: dedicated logic branch.

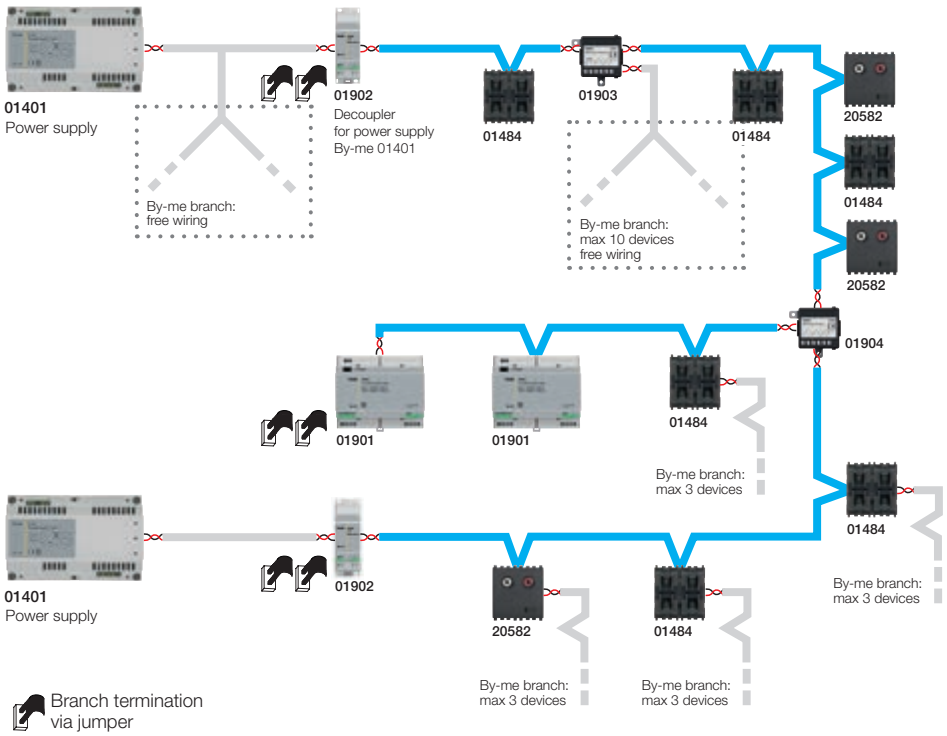


Typical use in systems where there are many automation devices and it is necessary to add audio devices.

In this case, the sound system devices are configured in a different line to the other By-me devices. The second power supply and the dedicated decoupler are optional and must only be included when necessary for reasons of consumption.

Branch termination via jumper

Example 3: By-me automation and sound system on the same branch.



Branch termination via jumper

Typical use in systems where the prearrangement for the automation Bus and the Bus sound system is a single one (therefore not in separate conduits).

This explains how it is possible to make a completely integrated system with the By-me automation and sound system devices on the same branch.

Legend

	By-me branch. Free wiring
	sound system branch. By-me devices cannot be connected; In-out wiring (linear, not star); max number of sound system devices: 64.
01903	The tap-off for the By-me enables the creation of By-me branches that contain a max of 10 automation devices. Max no. of tap-offs 01903=64
01904	The sound system tap-off enables shunting sound system branches.
01902	Decoupler for By-me power supply for sound system. It must be inserted between the power supply and the audio line; none of the By-me devices between the decoupler and the power supply are “seen” by the sound system.

Warning: By-me devices are not connected directly to the branch of the sound system (blue branch) but through special tap-offs or through the devices of the sound system (that have a special terminal).

Installation Rules

The following installation rules are compulsory in the sections of By-me Bus dedicated to the sound system:

1. **free wiring is not permitted in the sections dedicated to the sound system, but only the in-out linear type.** For shunting it is necessary to use the special branch tap-off for the sound system 01904;
2. **no more than 2 branch tap-offs can be wired per sound system (01904) between a transmitter and a receiver**: this is because the branch tap-off introduces signal attenuation;
3. **the section of Bus dedicated to the sound system is separated from the power supply** (or from the line coupler if used) **by the special By-me power supply decoupler 01902**;
4. **it is possible to connect only the audio devices to the sound system (dark blue connections):** the By-me devices (where applicable) must be connected either through the specific branch tap-off for By-me devices (01903, max. 10 By-me devices) or through the dedicated terminal in each sound system device (branch with max. 3 By-me devices);
5. **the devices at the ends of the sound system branches (at the start and at the end of the blue lines) must be terminated** via the special jumpers present in each device. **This applies to any device, whether it be a decoupler, By-me power supply for the sound system or a normal transmitter or receiver**;
6. **when laying the Bus cables for connecting the devices, it is recommended to use corrugated raceways with a minimum diameter of 25 mm**;
7. **do not use KNX cables, but only cable 01840.E.B**.

System constraints

In order to ensure correct system operation and complete functionality in the installation it is necessary to respect the constraints given in the following tables:

Distances between transmitters and receivers		
Maximum distance between a receiver and a transmitter with no intermediate tap-offs	**300 m**	See diagram A
Maximum distance between a receiver and a transmitter with 1 intermediate tap-off	**200 m**	See diagram B
Maximum distance between a receiver and a transmitter with 2 intermediate tap-offs	**100 m**	See diagram C

Diagram A

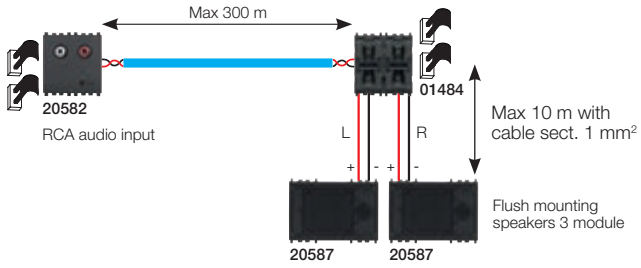


Diagram B

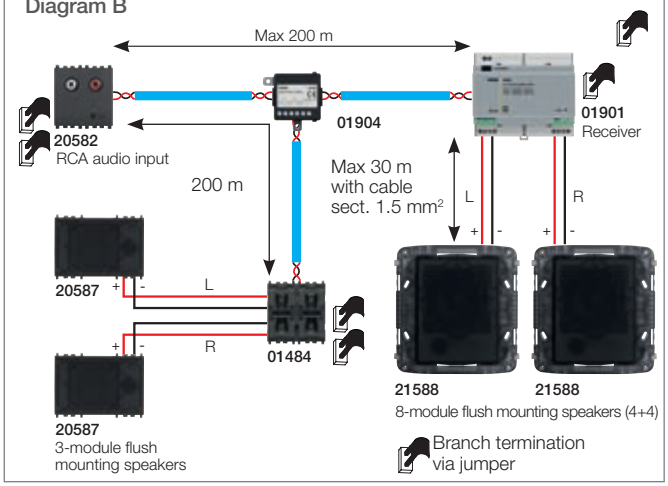
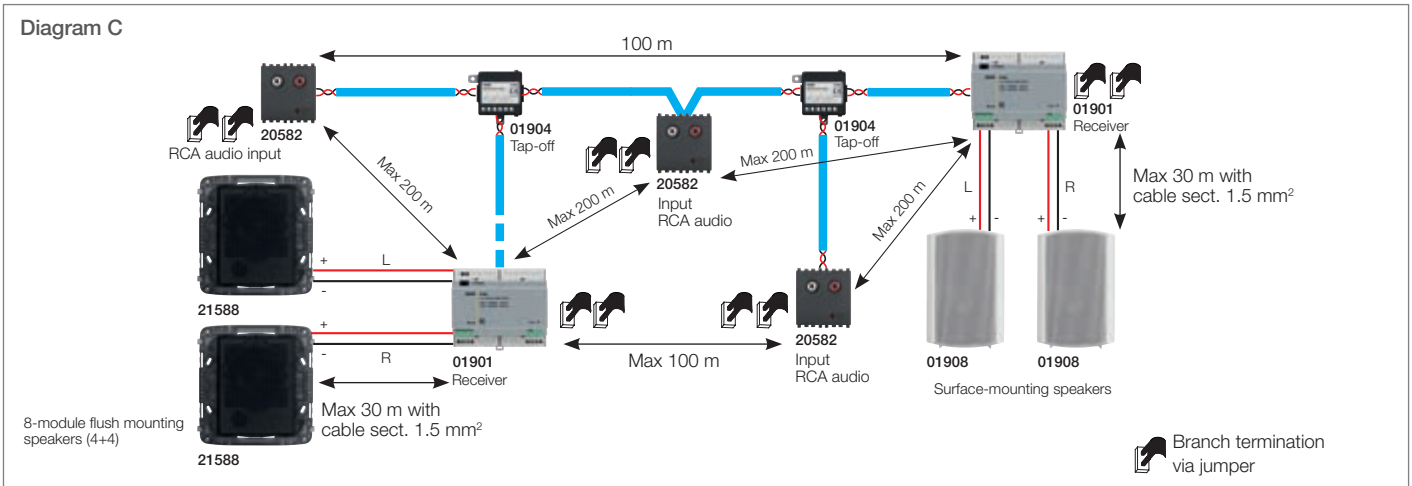
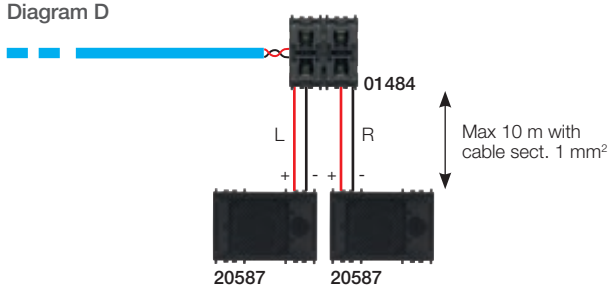


Diagram C



Distances between receivers and speakers		
Distance between receiver 1+1 W RMS (01484) and speakers	**10 m**	See diagram D
Distance between receiver 10+10 W RMS (01901) and speakers	**30 m**	See diagram E
Distance between receiver 3+3 W RMS (01901) and speakers	**10 m**	See diagram F

Diagram D



3-module flush mounting speakers

Diagram E

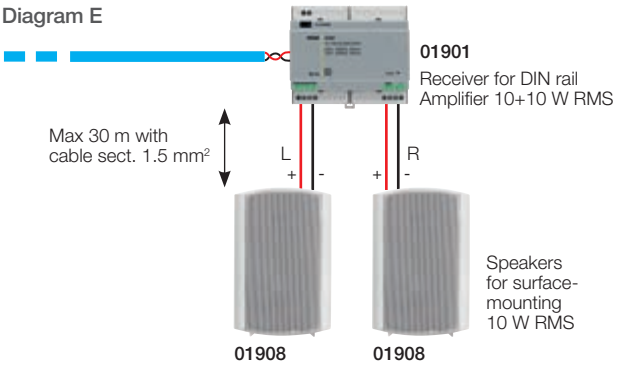
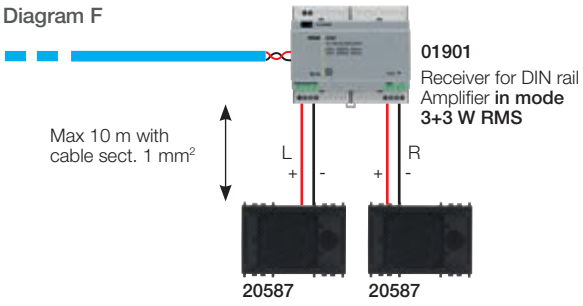


Diagram F



3-module flush mounting speakers

BY-ME

- **Types of wiring**:

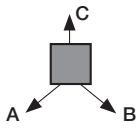
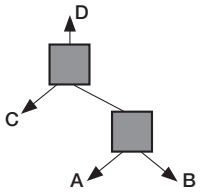
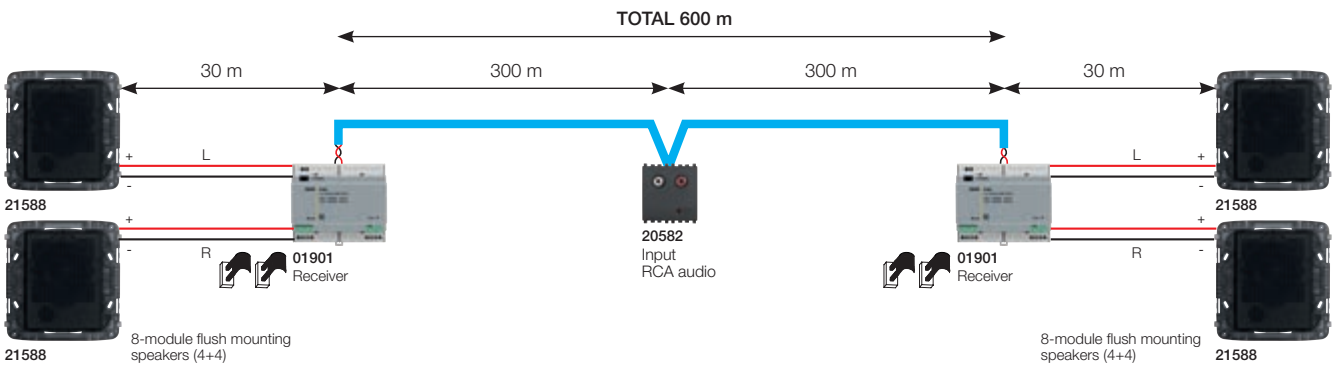
Wiring development	Condition 1	Condition 2
	If AB < 300 m: • no limit on position between RX and TX	If AB > 300 m: • ensure that the maximum distance between TX and RX is less than 300 m (see diagram G, H and I)
	If Max (AB,AC,BC) < 200 m: • no limit on position between RX and TX	If Max (AB,AC,BC) > 200 m: • ensure that the maximum distance between TX and RX is less than 300 m if there is no crossing of the tap-off or it is less than 200 m if the tap-off is crossed
	If Max (CD,AB) < 200 m and Max (AD,BD,AC,BC) < 100 m: • no limit on position between RX and TX	If Max (CD,AB) > 200 m and Max (AD,BD,AC,BC) > 100 m: • ensure that the maximum distance between TX and RX is less than 300 m if there is no crossing of the tap-off or it is less than 200 m if the tap-off is crossed or less than 100 m if there are two tap-off crossings

Diagram G



- **Cable section**:

Amplifier	Speaker	Maximum distance between amplifier and speaker	Sect. cable
01484	20587	**10 m**	**1 mm²**
01484	21588	**30 m**	**1.5 mm²**
01901	21588	**30 m**	**1.5 mm²**
	01906		
	01907		
	01908		

- **Amplifier - speaker combination**:

Amplifier	Power amplifier W RMS	Speaker	Power speaker W RMS
01484	1 + 1	20587	3
		21588	10
01901	10 + 10	21588	10
		01906	30
		01907	30
		01908	30
01901	3 + 3	20587	3

- **Absorption of devices and system dimensions**: as the system is completely integrable with By-me automation and uses the power supplies 01401, the limits of absorption to calculate for each line in the system are generally valid: max. 2 By-me power supplies 01401 and therefore max. 2 x 1280 mA. The sound system devices have different absorptions to the conventional By-me devices and are therefore to be considered when sizing the system. The following table gives the absorptions of the sound system devices.

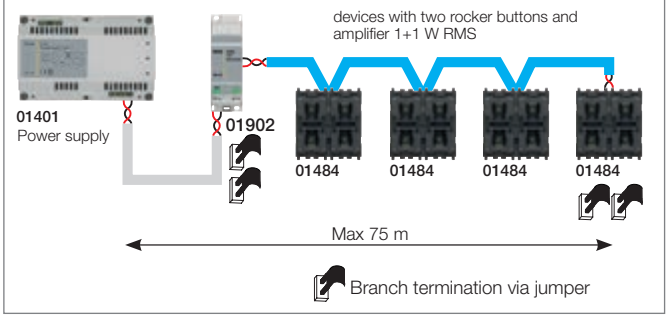
Device	Absorption	Notes
01483 device with four buttons, 1 LINE OUT output - 2 modules	**35 mA**	Equal to 3 By-me devices
01484 device with four buttons and amplifier 8 Ω 1 + 1 W RMS (if powered by Bus) - 2 modules	**150 mA max**	Equal to 15 By-me devices
01484 device with four buttons and amplifier 8 Ω 1 + 1 W RMS (if powered by power supply 20580, 19580, 14580) - 2 modules	**10 mA**	Equal to 2 By-me devices
01900 FM radio tuner with RDS for DIN rail (60715 TH35)	**35 mA**	Equal to 3 By-me devices
01901 stereo amplifier with 2 outputs for speakers 8 Ω 10 + 10 W RMS, 230 Vac for DIN rail (60715 TH35)	**20 mA**	Equal to 2 By-me devices
20582, 19582, 14582 audio input with 2 RCA connectors - 2 modules	**35 mA**	Equal to 3 By-me devices
20584, 19584, 14584 By-me interface with IR receiver, complete with 3 m cable	**20 mA**	Equal to 2 By-me devices
20585, 19585, 14585 docking station for iPod and iPhone devices, with power supply - 2 modules	**35 mA**	Equal to 3 By-me devices
20586, 19586, 14586 microphone for selective or general call - 2 modules	**35 mA**	Equal to 3 By-me devices
20589, 19589, 14589 Bluetooth® interface for home automation system - 2 modules	**35 mA**	Equal to 3 By-me devices

Important! The absorptions given in the table are only for the audio devices and do not take account of any other automation devices that may be connected to the By-me branch shunting terminal. The absorption of the receivers 01484 1+1 W RMS (if powered directly by the Bus and not through the auxiliary power supply 20580, 19580 and 14580) reduces its distance from the system power supply, especially if it is present at a number of points on the same branch:

Devices	Distance
With 1 receiver 01484 powered by Bus	**300 m**
With 2 receivers 01484 powered by Bus	**150 m**
With 3 receivers 01484 powered by Bus	**100 m**
With 4 receivers 01484 powered by Bus	**75 m**

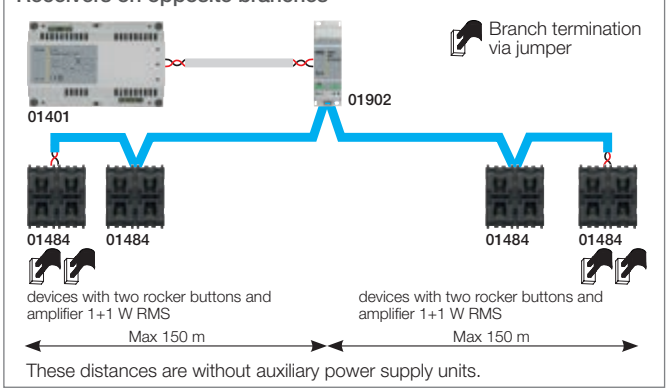
These data refer to the case in which there is a number of receivers 1+1 W RMS (01484) on the same branch and on the same side in relation to the By-me power supply 01401 (see figure below):

Receivers on the same branch



In the case in which the devices are always on opposite branches in relation to the By-me power supply, the distance must be calculated in relation to the power supply, counting the devices on the branch.
Therefore depending on the number of transmitters and receivers (and on their type) it is possible to calculate the absorption of the system and therefore the number of power supplies necessary, that in any case can be at most 2. If you want to install several receivers 1+1W RMS (01484) it is advisable to use the auxiliary power supplies 20580, 19580, 14580:

Receivers on opposite branches



These distances are without auxiliary power supply units.

- Number of devices: as regards the number of devices that can be used on the branches of the sound system the following restrictions apply:

Description	Number	Notes
Maximum No. of inputs (transmitters)	4	4 stereo channels
Maximum No. of “audio” devices (inputs, outputs, accessories)	64	Limit fixed by the input impedance of the “audio” nodes
No. of receivers not powered by Bus	64 – no. of inputs – no. of accessories (tap-offs, decouplers, etc.).	Total: max 64 devices (transmitters, receivers, accessories). Each receiver can choose the audio channel from the 4 available ones
No. of receivers powered by Bus 01484	A receiver powered via Bus consumes as much as 15 By-me devices (for example, max 6 devices per power supply unit with power supply unit 01401)	Indeed, the limits of the power supply units apply: 01401 = 1280 mA 01400 = 400 mA
No. of decouplers 01902	2	Given the strong attenuation of the signal due to the tap-offs, it is necessary to make sure that the path between a transmitter and a receiver does not pass more than 2 of them
Max. no. of microphone modules 20586, 19586, 14586	8	Possibility of making up to 8 different selective calls
No. of By-me tap-offs 01903	64	Each tap-off enables a By-me branch to be shunted beginning from the “audio” branch
No. of By-me devices that can be connected to the By-me tap-off 01903	10	In each tap-off created by the decoupler I can connect max 10 By-me devices
Maximum no. of branch tap-offs 01904	2	The tap-off 01904 is used for shunting two new audio branches from a sound system line, making it possible to create a star connection

In relation to the topology, installation criteria and system constraints, we can summarise the following:

- installation is linear (in-out) with the possibility of shunting via the special branch tap-offs for the sound system 01904;
- By-me devices must not be connected directly to the branch of the sound system but only through the tap-off 01903 or through the devices of the sound system (special terminal on each device in the sound system);
- a decoupling device is necessary between the power supply and the audio transmission line: Bus line decoupler for sound system 01902;
- between the power supply and the line decoupler 01902 for the sound system the line maintains the By-me characteristics (free wiring, max 128 By-me devices both for the sound system + automation and for automation only);
- the tap-offs for the By-me branch 01903 enable shunting a By-me line with max 10 devices and free wiring from the audio transmission line.
  There can be at most 64 tap-offs.

Stereo amplifier 4+4W RMS with Bluetooth® receiver

Arké 3.5" video entryphone with By-me module 01965

Security

To guarantee the safety of the building, it is possible to integrate By-me with the **By-alarm burglar alarm system**, the **Elvox CCTV** video surveillance system and the **Elvox video door entry system**.

The By-alarm burglar alarm system can be integrated with By-me, thanks to communication between the burglar control unit (art. 01700) and the Web server (art. 01945 or 01946) via the Ethernet network interface (art. 01712) that uses an extremely secure encrypted communication protocol.
The Web server also acts as a gateway to the By-me system and allows the installer to access the system remotely via a secure communications channel, using the **By-alarm Manager software** (remote connection with PC only via the Web server, otherwise you must use the serial interface art. 01725).

The **integration functions** between the two systems are:

- control and management of the By-alarm system via the Web server (art. 01945 and 01946), touch screen (21511.1, 21554, 21553.2) and home automation module (art. 01965) of the Arké video entryphone (art. 19558), to see the system status (connection/disconnection of the areas based on the rights of the user PIN entered and see events/alarms, etc.);
- light control: using the dual technology sensors, you can control the By-me light sets when the relative zones are disconnected (configuration on Web server);
- use of window contacts to send the stand-by command to the By-me thermostats (configuration on Web server).
- activation of a By-me scenario upon the occurrence of an event (connection, disconnection, alarms, etc.) in the burglar alarm system (configuration on Web server).
- use of the By-me logic unit (art. 01468) to create logic programs linked to the status of areas (total or partial connection, alarm).

The By-me home automation system supervisors can be integrated with Elvox CCTV video surveillance and Elvox video door entry systems:

the **multimedia colour video touch screen with 10" IP display**, is used as:

- indoor station in the Due Fili Plus system;
- monitor for local DVR/NVR control via the advanced, user-friendly touch screen graphic interface;
- monitor for the remote control of IP video cameras via Web server (01945 and 01946).

The **video touch screen with 4.3" Full Flat colour display** available for Eikon, Arké or Plana, is used as an indoor station in the Due Fili Plus system.

The **Arké 3,5" flush-mounting video entryphone** that works in stand-alone mode in the Due Fili Plus video door entry system communicating directly with the entrance panel, is integrated with By-me with the addition of the interface module 01965.
The device is also available in a version for **hearing aid wearers**.

Moreover, to complete the video door entry system, the following are available:

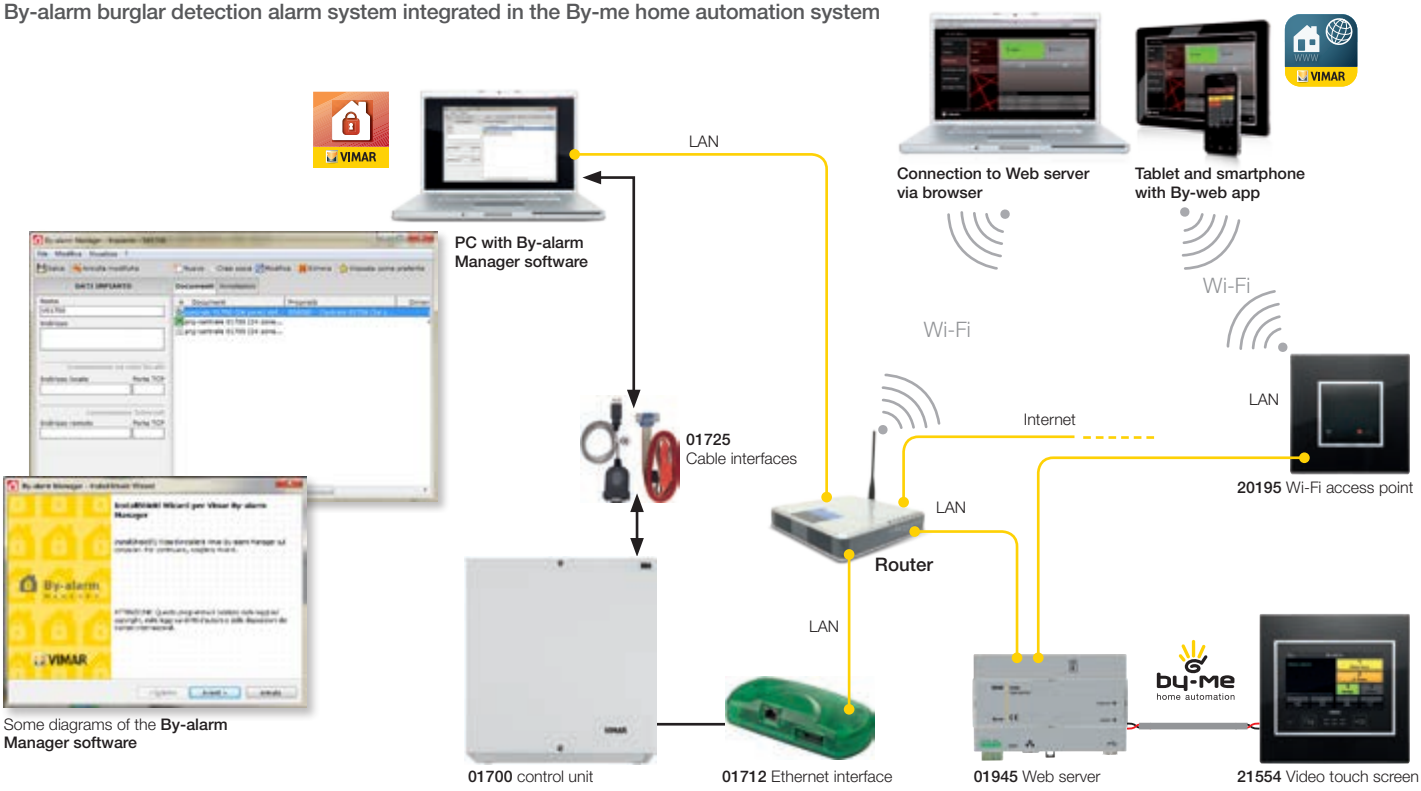
the flush mounting**Due Fili hands-free entryphone** which allows voice-only communication with the outdoor station (Due Fili Plus panel or landing call button). Can be configured for intercom calls.

The flush mounting**Due Fili landing call button,** , which allows calls and voice-only communication to be performed with the indoor station (hands-free or video entryphone, video touch screen).

The **flush mounting colour** video cameras, with 1 and 2 modules. The 2-module version has pan and tilt adjustment, and is equipped with a built-in microphone.

NOTE. For IP and analogue outdoor video cameras, DVRs and system components, refer to the Security Catalogue.

By-alarm burglar detection alarm system integrated in the By-me home automation system



Integration of By-me with Elvox Video door entry systems

The By-me system is used to create video door entry systems, thanks to the interoperability between the devices and the **Due Fili Plus video door entry system**.
The **Due Fili Plus** system uses a single Bus cable (2-wire) to connect the video entryphone to all the other devices in the system. This technology means that a simple, flexible architecture can be used to create even very complex installations without coaxial or return cables between the devices and the video entryphones.
The By-me devices integrate with all devices in the video door entry system (panels, call buttons, power supplies, etc.).
IT is possible to integrate the video door entry system with the By-me home automation system using:

- **Touch screen supervisors** (21553.2 and 21554) video entryphone function to view and communicate with the outdoor station.
  The 10" multimedia video touch screen (21553.2) can also view IP and analogue video cameras in the CCTV system;
- **Flush-mounting video entryphone** (19558) with By-me module (01965).
- **Flush- or surface-mounting video entryphone** (19558), used to interact with images and sound to view and communicate with the outdoor station.
- **Hands-free entryphone, with or without handset,** flush or surface-mounting, used to make audio communication with the outdoor station.
- **Audio or video entryphones** used to identify the person wishing to enter the home.
- **Landing call buttons**, flush-mounting, used to call and communicate with the indoor station (flush mounting monitor or video entryphone or hands-free entryphone).
- **Video cameras**, available also for flush mounting in 1 and 2 module versions, used to record the person who is then shown on the touch screen supervisors, flush mounting monitor or surface-mounting video entryphone.
- **Flush-mounting indoor illuminators** which, installed with the video camera, light the person being filmed to make the image clear and well-defined.
- **Power supplies** that manage audio and video communication between the internal and outdoor stations, call generators and power supplies required both towards the riser and the outdoor stations.
- **Due Fili Plus system** devices, which manage the data exchange between outdoor and indoor stations.
- **Distributors** used to split the video signal so that it can be received by more than one monitor.

Functions and applications

The main functions that can be created with the Due Fili Plus system are the following:

- **Answering a call**: when a call is made from an outdoor station (entrance panel or landing call button), the video entryphone gives off an acoustic signal and the monitor comes on and shows the caller.
- **Self-start**: the function is used to activate audio/video communication on the outdoor station without having received a call; the function is useful, for example, to check the area outside the home.
- **Confidential conversation**: this intrinsic system function allows you to communicate with the outdoor station only if a call has arrived or if there has been a self-start; it is not possible to listen to other communications in progress nor self-start while there is an ongoing conversation.
- **"Door open" signalling**: this function is used to view a LED signal on the video entryphone indicating if the door or gate is open.
- **Lock control**: this control opens the door lock opening relay on the door or gate that provides access to the home.
- **Stair light control**: with this command it is possible to activate the output used to control a suitable external relay connected to one or more lamps to be turned on.
- **Auxiliary function**: this command is used to activate external devices or services such as courtesy lights, automations, etc.; an external relay must be installed to use this function.
- **Landing call**: by wiring the terminal in the video entryphone it is possible to differentiate the sound of a call from the landing call button (landing, secondary entrance, etc.) to distinguish it from a call from the outdoor station.
- **Intercom call**: used to make calls between video entryphones, between audio and video entryphones, and between audio entryphones in the same system.
- **Additional ringtones**: if the acoustic call signal has to be send to different parts of the system (for example in large homes), it is possible to install external repeaters.

In the Due Fili Plus system all functions are created using digital controls; these controls are data which can be sent from each device containing information which is used to activate a different function (lock opening, etc.).

The actuators can be relays or voltage generators present in the power supplies that are controlled by MASTER devices (entrance panels) once the data package containing the control to be implemented has been received.

3.5" Due Fili Plus video entryphone (19558)

System architecture

There are different types of installation for creating a Due Fili Plus video door entry system, the most common is the type with one or more outdoor stations and one or more indoor stations. These layouts can differ according to the functions and services required (connection of a number of video entryphones in series, intercom calls, call repeaters, actuators for external services, etc.) for which specific supplementary modules are needed (supplementary power supplies, external relays, etc.). The examples in the figures show a main power supply in the systems that use a single outdoor station.
For systems with intercommunicating audio/video entryphones isolated from the main system, or if there are several external sources of audio-video signals (outdoor stations with video camera and voice unit) or if you want to create separate communication sectors or if there are systems already installed in a building complex, then further additional devices will be needed, such as:

- concentrators (69MX);
- additional power supplies (6923, 6582);
- separators (692S);
- video distributors (692D, 692D/2).

Main technical data

- Bus cable: 2 twisted, non-polarised wires 732H.E.100, 732I.E.100;
- system topology: linear (in-out) or star point;
- number of devices: up to **6400 indoor stations** and up to **484 panels**;
- the maximum distance between two furthest devices (entryphones, video entryphones or panels) in colour system is **1200 m***;
- audio intercom between all the audio and video entryphones or between groups of audio and video entryphones;
- single call that can make up to **8 monitors or touch screen supervisors ring at the same time**;
- different call tones for entrance panel, landing and intercom.

The main devices in the system are:

Concentrator (69MX), required in the event of:

- several video panels in series;
- presence of a landing call button and an audio/video 69AM interface, depending on the installation.

Separator with power supply (692S), required in the event of:

- a building complex with secondary panels;
- intercom “island”;
- up to a maximum of 16 separators can be used.

Audio/video interface (69AM), required in the event of:

- room control (baby-watching) with indoor video cameras - used for connection with 4 video cameras (expandable up to a maximum of 16 using the specific expansion modules 69AM/4 - maximum 3).
- (audio-video) landing call.

Additional power supplies (6923, 6582), required in the event of:

- several panels in series;
- several concentrators in series;
- presence of a porter’s switchboard (Elvox product).
- indoor video camera power supply (20560, 20565, 14560, 14565).

Video distributor (692D, 692D/2), required in systems with star-point topology.

Relay actuator (170/101) - device with 1 NO relay, can be used as a relay to activate an auxiliary service (for example stair lights) or as a call repeater relay from the entrance panel or intercom.

Digital relay actuator (69RH, 69PH) - programmable device with 2 NO relays for two operating modes:

a. as a timed relay for activating two auxiliary services (e.g. stair lights) and in this way the two outputs come on together (in 69PH on the other hand the 2 outputs remain independent);
b. as a call repeater relay from the entrance panel or intercom.

Entrance panel
video entryphone
Pixel

Video touch screen
4.3” Full Flat colour with
video entryphone function

* Refer to the configurations indicated in the Elvox Video door entry system catalogue.

Programming

The functions are programmed as follows:

- configuration directly via the video entryphone and entrance panel;
- configuration via interface for PC with USB connector 692I/U and Save Prog software (to use for panels other than Pixel). Pixel panels do not require the 692I/U interface as they have a mini USB input for programming.

The “SaveProg” software is in any case required when:

- there are more than 4 indoor stations with simultaneous call;
- there is a video selector 69AM;
- there are up to 4 call groups.

Basic elements

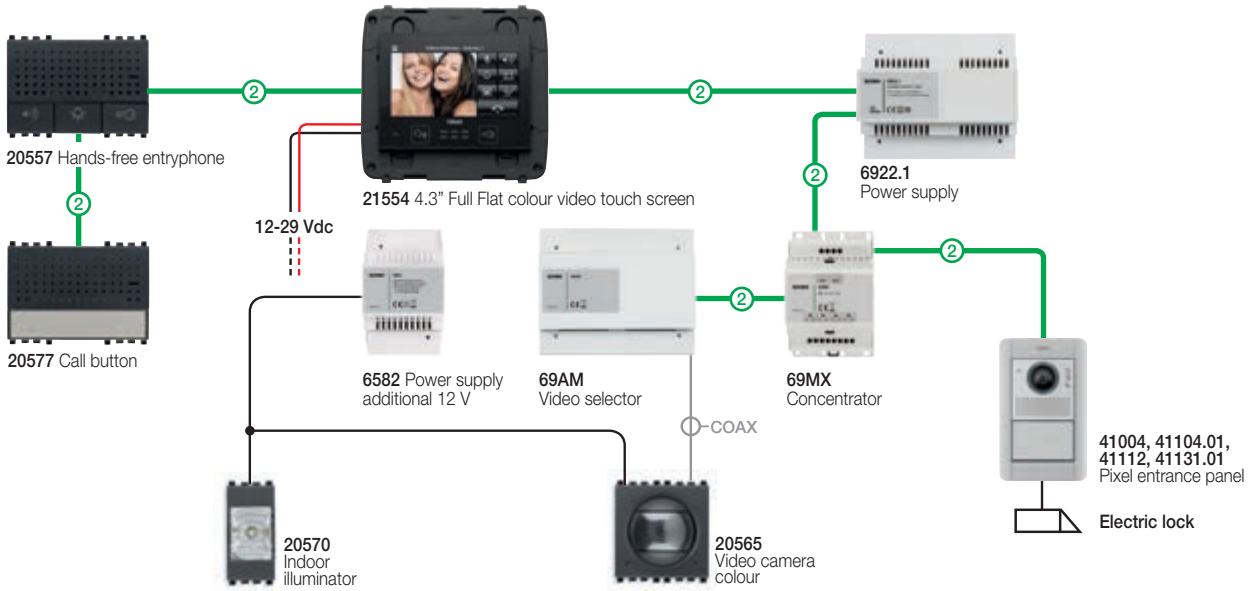
The Due Fili system enables the construction of systems with digital identification of devices and controls. The most important advantage compared to other video door entry systems (classic “8 wire + n” analogue or digital with multi-wire DigiBus) is that the whole system is wired with just 2 twisted, non-polarised conductors, on which the data, audio signal, video signal and necessary power supply are carried to the connected devices. The system makes wiring operations considerably simpler and is ideal for use on both small and medium residential systems of up to 4 housing units, and potentially on large building complexes (up to a maximum of 6,400 indoor panels).

Another advantage is the extreme flexibility: new indoor stations can be added by simply shunting them from the riser, without having to wire new cables to the power supply if the system is expanded later. The digital management of all the commands (ring tone duration, type of tone, call duration, answer duration, entry with password or programmed key, etc.) allows all the parameters for devices to be customised to meet individual users’ needs. Depending on the configuration of the system, each of the connected devices is characterised by a numerical code and is able to receive and send data packets containing all the information related to the management of the communication; all the control operations typical of a video door entry system such as calling, electrical unlocking, stair lighting, etc., are therefore coded.

Voice communication and video signals are still sent in analogue form.

If the Due Fili Plus system is combined with the home automation system (control unit 21509 and video touch screen 21553.2 or 21554, monitor 21550 or 20550 or 14550 + modules 01960 and 01963 or video entryphone 19558 with module 01965), it is possible to activate certain functions in the video door entry system (for example lock release, switching on video cameras, etc.) starting from the commands sent from the automation system (for example from the 2 or 3-module devices, from the Vimar By-web application, etc.).

Example of wiring diagram for a single home with intercom calls and baby-watching.



Integration of By-me with Elvox CCTV

The CCTV system can be integrated into the home automation system by connecting the By-me system actuators to the alarm inputs and outputs on the DVR/NVR and the CCTV system is managed using the home automation supervisors (art. 21553.2 and 21554).
The functions are accessed in two different ways:

- **basic mode** only for live viewing of the images captured by the IP video cameras;
- **advanced mode**, to control the DVR/NVR (to view live and recorded images) and move the PTZ video cameras, which record the alarm output status after the clean contact connected to a By-me relay actuator is closed, an alarm is generated in the CCTV system.
  For example, if a technical alarm is triggered (gas, flooding, etc.), you can:
  a. activate a video camera in the CCTV system connected to the DVR/NVR and start the image recording;
  b. record a photo taken by the video camera and send it to the set e-mail address via the Web server.

Moreover with By-me it is possible to create an “away from home” scenario in which, by closing a clean contact, the DVR/NVR starts recording and when you come home and the contact is opened, the recording is interrupted.

By-me supervisors

The **10" multimedia IP video touch screen** (21553.2) is the device used to manage the CCTV functions most effectively.
With the "Video camera" application it is possible to use the **basic functions:**
- live viewing of the stream from a single video camera at a time (Due Fili Plus analogue or IP).

Connecting to the Elvox DVR/NVRs via the LAN network connection, and using the "CCTV Controller" application (compatible with all DVR/NVRs, in compression H.264 and H.265) integrated with the Vimar interface on the 10” multimedia video touch screen, it is possible to use **advanced functions** such as:
- live video camera viewing;
- PTZ video camera remote control (Pan, Tilt, Zoom);
- recording playback;
- screenshots;
- streaming viewing from various systems;
- configuration of connection parameters from the multimedia video touch screen interface;
- CMS: management and simultaneous viewing of CCTV devices with different technologies.

The **4.3” colour video touch screen** (21554) is used to view the analogue video cameras in the Due Fili Plus system.
Via the **Web server** (01945, 01946), installed in the home automation system, it is possible to view the live recordings from the IP video cameras installed in the CCTV system remotely (from PC, tablet or smartphone).

Functions available with By-me supervisors

Article	Function			
	Video camera viewing		Viewing and control	
	Analogue video camera viewing on video entryphone Bus	Viewing IP video cameras	AHD via DVR control (live, playback, PTZ)	IP via NVR H.264 control (live, playback, PTZ)
21553.2	✓	✓	✓	✓
21554	✓	-	-	-
19558 + 01965	✓	-	-	-
01945 or 01946	-	✓	-	-

The PC used for CCTV video camera viewing must have a browser installed for Internet navigation (Safari vers. 5.1 or later and Google Chrome vers. 14 or later); while mobile devices (iOS, Android) must have the By-web app which can be downloaded free of charge from Apple Store and Google Play Store.

Basic elements

The system and applications offered are used to create functions for video monitoring of different environments in the home (video control or rooms and the garden, “baby-watching") and for video surveillance of commercial properties (shop windows, internal displays etc.).
The **CCTV functions** can be classified as **basic** or **advanced**:
- the *basic functions* concern the possibility to view recorded images in real time;
- the *advanced functions* also have the possibility to record the images and use video analysis for other actions.

For the basic functions the **By-me supervisors** and video cameras are sufficient, while for the advanced functions, depending on the chosen technology, the system must include devices such as DVR or NVR.

System architecture

The CCTV system can be created using analogue or IP video cameras. One of the advantages of IP video cameras is the possibility to transfer the images to a (local or remote) IP network without using specific gateways. The supervisors, directly interfacing with the **analogue** and **IP** video cameras, are described in the following table:

By-me supervisors

Article	Video camera viewing	
	Analogue video camera viewing on video entryphone Bus	IP video camera viewing
21553.2	✓	✓
21554	✓	-
19558 + 01965	✓	-
01945 or 01946	-	✓

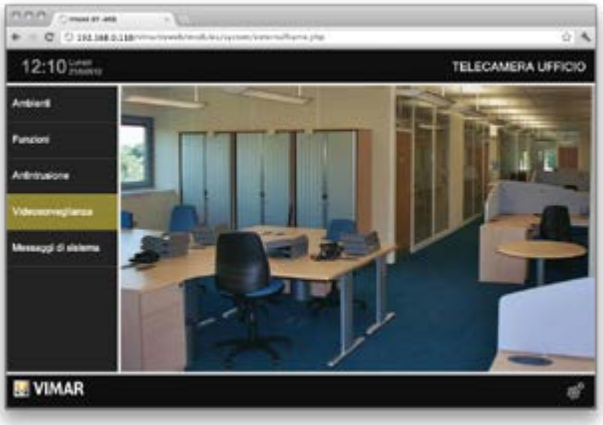
The supervisors must be powered according to their own features, just like the video cameras and DVR/NVRs.

Devices and their use

To create a CCTV system managed by home automation supervisors, the following devices can be used:

- **10" IP multimedia video touch screen** (21553.2) for supervision and local control of DVR/NVRs via an advanced, user-friendly touch screen graphic interface; or for remote control of IP video cameras, via Web server (01945, 01946).
  With the “Video camera” application already installed in the device, it is possible to shift the live images of the analogue (with video selector 69AM) or IP video cameras.
  The optional "CCTV Controller" application is also used to manage the Elvox DVR and NVRs (to view recordings, search for images, move the PTZ video cameras).
- **4.3" Full Flat colour video touch screen** (21554) to supervise the analogue video cameras connected to the Due Fili Plus circuit on the video door entry system (used to shift analogue video cameras).

PC browser screen with general "Video surveillance" settings.



PC browser screen with video camera recording.

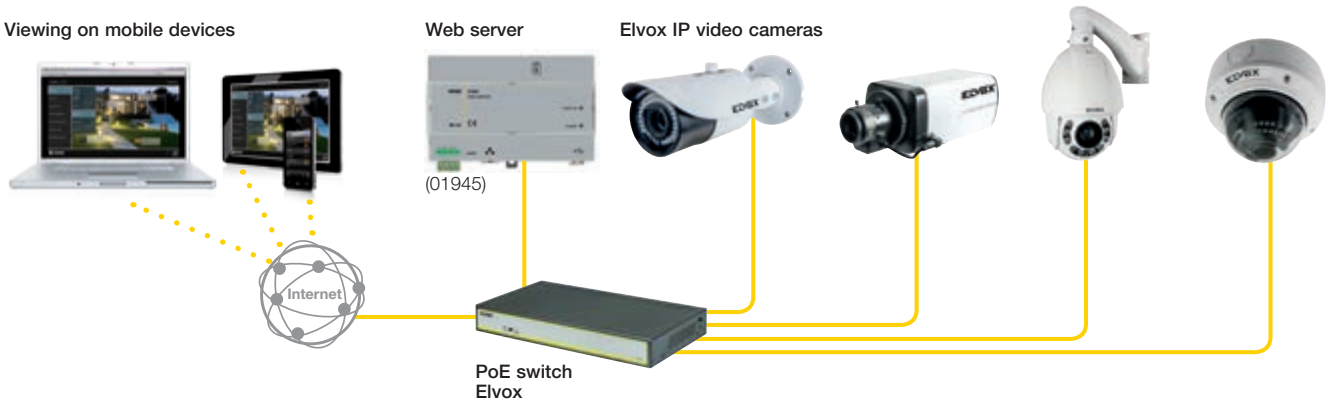
PC browser screen with video camera configuration.

10" IP multimedia video touch screen with "CCTV Controller" app viewing

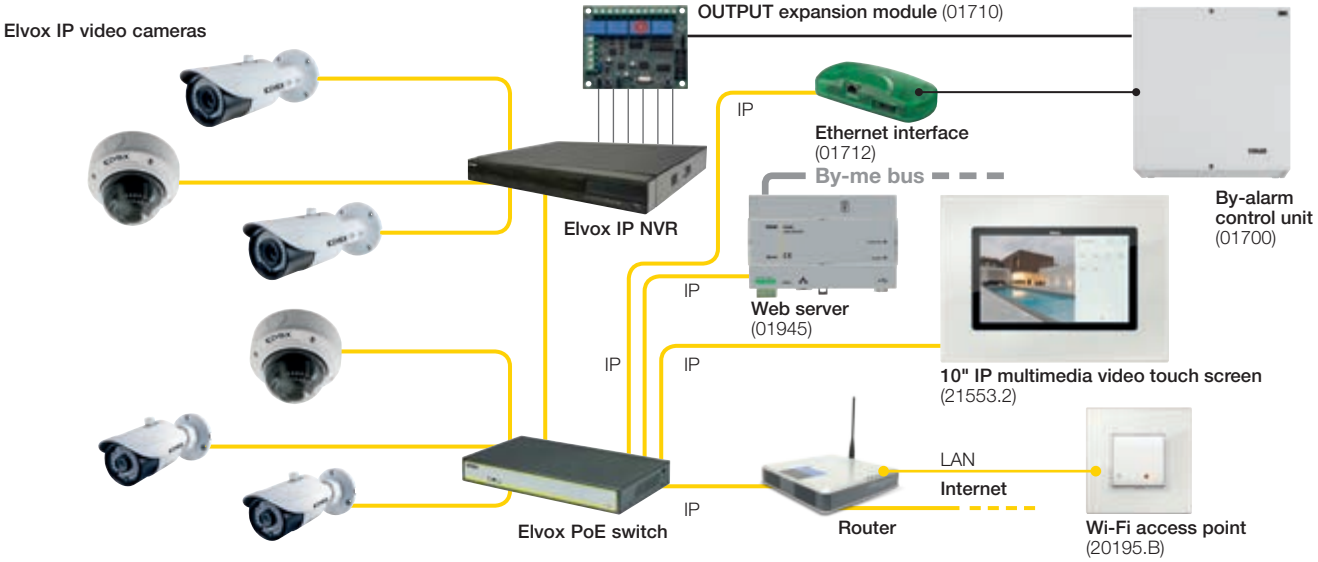
- **Arké video entryphone** (19558) like the 21554 is used to supervise the analogue video cameras connected to the Due Fili Plus circuit on the video door entry system (used to shift analogue video cameras).
- **Web server** (01945, 01946) used to shift the IP video cameras from local network or remotely, viewing the images on a mobile device (smartphone) with the By-web app.
- **Flush-mounting video cameras** (20560, 14560, 20565, 14565), available in 1 or 2 module versions, to record the area being monitored and then view the images on the video touch screens (21554 and 21553.2) or on the Arké video entryphone (19558).
  The video camera with 2 modules is also equipped with a built-in microphone for audio monitoring.
  A DVR can be connected for (video/video+audio) recording, or an IP video encoder for live viewing from a data network.
- **Indoor and outdoor video cameras**, for monitoring environments inside and outside the building, are available with AHD or IP technology, to respond to various installation needs and be managed by By-me supervisors according to their respective specific features.
- **DVR/NVR** (refer to the "Security" catalogue), to record the video flows from the connected video cameras; the device analyses the images to detect movement and interfaces with By-me supervisors via the IP network. Live viewing with 21553.2 and the "CCTV Controller" app.
- **Flush-mounting monitor** (19558) capable of viewing the images sent and interfacing with the audio system for audio monitoring.
- **12 Vdc power supplies** for video cameras (PoE for IP video cameras).

By-me: home automation

Example of web server integration with the IP CCTV system.

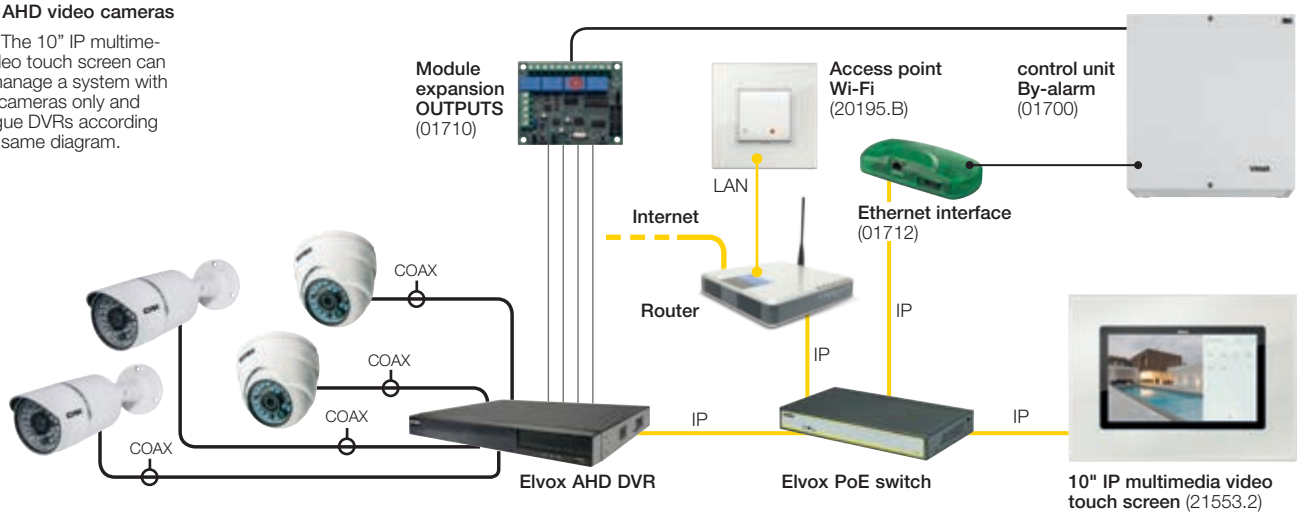


CCTV system managed from 10" IP multimedia video touch screen.

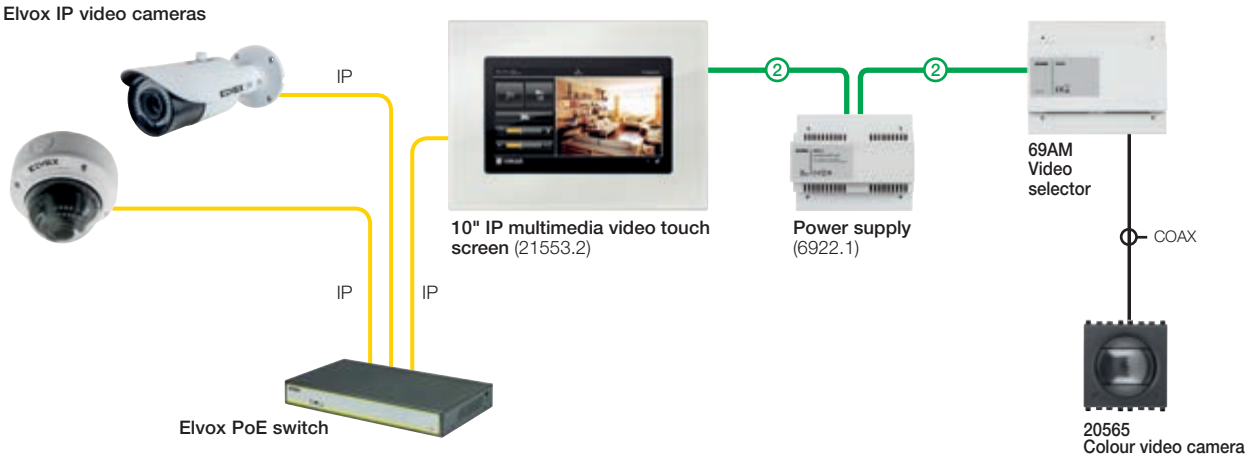


Elvox AHD video cameras

Note. The 10" IP multimedia video touch screen can also manage a system with video cameras only and analogue DVRs according to the same diagram.

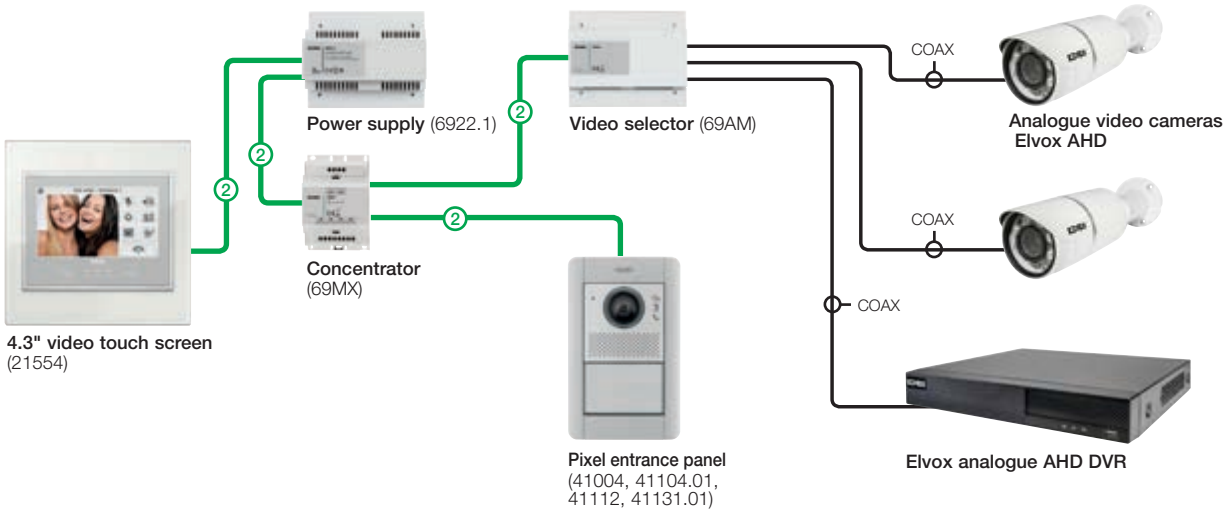


Example of basic integration of the 10" multimedia IP video touch screen with the IP CCTV and Due Fili Plus system.



Example of basic integration of the 4.3" video touch screen with the Due Fili Plus video entryphone module and the CCTV system.

Note. The video cameras 46516.212B connected directly to the selector 69AM must be switched to CVBS using the command switch on the cable.



Integration with third party systems

The Vimar range includes two home automation systems:

- **By-me** for **home automation**, based on a protocol which can be integrated on the KNX standard: this is a Bus system which can be configured via the home automation control unit 21509 or via dedicated EasyTool Professional software (which can be downloaded free of charge from the website www.vimar.com).
- **Well-contact Plus** for **building automation** based on the Protocol with KNX standard: it is a bus system that can be configured using the ETS software distributed by the KNX association.

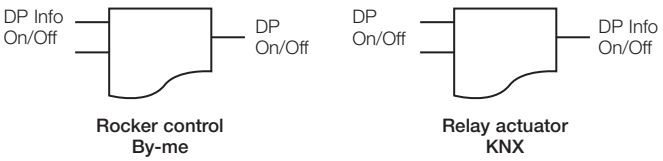
Both systems are based on **events bus**: the structure of the protocol is optimised to carry the change in status information of the various sensors, detectors, push buttons etc. to the actuators and information users. This guarantees that information is transmitted rapidly. The By-me bus and Well-contact Plus KNX are not therefore based on periodic request systems or **polling** to manage information, in contrast to other automation systems subject to this type of policy.

The strength of the KNX system is the interoperability between products of different manufacturers (devices certified with KNX standard), which guarantees full integration of the most advanced functions in latest-generation systems.
Another characteristic of the KNX system is the wide range of interfaces and gateways to other systems (BacNet, DALI, Mbus, EnOcean, etc.) which ensures full integration of advanced systems (electrical, mechanical, or other).

A strength of the By-me system on the other hand is the easy programming and full integration of the many functions offered by the system (lighting automation, motorisations, burglar, sound system, energy management, temperature control, video door entry systems and CCTV).

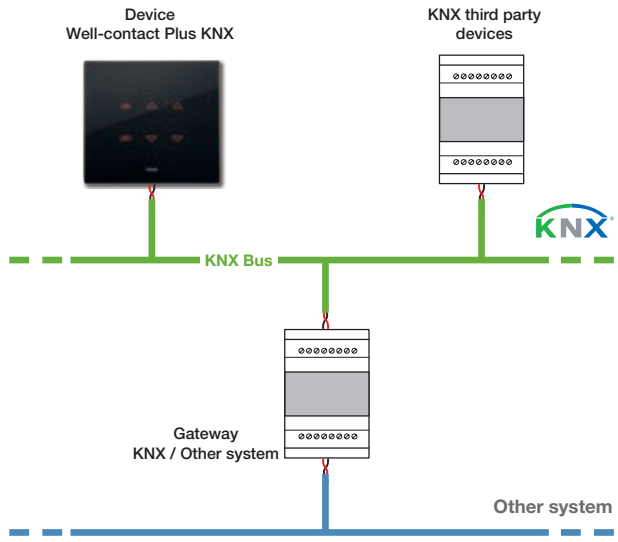
By-me: an "open" system

By-me devices can communicate with certified KNX devices through **datapoints (DP)**: the protocol is defined by the "*Interworking*" model of the KNX standard.
The datapoints are implemented in the By-me system as *Group Objects* in line with what defined in the KNX architecture.



As the By-me system is based on the same principles as the KNX, this system is in fact "**open**", and can therefore be integrated physically (with the same Bus), as well as with KNX systems, also with third party systems using the wide range of interfaces and gateways available on the market.

Integration of KNX Well-contact Plus with other systems

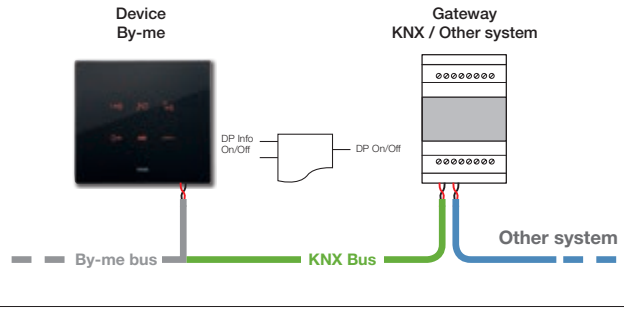


Interoperability and integration, guaranteed by the standardisation of communication protocols and the wide range of companies and certified devices on the market.

By-me integration ("open" system) with KNX systems

Another strength of the By-me system is the possibility to use the same access protocol used by the KNX, ensuring coexistence as well as dialogue among the devices in the same physical network.

By-me integration ("open" system) with other systems via KNX



By-me system: "open" to the KNX standard

IT IS possible to use By-me devices to cooperate with devices conforming to the KNX standard, and select them from the list of **datapoints** and **functional blocks** implemented by the individual devices.

To be able to use the *objects* made available by the By-me devices we need to be able to link them to the *objects* of other devices.
THe link between the Vimar *objects* and other KNX devices is defined via the ETS software, defining the groups on which the KNX devices work to ensure that they are the same as those used by the By-me devices.

By-me system: "open" to the IP

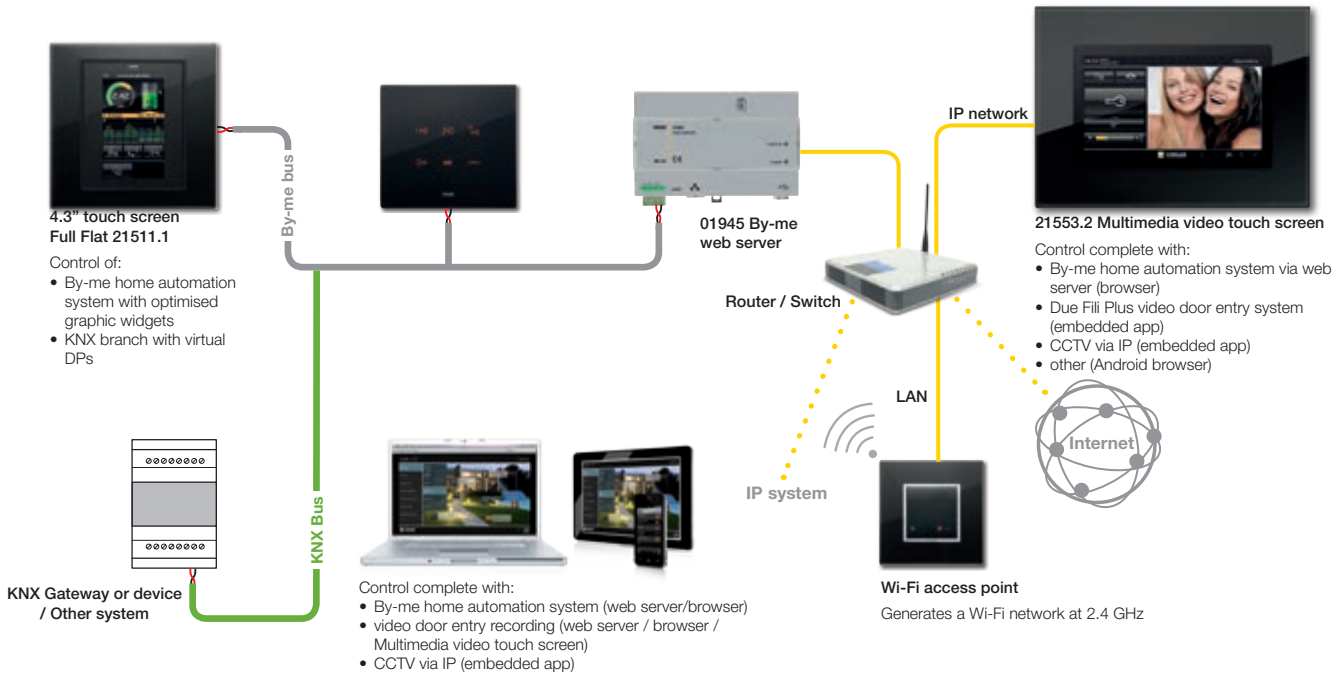
The By-me home automation system is also open to integrations with third-party systems thanks to the **10" IP multimedia video touch screen** (21553.2): this is an IP supervisor with Android operating system and pre-loaded Vimar applications and a browser for supervising the automation system and any third-party systems also equipped with an IP web server (compatible with Android browser).

10" IP multimedia video touch screen

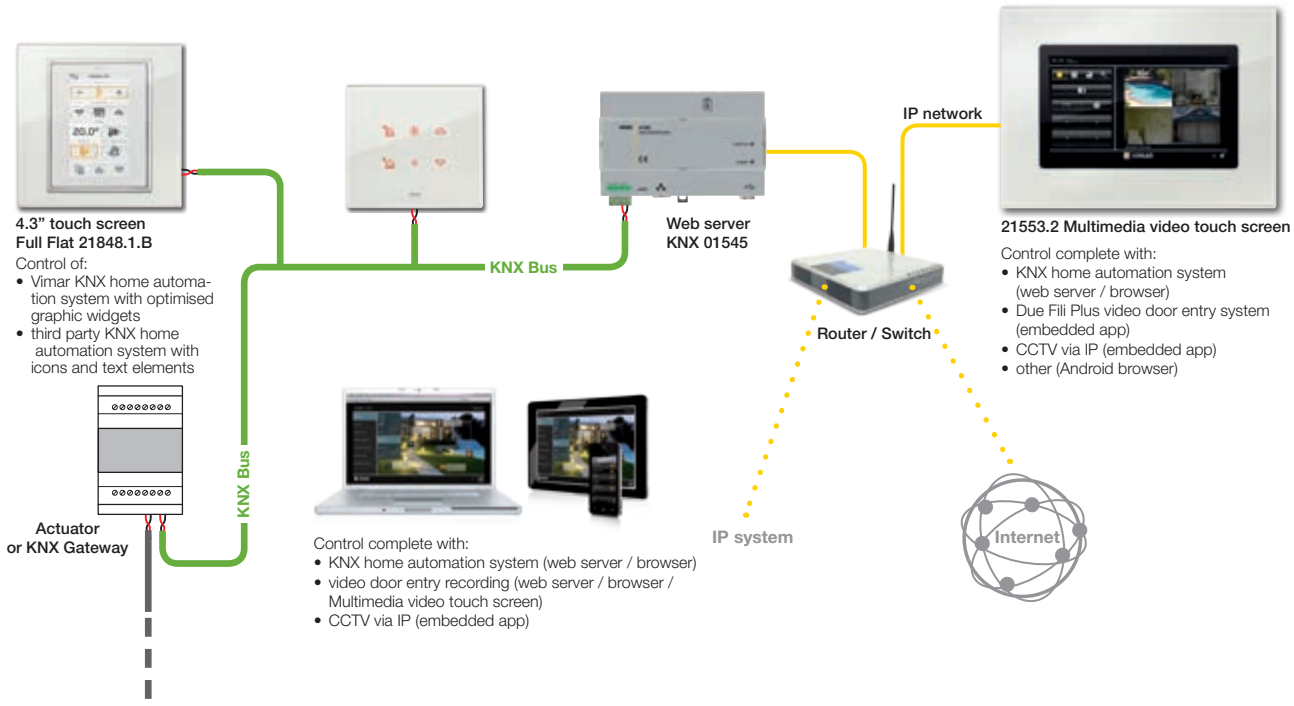
Some icons on the Multimedia video touch screen.

NOTE.
The Android browsers on the 10" IP multimedia video touch screen may not support all the graphic elements and the resolution required by the web pages to be displayed. The integrator/installer is responsible for checking and validating the integrated solution. The device resolution is 1024x600 pixel.

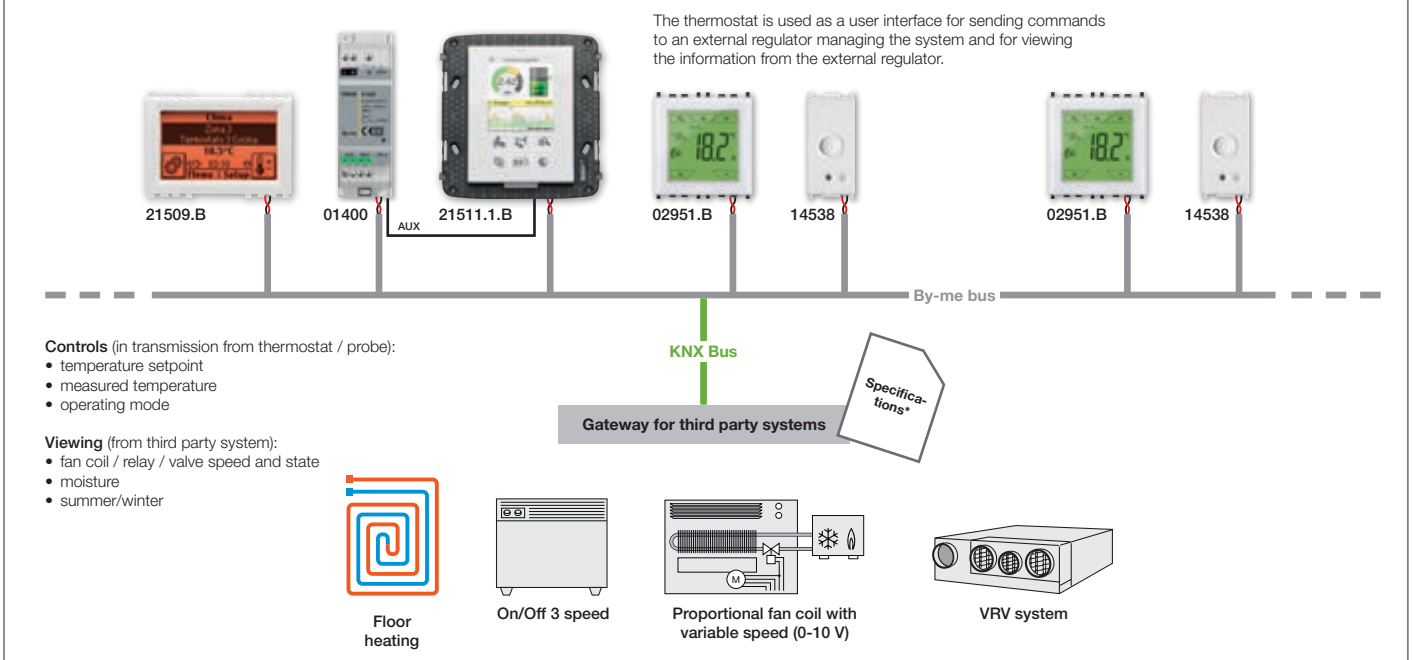
Architecture of By-me integrated systems (logic diagram)



Architecture of KNX integrated Well-contact Plus systems (logic diagram)

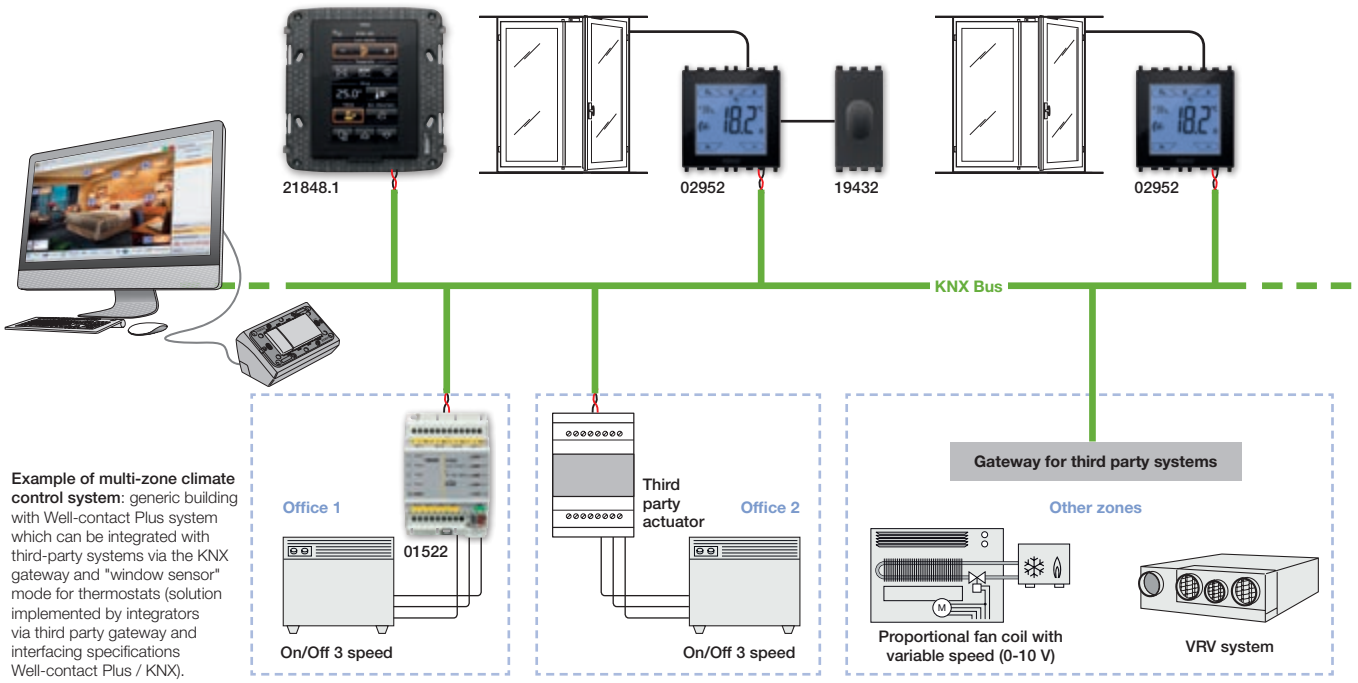


Example of By-me integrated system (logic diagram)



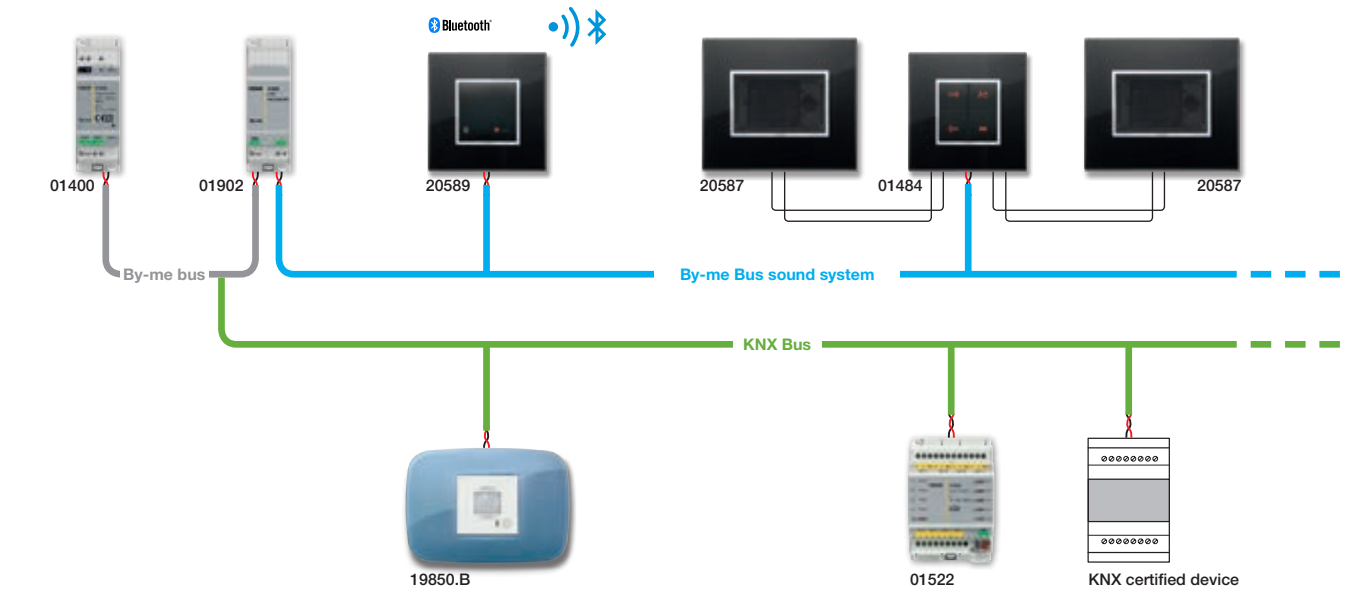
*For integration specifications contact the Sales Network or Vimar Customer Service.

Example of KNX integrated Well-contact Plus system (logic diagram)



Example of multi-zone climate control system: generic building with Well-contact Plus system which can be integrated with third-party systems via the KNX gateway and "window sensor" mode for thermostats (solution implemented by integrators via third party gateway and interfacing specifications Well-contact Plus / KNX).

Example of KNX Well-contact Plus system integrated with By-me sound system (logic diagram)



Implement an integrated system

The correct operation of the **integrated system** is the responsibility of the installer.
Vimar makes available the documents required for integration (By-me specifications and ETS database), clearly indicating which datapoints are usable, from and to the system, and the limits of these integrations.

Therefore **Vimar does not guarantee a priori the correct operation of the implemented solution**.

For integration specifications contact the Sales Network or Vimar Customer Service.

Supervision

21553.2
10" IP multimedia video touch screen for Due Fili Plus video door system and By-me system supervising by web server, supply voltage PoE or 12 Vdc

21665.11
Aluminium
Dimensions: 345x250 mm

21665.70
White diamond
Dimensions: 345x250 mm

21665.76
Black diamond
Dimensions: 345x250 mm

21554
4,3" Full Flat, for Due Fili Plus video door system and control, temperature sensor input, with built-in 8-module mounting frame, grey.
To be completed with Eikon, Arké or Plana cover plates. Depth: 46,7 mm

21554.B
4,3" Full Flat, for Due Fili Plus video door system and control, temperature sensor input, with built-in 8-module mounting frame, white.
To be completed with Eikon, Arké or Plana cover plates. Depth: 46,7 mm

21554.BN
4,3" Full Flat, for Due Fili Plus video door system and control, temperature sensor input, with built-in 8-module mounting frame, neutral.
To be completed with Eikon, Arké or Plana cover plates. Depth: 46,7 mm

01963
Due Fili Plus video door entry system module

21511.1
4,3" Full Flat, for control, temperature sensor input, with built-in 8-module mounting frame, grey. Depth: 39,9 mm

21511.1.B
4,3" Full Flat, for control, temperature sensor input, with built-in 8-module mounting frame, white. Depth: 39,9 mm

21511.1.BN
4,3" Full Flat, for control, temperature sensor input, with built-in 8-module mounting frame, neutral. Depth: 39,9 mm

21512.1
Full Flat touch screen, for control, temperature sensor input, grey
- 3 modules. Depth: 37 mm

21512.1.B
Full Flat touch screen, for control, temperature sensor input, white
- 3 modules. Depth: 37 mm

21512.1.BN
Full Flat touch screen, for control, temperature sensor input, neutral
- 3 modules. Depth: 37 mm

21509
Control unit for control and configuration, temperature sensor input, supplied with V51923 frame for DIN (60715 TH35) rail installation, 3 modules - grey. Supplied with RJ45 socket connector and V51921 frame. Depth: 37 mm

21509.B
Control unit for control and configuration, temperature sensor input, supplied with V51923 frame for DIN (60715 TH35) rail installation, 3 modules - white. Supplied with RJ45 socket connector and V51921 frame. Depth: 37 mm

21509.N
Control unit for control and configuration, temperature sensor input, supplied with V51923 frame for DIN (60715 TH35) rail installation, 3 modules - Next. Supplied with RJ45 socket connector and V51921 frame. Depth: 37 mm

1-module and 3-module frame for DIN (60715 TH35) and nib for touch screen

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	ARKÉ	IDEA	PLANA

Supervision

19558
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, grey. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

19558.D
As above,
with function for hearing aid wearers

19558.B
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, white. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

19558.D.B
As above,
with function for hearing aid wearers

19558.M
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, Metal. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

01965
By-me module for Due Fili Plus video entryphone

VIEW IoT smart life
sms VIMAR
App By-phone**

01942
GSM phone dial, for direct connection to Bus 12-24 V~ 50/60 Hz or 12-30 Vdc (SELV), 6 x 17,5 mm modules

VIEW IoT smart life
www VIMAR
App By-web**

01945
Web server for local and remote control of the By-me system via IP, 8 x 17,5 mm modules

VIEW IoT smart life
www VIMAR
App By-web**

01946
Web server Light for local and remote control of the By-me system via IP, manages up to 64 devices, 8 x 17,5 mm modules

01993
Hardware interface for By-me system programming by Bus with RJ11 socket. It is necessary EasyTool Professional software

01468
Logic unit for logic, mathematical, timing and messaging functions, 1 x 17,5 mm modules

01400
Supply unit, 29 Vdc 400 mA output, 230 V~ 50/60 Hz, 2 x 17,5 mm modules

01401
Supply unit, 29 Vdc 1280 mA output, 120-230 V~ 50/60 Hz, 8 x 17,5 mm modules

01830
Supply unit 12 Vdc output, 120-230 V~ 50/60 Hz, 4 x 17,5 mm modules

01831
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1,5 x 17,5 mm modules

▲ 01831.1
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1 x 17,5 mm module

01845.1
Line coupler, 2 x 17,5 mm modules

Prese RJ45

20329
RJ11 special jack for Bus, screw terminals, grey. Depth: 33,6 mm

20329.B
RJ11 special jack for Bus, screw terminals, white. Depth: 33,6 mm

20329.N
RJ11 special jack for Bus, screw terminals, Next. Depth: 33,6 mm

19329
RJ11 special jack for Bus, screw terminals, grey. Depth: 33,6 mm

19329.B
RJ11 special jack for Bus, screw terminals, white. Depth: 33,6 mm

19329.M
RJ11 special jack for Bus, screw terminals, Metal. Depth: 33,6 mm

16339
RJ11 special jack for Bus, screw terminals, grey. Depth: 33,2 mm

16339.B
RJ11 special jack for Bus, screw terminals, white. Depth: 33,2 mm

14329
RJ11 special jack for Bus, screw terminals, white. Depth: 32,6 mm

14329.SL
RJ11 special jack for Bus, screw terminals, Silver. Depth: 32,6 mmm

** App available on Vimar site and Apple and Google Play store.

Download on the App Store
GET IT ON Google Play

Supervision

Flush mounting supply units

20580
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, grey. Depth: 40 mm

20580.B
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, white. Depth: 40 mm

20580.N
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, Next. Depth: 40 mm

19580
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, grey. Depth: 40 mm

19580.B
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, white. Depth: 40 mm

19580.M
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, Metal. Depth: 40 mm

14580
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, white. Depth: 39 mm

14580.SL
Supply unit, 32 Vdc 100 mA output, 110-230 V~ 50/60 Hz, Silver. Depth: 39 mm

Cables and accessories

01840.C
Bus system cable, 2x0,50 mm^2, with LSZH sheath, CPR Cca s1b d1 a1 class, suitable for I category cables (U0 = 400 V), yellow - 100 m

01840.E
Bus system cable, 2x0,50 mm^2, with LSZH sheath, CPR Eca class, suitable for I category cables (U0 = 400 V), white - 100 m

01841.E
Bus system cable, 2x0,50 mm^2, shielded, with LSZH sheath, CPR Eca class, suitable for I category cables (U0 = 400 V), for marine application, white - 100 m

01839
Removable 2 screw terminals, for Bus system

Control and functions

Eikon Tactil electronic home&building automation controls

21520
4 programmable buttons for 2 single controls or scenes - 2 modules. Depth: 38 mm

21540
6 programmable buttons for 3 single controls or scenes - 3 modules. Depth: 38 mm

21847
8 stickers sheets with symbols and words for customization of standard function for Eikon Tactil controls

▲ **21847.1**
4 sheets with labels featuring symbols and wording for external/internal hotel room or cabin functions for Eikon Tactil controls

▲ **21847.2**
4 stickers sheets with symbols and words for customization of standard function for Eikon Tactil controls

Eikon, Arké and Plana home&building automation controls

01480
4-button - 2 modules

01480.TR
As above, tropicalized. Depth: 20 mm

01481
4-button + NO 16 A 120-240 V~ 50/60 Hz relay output - 2 modules. Depth: 37 mm

01482
4-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor - 2 modules. Depth: 37 mm

01485
6-button - 3 modules

01485.TR
As above, tropicalized. Depth: 20 mm

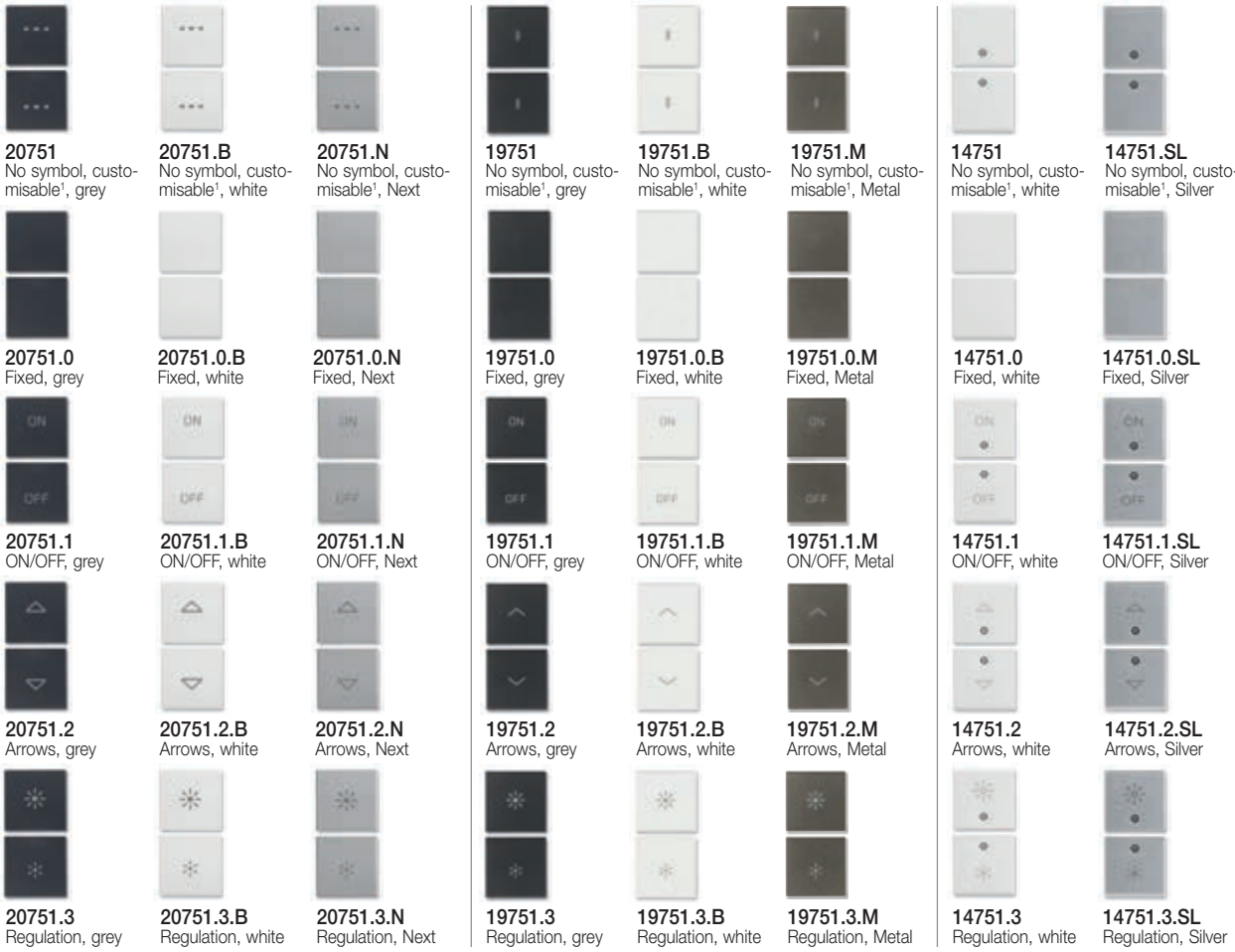
01486
6-button + NO 16 A 120-240 V~ 50/60 Hz relay output - 3 modules Depth: 37 mm

01487
6-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor - 3 modules. Depth: 37 mm

EIKON	ARKÉ	PLANA

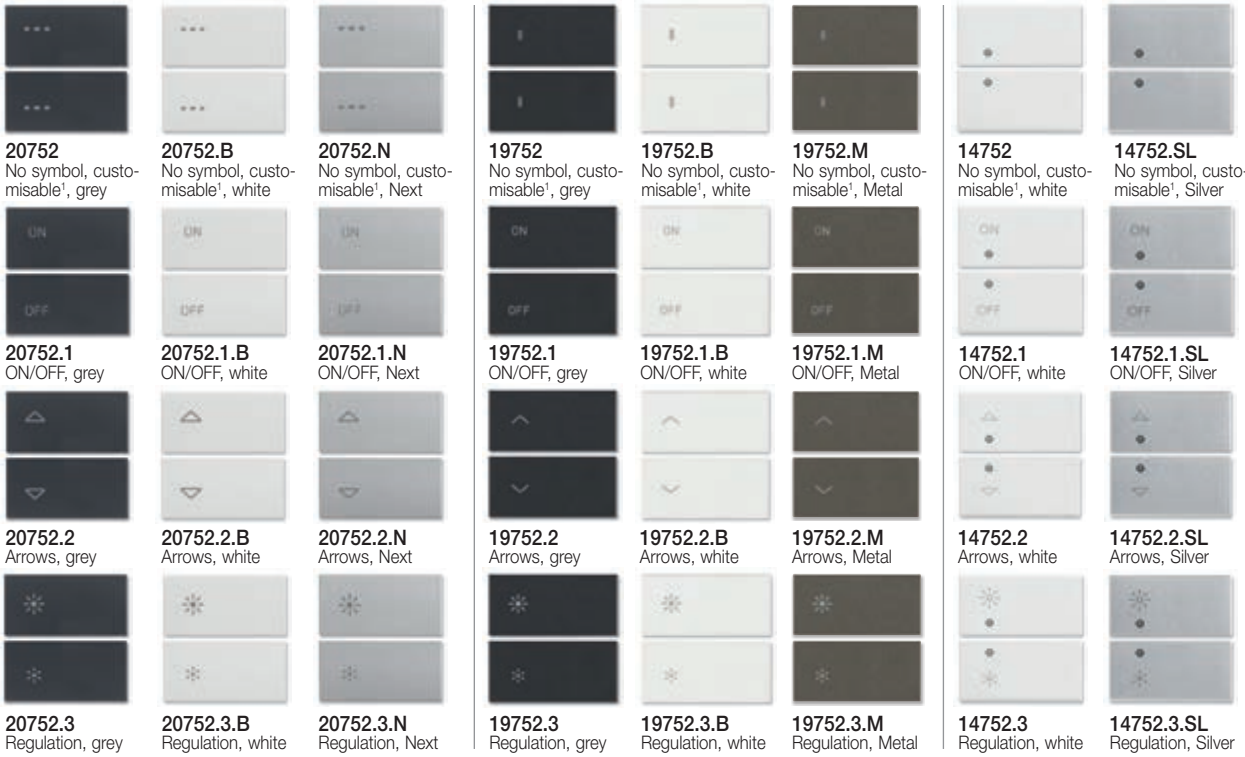
Control and functions

Interchangeable half-buttons for home&building automation - 1 module



EIKON			ARKÉ			PLANA	
20751 No symbol, customisable[1], grey	**20751.B** No symbol, customisable[1], white	**20751.N** No symbol, customisable[1], Next	**19751** No symbol, customisable[1], grey	**19751.B** No symbol, customisable[1], white	**19751.M** No symbol, customisable[1], Metal	**14751** No symbol, customisable[1], white	**14751.SL** No symbol, customisable[1], Silver
20751.0 Fixed, grey	**20751.0.B** Fixed, white	**20751.0.N** Fixed, Next	**19751.0** Fixed, grey	**19751.0.B** Fixed, white	**19751.0.M** Fixed, Metal	**14751.0** Fixed, white	**14751.0.SL** Fixed, Silver
20751.1 ON/OFF, grey	**20751.1.B** ON/OFF, white	**20751.1.N** ON/OFF, Next	**19751.1** ON/OFF, grey	**19751.1.B** ON/OFF, white	**19751.1.M** ON/OFF, Metal	**14751.1** ON/OFF, white	**14751.1.SL** ON/OFF, Silver
20751.2 Arrows, grey	**20751.2.B** Arrows, white	**20751.2.N** Arrows, Next	**19751.2** Arrows, grey	**19751.2.B** Arrows, white	**19751.2.M** Arrows, Metal	**14751.2** Arrows, white	**14751.2.SL** Arrows, Silver
20751.3 Regulation, grey	**20751.3.B** Regulation, white	**20751.3.N** Regulation, Next	**19751.3** Regulation, grey	**19751.3.B** Regulation, white	**19751.3.M** Regulation, Metal	**14751.3** Regulation, white	**14751.3.SL** Regulation, Silver

Interchangeable half-buttons for home&building automation - 2 modules



EIKON			ARKÉ			PLANA	
20752 No symbol, customisable[1], grey	**20752.B** No symbol, customisable[1], white	**20752.N** No symbol, customisable[1], Next	**19752** No symbol, customisable[1], grey	**19752.B** No symbol, customisable[1], white	**19752.M** No symbol, customisable[1], Metal	**14752** No symbol, customisable[1], white	**14752.SL** No symbol, customisable[1], Silver
20752.1 ON/OFF, grey	**20752.1.B** ON/OFF, white	**20752.1.N** ON/OFF, Next	**19752.1** ON/OFF, grey	**19752.1.B** ON/OFF, white	**19752.1.M** ON/OFF, Metal	**14752.1** ON/OFF, white	**14752.1.SL** ON/OFF, Silver
20752.2 Arrows, grey	**20752.2.B** Arrows, white	**20752.2.N** Arrows, Next	**19752.2** Arrows, grey	**19752.2.B** Arrows, white	**19752.2.M** Arrows, Metal	**14752.2** Arrows, white	**14752.2.SL** Arrows, Silver
20752.3 Regulation, grey	**20752.3.B** Regulation, white	**20752.3.N** Regulation, Next	**19752.3** Regulation, grey	**19752.3.B** Regulation, white	**19752.3.M** Regulation, Metal	**14752.3** Regulation, white	**14752.3.SL** Regulation, Silver

[1] For the customisation of the buttons, see page 198

EIKON	ARKÉ	IDEA	PLANA

Control and functions

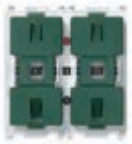
2- or 3-module devices. To complete with interchangeable 1- or 2-module buttons

20529
2 rocker push buttons + actuator for SLAVE dimmer 230 V~ 50 Hz, for: LED lamps and electronic transformers, RGB lamps and electronic transformers. Depth: 37 mm

20529.120
As above, 120 V~

19529
2 rocker push buttons + actuator for SLAVE dimmer 230 V~ 50 Hz, for: LED lamps and electronic transformers, RGB lamps and electronic transformers. Depth: 37 mm

19529.120
As above, 120 V~

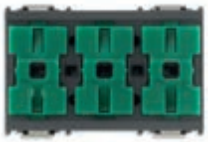


14529
2 rocker push buttons + actuator for SLAVE dimmer 230 V~ 50 Hz, for: LED lamps and electronic transformers, RGB lamps and electronic transformers. Depth: 37 mm

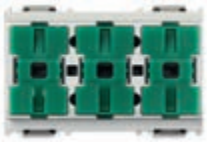
14529.120
As above, 120 V~

20549
3 rocker push buttons + actuator, for: MASTER dimmer 230 V~ 50 Hz for: 40-300 W incandescent lamps, 40-200 VA electronic transfomers, 10-120 W CFL lamps, 3-120 W LED lamps and LED electronic transfomers, protection fuse. Depth: 37 mm

19549
3 rocker push buttons + actuator, for: MASTER dimmer 230 V~ 50 Hz for: 40-300 W incandescent lamps, 40-200 VA electronic transfomers, 10-120 W CFL lamps, 3-120 W LED lamps and LED electronic transfomers, protection fuse. Depth: 37 mm



16989
3 rocker push buttons + actuator, for: MASTER dimmer 230 V~ 50 Hz for: 40-300 W incandescent lamps, 40-200 VA electronic transfomers, 10-120 W CFL lamps, 3-120 W LED lamps and LED electronic transfomers, protection fuse, grey. Depth: 36,5 mm



16989.B
3 rocker push buttons + actuator, for: MASTER dimmer 230 V~ 50 Hz for: 40-300 W incandescent lamps, 40-200 VA electronic transfomers, 10-120 W CFL lamps, 3-120 W LED lamps and LED electronic transfomers, protection fuse, white. Depth: 36,5 mm

14549
3 rocker push buttons + actuator, for: MASTER dimmer 230 V~ 50 Hz for: 40-300 W incandescent lamps, 40-200 VA electronic transfomers, 10-120 W CFL lamps, 3-120 W LED lamps and LED electronic transfomers, protection fuse. Depth: 36 mm

EIKON	ARKÉ	IDEA	PLANA

Control and functions

Detectors

20485
Passive infrared motion detector, grey.
Depth: 26,5 mm

20485.B
Passive infrared motion detector, white.
Depth: 26,5 mm

19485
Passive infrared motion detector, grey.
Depth: 26,2 mm

19485.B
Passive infrared motion detector, white.
Depth: 26,2 mm

16935
Passive infrared motion detector, grey.
Depth: 26 mm

16935.B
Passive infrared motion detector, white.
Depth: 26 mm

14485
Passive infrared motion detector, white.
Depth: 25,5 mm

14485.SL
Passive infrared motion detector, Silver.
Depth: 25,5 mm

20485.N
Passive infrared motion detector, Next.
Depth: 26,5 mm

19485.M
Passive infrared motion detector Metal.
Depth: 26,2 mm

20486
Orientable passive infrared motion detector, grey.
Depth: 26,5 mm

20486.B
Orientable passive infrared motion detector, white.
Depth: 26,5 mm

19486
Orientable passive infrared motion detector, grey.
Depth: 26,5 mm

19486.B
Orientable passive infrared motion detector, white.
Depth: 26,5 mm

20486.N
Orientable passive infrared motion detector, Next.
Depth: 26,5 mm

19486.M
Orientable passive infrared motion detector, Metal.
Depth: 26,5 mm

01828
Mini passive infrared motion detector, for surface mounting, white

EIKON	ARKÉ	IDEA	PLANA

Control and functions

In/out interfaces

20518
Interface for 2 traditional devices, grey.
Depth: 40 mm

20518.B
Interface for 2 traditional devices, white.
Depth: 40 mm

20518.N
Interface for 2 traditional devices, grey.
Depth: 40 mm

19518
Interface for 2 traditional devices, grey.
P.tà: 39,5 mm

19518.B
Interface for 2 traditional devices, white.
P.tà: 39,5 mm

19518.M
Interface for 2 traditional devices, Metal.
P.tà: 39,5 mm

16958
Interface for 2 traditional devices, grey.
Depth: 39,5 mm

16958.B
Interface for 2 traditional devices, white.
Depth: 39,5 mm

14518
Interface for 2 traditional devices, white.
Depth: 39 mm

14518.SL
Interface for 2 traditional devices, Silver.
Depth: 39 mm

20534
Actuator with 6 A 120-230 V~ change-over relay output, grey.
Depth: 40 mm

20534.B
Actuator with 6 A 120-230 V~ change-over relay output, white.
Depth: 40 mm

20534.N
Actuator with 6 A 120-230 V~ change-over relay output, Next.
Depth: 40 mm

19534
Actuator with 6 A 120-230 V~ change-over relay output, grey.
P.tà: 39,5 mm

19534.B
Actuator with 6 A 120-230 V~ change-over relay output, white.
P.tà: 39,5 mm

19534.M
Actuator with 6 A 120-230 V~ change-over relay output, Metal.
P.tà: 39,5 mm

16974
Actuator with 6 A 120-230 V~ change-over relay output, grey.
Depth: 39,5 mm

16974.B
Actuator with 6 A 120-230 V~ change-over relay output, white.
Depth: 39,5 mm

14534
Actuator with 6 A 120-230 V~ change-over relay output, white.
Depth: 39 mm

14534.SL
Actuator with 6 A 120-230 V~ change-over relay output, Silver.
Depth: 39 mm

20535
Actuator with 16 A 120-230 V~ change-over relay output, grey - 2 modules.
Depth: 37 mm

20535.B
Actuator with 16 A 120-230 V~ change-over relay output, white - 2 modules.
Depth: 37 mm

19535
Actuator with 16 A 120-230 V~ change-over relay output, grey - 2 modules.
Depth: 36,7 mm

19535.B
Actuator with 16 A 120-230 V~ change-over relay output, white - 2 modules.
Depth: 36,7 mm

16975
Actuator with 16 A 120-230 V~ change-over relay output, grey - 2 modules.
Depth: 36,5 mm

16975.B
Actuator with 16 A 120-230 V~ change-over relay output, white - 2 modules.
Depth: 36,5 mm

14535
Actuator with 16 A 120-230 V~ change-over relay output, white - 2 modules.
Depth: 36 mm

14535.B
Actuator with 16 A 120-230 V~ change-over relay output, Silver - 2 modules.
Depth: 36 mm

20535.N
Actuator with 16 A 120-230 V~ change-over relay output, Next - 2 modules.
Depth: 37 mm

19535.M
Actuator with 16 A 120-230 V~ change-over relay output, Metal - 2 modules.
Depth: 36,7 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	ARKÉ	PLANA

Control and functions

20584.1
Interface for By-me commands transmission to IR receiver, with 3 m of cable, grey.
Depth: 40 mm

20584.1.B
Interface for By-me commands transmission to IR receiver, with 3 m of cable, white.
Depth: 40 mm

19584.1
Interface for By-me commands transmission to IR receiver, with 3 m of cable, grey.
Depth: 39 mm

19584.1.B
Interface for By-me commands transmission to IR receiver, with 3 m of cable, white. Depth: 39 mm

14584.1
Interface for By-me commands transmission to IR receiver, with 3 m of cable, grey.
Depth: 39 mm

14584.1.SL
Interface for By-me commands transmission to IR receiver, with 3 m of cable, Silver.
Depth: 39 mm

20584.1.N
Interface for By-me commands transmission to IR receiver, with 3 m of cable, Next.
Depth: 40 mm

19584.1.M
Interface for By-me commands transmission to IR receiver, with 3 m of cable, Metal.
Depth: 39 mm

01475
3 programmable digital inputs module for contacts without potential, 3 LED control outputs, By-me home automation, for flush mounting (backside)

01476
2 programmable digital inputs module for contacts without potential, 1 relay output for roller blind laths positioning, relay for cosφ 0,6 2 A 120-230 V~ motor, 2 LED control outputs, By-me home automation, for flush mounting (backside)

01477
2 programmable digital inputs module for contacts without potential, 1 NO 10 A 120-230 V~ 50/60 Hz light control relay output, 2 LED control outputs, By-me home automation, for flush mounting (backside)

Interfaces, actuators and dimmer

01466
Actuator with 4 (0)4-20 mA or 0-10 V proportional analogue outputs with max scalable voltage output, 120-230 V~ 50/60 Hz, 4 x 17,5 mm modules

01467
Device with 3 analogue signal inputs, 1 0-10 V or 4-20 mA input, 1 NTC sensor input, 1 brightness sensor 01530 input, 2 x 17,5 mm modules

▲ 01470.1
Pre-program 9-input and 8-output module, NO 16 A 120-230 V~ 50/60 Hz relay outputs, light control, roller blind laths positioning and local control functions, 6 x 17,5 mm modules

01471
4 16 A 120-230 V~ changeover relay outputs actuator, programmable for light control, roller blind laths positioning, fan-coil and local control, 4 x 17,5 mm modules

01850.2
Actuator with 16 A 120-230 V~ changeover relay output + push button for manual operating, 2 x 17,5 mm modules

01870
MASTER dimmer, 40-500 W, 40-300 VA, CFL 10-200 W, LED 3-200 W, 230 V~, 4 x 17,5 mm modules

01870.120
As above, 120 V~

01871
SLAVE dimmer, 40-500 W, 40-300 VA, CFL 10-200 W, LED 3-200 W, 230 V~, 4 x 17,5 mm modules

01871.120
As above, 120 V~

01975
Actuator with 1-10 Vdc 30 mA output for LED control, 120-230 V~ 2,5 A change-over relay output, 120-230 V~ 50/60 Hz, 3 x 17,5 mm modules

01976
Actuator with 1-10 Vdc 30 mA output for LED control, 12-24 V 10 A relay output, 12-24 V~ 50/60 Hz or 12-24 Vdc, 3 x 17,5 mm modules

Electronic supply units

01874
230 V~ 50 Hz for LED strip modules 12/24 Vdc, dimmable with MASTER dimmers (not for 230 V~ LED lamps and 0-10 V and 1-10 V ballast)

01874.120
As above, 120 V~

01875
230 V~ 50 Hz for LED strip modules 350/500/700 mA, dimmable with MASTER dimmers (not for 230 V~ LED lamps and 0-10 V and 1-10 V ballast)

01875.120
As above, 120 V~

01876
230 V~ 50 Hz for RGB LED modules 12/24 Vdc, dimmable with RGB and FADING-SHOW dimmers

01876.120
As above, 120 V~

01877
By-me multivoltage driver 230 V~ 50 Hz for RGB LED modules 12/24 Vdc

01877.120
As above, 120 V~

EIKON | ARKÉ | PLANA

Radiofrequency home automation with EnOcean® tecnology (868 MHz)

03955
4-button flat device with RF transmission, 868 MHz, **EnOcean®** standard, energy harvesting supply powered by built-in electrodynamic generator, to complete with 20506 or 20506.2, 19506 or 19506.2 or 14506 or 14506.2 buttons - 2 modules. Depth: 3,5 mm

01796.1
EnOcean® multifunction actuator, NO 8 A 230 V~ relay output, supply voltage 230 V~ 50/60 Hz

enocean®

20507
Frame for Eikon Chrome 2-central-module or 2-module cover plates, grey

20507.B
Frame for Eikon Chrome 2-central-module or 2-module cover plates, white

19507
Frame for Arké 2-central-module or 2-module cover plates, grey

19507.B
Frame for Arké 2-central-module or 2-module cover plates, white

20507
Frame for Plana 2-central-module or 2-module cover plates, grey

20507.B
Frame for Plana 2-central-module or 2-module cover plates, white

21507
Frame for Eikon Evo 2-module cover plates, grey

21507.B
Frame for Eikon Evo 2-module cover plates, white

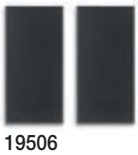
▲ **22507**
Frame for Eikon Exé 2-module cover plates, grey

▲ **22507.B**
Frame for Eikon Exé 2-module cover plates, white

20506
Pair of 1-module buttons for RF devices, customisable[1], grey

20506.B
Pair of 1-module buttons for RF devices, customisable[1], white

20506.N
Pair of 1-module buttons for RF devices, customisable[1], Next



19506
Pair of 1-module buttons for RF devices, customisable[1], grey

19506.B
Pair of 1-module buttons for RF devices, customisable[1], white

19506.M
Pair of 1-module buttons for RF devices, customisable[1], Metal

14506
Pair of 1-module buttons for RF devices, customisable[1], white

14506.SL
Pair of 1-module buttons for RF devices, customisable[1], Silver

20506.2
2-module button for RF devices, customisable[1], grey

20506.2.B
2-module button for RF devices, customisable[1], white

20506.2.N
2-module button for RF devices, customisable[1], Next

19506.2
2-module button for RF devices, customisable[1], grey

19506.2.B
2-module button for RF devices, customisable[1], white

19506.2.M
2-module button for RF devices, customisable[1], Metal

14506.2
2-module button for RF devices, customisable[1], white

14506.2.SL
2-module button for RF devices, customisable[1], Silver

[1] For the customisation of the buttons, see page 198

EIKON	ARKÉ	PLANA

Radiofrequency home automation with EnOcean® tecnology (868 MHz)

20508
EnOcean® Bus interface, grey
- 2 modules.
Depth: 26,5 mm

20508.B
EnOcean® Bus interface, white
- 2 modules.
Depth: 26,5 mm

20508.N
EnOcean® Bus interface, Next
- 2 modules.
Depth: 26,5 mm

19508
EnOcean® Bus interface, grey
- 2 modules.
Depth: 26,2 mm

19508.B
EnOcean® Bus interface, white
- 2 modules.
Depth: 26,2 mm

19508.M
EnOcean® Bus interface, Metal
- 2 modules.
Depth: 26,2 mm

14508
EnOcean® Bus interface, white
- 2 modules.
Depth: 25,5 mm

14508.SL
EnOcean® Bus interface, Silver
- 2 modules.
Depth: 25,5 mm

Sound system

20582
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, grey
- 2 modules
Depth: 37 mm

20582.B
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, white
- 2 modules
Depth: 37 mm

20582.N
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, Next
- 2 modules
Depth: 37 mm

19582
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, grey
- 2 modules
Depth: 36,7 mm

19582.B
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, white
- 2 modules
Depth: 36,7 mm

19582.M
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, Metal
- 2 modules
Depth: 36,7 mm

14582
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, white
- 2 modules
Depth: 36 mm

14582.SL
Audio input with 2 RCA connectors, automatic volume adjustment, incorporated line terminator, Silver
- 2 modules
Depth: 36 mm

20589[1]
Bluetooth® interface, storing up to 8 mobile devices, grey - 2 modules
Depth: 36 mm

20589.B[1]
Bluetooth® interface, storing up to 8 mobile devices, white - 2 modules
Depth: 36 mm

20589.N[1]
Bluetooth® interface, storing up to 8 mobile devices, Next - 2 modules
Depth: 36 mm

19589[1]
Bluetooth® interface, storing up to 8 mobile devices, grey - 2 modules
Depth: 36,7 mm

19589.B[1]
Bluetooth® interface, storing up to 8 mobile devices, white - 2 modules
Depth: 36,7 mm

19589.M[1]
Bluetooth® interface, storing up to 8 mobile devices, Metal - 2 modules
Depth: 36,7 mm

14589[1]
Bluetooth® interface, storing up to 8 mobile devices, white - 2 modules
Depth: 37 mm

14589.SL[1]
Bluetooth® interface, storing up to 8 mobile devices, Silver - 2 modules
Depth: 37 mm

20590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, grey
- 2 modules.
Depth: 36 mm

20590.B[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, white
- 2 modules.
Depth: 36 mm

20590.N[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, Next
- 2 modules.
Depth: 36 mm

19590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, grey
- 2 modules.
Depth: 36,7 mm

19590.B[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, white
- 2 modules.
Depth: 36,7 mm

19590.M[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, Metal
- 2 modules.
Depth: 36,7 mm

14590[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, white
- 2 modules.
Depth: 36 mm

14590.SL[1]
4+4 W RMS stereo amplifier, 2 ouputs for 8 Ω sound diffusers with built-in Bluetooth® wireless technology receiver, 1 LINE IN, suppy voltage 12 Vdc, Silver
- 2 modules.
Depth: 36 mm

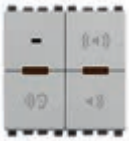
[1] The article can be ordered with Bluetooth network customisation
(see specifications on page 201)

Sound system

Microphones and tuners

20586
Microphone for selective or general call, voice activation function for monitoring children, grey - 2 modules.
Depth: 37 mm

20586.B
Microphone for selective or general call, voice activation function for monitoring children, white - 2 modules.
Depth: 37 mm



20586.N
Microphone for selective or general call, voice activation function for monitoring children, Next - 2 modules.
Depth: 37 mm

19586
Microphone for selective or general call, voice activation function for monitoring children, grey - 2 modules.
Depth: 37 mm

19586.B
Microphone for selective or general call, voice activation function for monitoring children, white - 2 modules.
Depth: 37 mm

19586.M
Microphone for selective or general call, voice activation function for monitoring children, Metal - 2 modules.
Depth: 37 mm

14586
Microphone for selective or general call, voice activation function for monitoring children, white - 2 modules.
Depth: 36 mm

14586.SL
Microphone for selective or general call, voice activation function for monitoring children, Silver - 2 modules.
Depth: 36 mm

01900
FM radio tuner with RDS, coaxial connector for external FM antenna, built-in line terminator, 2 x 17,5 mm modules

Amplifiers

01483
4-button, 1 LINE OUT output, RGB LED location in darkness with brightness control, to be completed with interchangeable 1- or 2-module half-buttons. - 2 modules
Depth: 37 mm

01484
4-button with 1 + 1 W RMS stereo amplifier, 2 x 8 Ω speaker outputs, RGB LED location in darkness with brightness control, to be completed with interchangeable 1- or 2-module half-buttons. - 2 modules
Depth: 37 mm

01901
Stereo amplifier, 2 outputs for sound diffusers 8 Ω 10+10 W, power supply 110-230 V~ 50/60 Hz, built-in line terminator, 6 x 17,5 mm modules

Socket outlets

20583
Spring connector for speaker, grey.
Depth: 19,4 mm

20583.B
Spring connector for speaker, white.
Depth: 19,4 mm

20583.N
Spring connector for speaker, Next.
Depth: 19,4 mm

19583
Spring connector for speaker, grey.
Depth: 18,9 mm

19583.B
Spring connector for speaker, white.
Depth: 18,9 mm

19583.M
Spring connector for speaker, Metal.
Depth: 18,9 mm

14583
Spring connector for speaker, white.
Depth: 18,4 mm

14583.SL
Spring connector for speaker, Silver.
Depth: 18,4 mm

2 interchangeable half-buttons - 1 module

20751.4
I/O volume symbol, grey

20751.4.B
I/O volume symbol, white

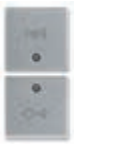
20751.4.N
I/O volume symbol, Next

19751.4
I/O volume symbol, grey

19751.4.B
I/O volume symbol, white

19751.4.M
I/O volume symbol, Metal

14751.4
I/O volume symbol, white



14751.4.SL
I/O volume symbol, Silver

20751.5
Function/track change symbol, grey

20751.5.B
Function/track change symbol, white

20751.5.N
Function/track change symbol, Next

19751.5
Function/track change symbol, grey

19751.5.B
Function/track change symbol, white

19751.5.M
Function/track change symbol, Metal

14751.5
Function/track change symbol, white

14751.5.SL
Function/track change symbol, Silver

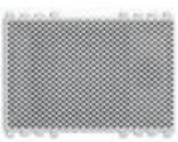
Sound system

Diffusers

21588
Passive speaker, 8 Ω
10 W, grey - 8 modules.
Depth: 48 mm

20587
Passive speaker, 8 Ω 3 W,
grey - 3 modules.
Depth: 40 mm

21588.B
Passive speaker, 8 Ω
10 W, white - 8 modules.
Depth: 48 mm



20587.B
Passive speaker, 8 Ω 3 W,
white - 3 modules.
Depth: 40 mm

21588.N
Passive speaker, 8 Ω
10 W, Next - 8 modules.
Depth: 48 mm

20587.N
Passive speaker, 8 Ω 3 W,
next - 3 modules.
Depth: 40 mm

01906
IP55 passive speaker, 8 Ω 30 W,
for hollow walls and false ceiling
installation. Depth: 70 mm

01907
Passive speaker, 8 Ω 30 W,
for hollow walls and false
ceiling installation. Depth: 68 mm

01908
Passive speaker, 8 Ω 30 W, orientable,
for surface mounting

System components

01903
Branch shunt for By-me
devices, flush mounting
(retrofit)

01904
Branch shunt for
sound system devices,
flush mounting (retrofit)

01902
Bus line/sound system
decoupler for By-me
power supply, built-in
line terminator,
2 x 17,5 mm modules

01831
Supply unit 12 Vdc
1250 mA output,
100-240 V~ 50/60 Hz,
1,5 x 17,5 mm modules

▲ 01831.1
Supply unit 12 Vdc
1250 mA output,
100-240 V~ 50/60 Hz,
1 x 17,5 mm module

01840.E.B
By-me system Bus cable for sound
system, 2x0,50 mm^2, with LSZH
sheath, CPR Eca class, suitable
for I category cables (U0 = 400 V),
blue - 100 m

01839
Removable 2 screw
terminals, for Bus
system

EIKON	ARKÉ	PLANA

Temperature control

02951

Touch screen thermostat (heating and air-conditioning), 2 and 4 pipe system management, 3-speed and proportional fan-coil control, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for for NTC sensor, can be interfaced with actuator with proportional analogue outputs 01466 to make a class V modulating room thermostat (contribution 3%), black - 2 modules.
Depth: 38,5 mm

02951.B

Touch screen thermostat (heating and air-conditioning), 2 and 4 pipe system management, 3-speed and proportional fan-coil control, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for for NTC sensor, can be interfaced with actuator with proportional analogue outputs 01466 to make a class V modulating room thermostat (contribution 3%), white - 2 modules.
Depth: 38,5 mm

02951.BN

Touch screen thermostat (heating and air-conditioning), 2 and 4 pipe system management, 3-speed and proportional fan-coil control, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for for NTC sensor, can be interfaced with actuator with proportional analogue outputs 01466 to make a class V modulating room thermostat (contribution 3%), neutral - 2 modules.
Depth: 38,5 mm

Probes and sensors

20538

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, grey.
Depth: 40 mm

20538.B

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, white.
Depth: 40 mm

20538.N

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, Next.
Depth: 40 mm

19538

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, grey.
Depth: 40 mm

19538.B

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, white.
Depth: 40 mm

19538.M

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, Metal.
Depth: 40 mm

14538

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, white.
Depth: 39 mm

14538.SL

Temperature probe for ON/OFF, PWM, PID and dew point control, for 2- and 4-pipe systems, 3-speed/proportional fan coil control, 1 input for NTC sensor, Silver.
Depth: 39 mm

20432

Electronic temperature sensor, 1 output, grey.
Depth: 24,4 mm

20432.B

Electronic temperature sensor, 1 output, white.
Depth: 24,4 mm

20432.N

Electronic temperature sensor, 1 output, Next.
Depth: 24,4 mm

19432

Electronic temperature sensor, 1 output, grey.
Depth: 24,4 mm

19432.B

Electronic temperature sensor, 1 output, white.
Depth: 24,4 mm

19432.M

Electronic temperature sensor, 1 output, Metal.
Depth: 24,4 mm

14432

Electronic temperature sensor, 1 output, white.
Depth: 23,4 mm

14432.SL

Electronic temperature sensor, 1 output, Silver.
Depth: 23,4 mm

20433

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, grey - 2 modules.
Depth: 37 mm

20433.B

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, white - 2 modules.
Depth: 37 mm

20433.N

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, Next - 2 modules.
Depth: 37 mm

19433

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, grey - 2 modules.
Depth: 37 mm

19433.B

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, white - 2 modules.
Depth: 37 mm

19433.M

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, Metal - 2 modules.
Depth: 37 mm

14433

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, white - 2 modules.
Depth: 36 mm

14433.SL

Humidity sensor, 1 0-10 V or 4-20 mA output, 12/24V, Silver - 2 modules.
Depth: 36 mm

EIKON | ARKÉ | PLANA

Temperature control

02965.1
Wired temperature sensor, NTC 10 kΩ, cable length 3 m

01546
Weather station, KNX standard, power supply 12-32 Vdc or 12-24 Vac

Actuators

01465
Climate control device for heating systems, power supply 120-230 V~ 50/60 Hz, 3 inputs for PT100, PT1000 and NTC probes, 1 mixer valve control output, 1 0-10 V or (0) 4-20 mA output, 1 16 A 230 V~ change-over relay output, 6 x 17,5 mm modules

Energy management

20537
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, grey - 2 modules. Depth: 37 mm

20537.B
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, white - 2 modules. Depth: 37 mm

20537.N
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, Next - 2 modules. Depth: 37 mm

19537
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, grey - 2 modules. Depth: 36,7 mm

19537.B
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, white - 2 modules. Depth: 36,7 mm

19537.M
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, Metal - 2 modules. Depth: 36,7 mm

14537
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, white - 2 modules. Depth: 36 mm

14537.SL
Actuator with relay output 16 A 120-230 V~ 50/60 Hz with incorporated current sensor, Silver - 2 modules. Depth: 36 mm

01451
Energy meter with incorporated current sensor, measurable powers up to 3680 W, flush mounting (retrofit)

01452
Pulse counter interface for measuring data from devices fitted with pulse outputs, such as electricity, water and gas meters, flush mounting (retrofit)

01457
Toroidal current sensor for load control and power measurement, hole diameter 7,5 mm, cable length 40 cm

01458
Toroidal current sensor for load control and power measurement, hole diameter 19 mm, cable length 40 cm

01459
Toroidal differential current sensor for power measurement, hole diameter 9 mm, cable length 40 cm

01450
Energy meter, 3 x inputs toroidal sensor, 25 W-100 kW, 120-230 V 50/60 Hz, 230/400 V 50/60 Hz, 1 x 17,5 mm modules.
Supplied with toroidal current sensor 01457

01455
Load control module, 3 x inputs toroidal sensor, 25 W-100 kW, 120-230 V 50/60 Hz, 230/400 V 50/60 Hz, 1 x 17,5 mm modules.
Supplied with toroidal current sensor 01457

01456
Actuator, 16 A 120-230 V~ 50/60 Hz relay output for toroidal differential current sensor, 1 x 17,5 mm modules.
Supplied without toroidal differential current sensor.

Video door entry

19558
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, grey. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

19558.D
As above, with function for hearing aid wearers

19558.B
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, white. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

19558.D.B
As above, with function for hearing aid wearers

19558.M
Due Fili Plus video entryphone with 3,5" display and built-in mounting frame for installation in 8-module boxes, Metal. To be completed with Arké or Plana cover plates. Depth: 25,5 mm

01963
Due Fili Plus video door entry system module

01965
By-me module for Due Fili Plus video entryphone

Speakerphones and call buttons

20557
Speakerphone for Due Fili system with door opening and stair lights switching on functions, grey - 3 modules
Depth: 37 mm

20557.B
Speakerphone for Due Fili system with door opening and stair lights switching on functions,white - 3 modules
Depth: 37 mm

20557.N
Speakerphone for Due Fili system with door opening and stair lights switching on functions, Next - 3 modules
Depth: 37 mm

19557
Speakerphone for Due Fili system with door opening and stair lights switching on functions, grey - 3 modules
Depth: 37 mm

19557.M
Speakerphone for Due Fili system with door opening and stair lights switching on functions, Metal - 3 modules
Depth: 37 mm

19557.B
Speakerphone for Due Fili system with door opening and stair lights switching on functions, white - 3 modules
Depth: 37 mm

14557
Speakerphone for Due Fili system with door opening and stair lights switching on functions, white - 3 modules
Depth: 36 mm

14557.SL
Speakerphone for Due Fili system with door opening and stair lights switching on functions, Silver - 3 modules
Depth: 36 mm

20577
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, grey - 3 modules
Depth: 37 mm

20577.B
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, white - 3 modules
Depth: 37 mm

20577.N
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, Next - 3 modules
Depth: 37 mm

19577
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, grey - 3 modules
Depth: 37 mm

19577.M
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, Metal - 3 modules
Depth: 37 mm

19577.B
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, white - 3 modules
Depth: 37 mm

14577
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, white - 3 modules
Depth: 36 mm

14577.SL
Due Fili call button for the landing with luminous name-plate, built-in microphone and speaker, Silver - 3 modules
Depth: 36 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON

PLANA

Video door entry

Cameras and lights

20560
Inner color camera with vertical adjustment, grey.
Depth: 37 mm

20560.B
Inner color camera with vertical adjustment, white.
Depth: 37 mm

20560.N
Inner color camera with vertical adjustment, Next.
Depth: 37 mm

14560
Inner color camera with vertical adjustment, white.
Depth: 36 mm

14560.SL
Inner color camera with vertical adjustment, Silver.
Depth: 36 mm

20565
Inner color camera with horizontal and vertical adjustment, built-in microphone, grey - 2 modules
Depth: 26,5 mm

20565.B
Inner color camera with horizontal and vertical adjustment, built-in microphone, white - 2 modules
Depth: 26,5 mm

20565.N
Inner color camera with horizontal and vertical adjustment, built-in microphone, Next - 2 modules
Depth: 26,5 mm

14565
Inner color camera with horizontal and vertical adjustment, built-in microphone, white - 2 modules
Depth: 25,5 mm

14565.SL
Inner color camera with horizontal and vertical adjustment, built-in microphone, Silver - 2 modules
Depth: 25,5 mm

20570
Inner light with high-efficiency LED for color video camera, 12-24 Vdc (SELV), grey.
Depth: 37 mm

20570.B
Inner light with high-efficiency LED for color video camera, 12-24 Vdc (SELV), white.
Depth: 37 mm

20570.N
Inner light with high-efficiency LED for color video camera, 12-24 Vdc (SELV), Next.
Depth: 37 mm

14570
Inner light with high-efficiency LED for color video camera, 12-24 Vdc (SELV), white.
Depth: 36 mm

14570.SL
Inner light with high-efficiency LED for color video camera, 12-24 Vdc (SELV), Silver.
Depth: 36 mm

Cables

692I
Interfaccia per PC con connettore RS232 e software 69CD per la programmazione base e avanzata degli apparecchi Due Fili, per appartamenti con più di 4 videocitofoni o citofoni su singolo appartamento

692I/U
Interfaccia per PC con connettore USB e software 69CD per la programmazione base ed avanzata degli apparecchi Due Fili, per appartamenti con più di 4 videocitofoni o citofoni su singolo appartamento

732H.E.100
Due Fili Plus cable for internal laying, 2x1 mm² twisted conductors, PVC sheath, CPR Eca class, operating temperature -25/+70 °C, not suitable for running through underground channels, suitable for I category cables (U0 = 400 V), blue - 100 m

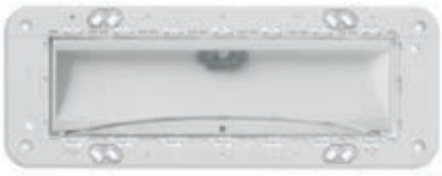
732H.E.500
As above, 500 m bundle

732I.C.100
Due Fili Plus cable for internal/external laying, 2x1 mm² twisted conductors, LSZH sheath and insulation, Cca - s1b, d1, a1 class, operating temperature -25/+70°C, insulation degree 600/1000 V, suitable for laying underground in dry ducting or channels with efficient drainage (max. 24 hrs wet), not suitable for laying directly underground, suitable for I category cables (U0 = 400 V) purple - 100 m

732I.E.100
Due Fili Plus cable for internal/external laying, 2x1 mm² twisted conductors, LSZH sheath and insulation, CPR Eca class, operating temperature -25/+70°C, insulation degree 600/1000 V, suitable for laying underground in dry ducting or channels with efficient drainage (max. 24 hrs wet), not suitable for laying directly underground, suitable for I category cables (U0 = 400 V), green - 100 m

732I.E.500
As above, 500 m bundle

Emergency lighting devices



02661
With high-efficiency LED, 230 V~ 50/60 Hz, rechargeable Ni-Cd battery and built-in 6/7-module frame.
To complete with Eikon Evo, Eikon Chrome or Eikon Total look cover plate.
Depth: 44,7 mm

02660.1
With high-efficiency LED, 230 V~ 50/60 Hz, rechargeable Ni-Cd battery and built-in 6/7-module frame.
To complete with Arké or Plana cover plate.
Depth: 43 mm

00913
Ni-Cd 4,8 V 800 mAh spare rechargeable battery for 02661

Gas detectors

20420
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 37 mm.
Fornito con bomboletta 01899 per la verifica dell'installazione

19420
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 36,5 mm.
Fornito con bomboletta 01899 per la verifica dell'installazione

16592
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 42,5 mm.
Fornito con bomboletta 01899 per la verifica dell'installazione

14420
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 36 mm.
Fornito con bomboletta 01899 per la verifica dell'installazione

20420.B
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 37 mm.
Provided with 01899 cylinder for testing the installation

19420.B
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 36,5 mm.
Provided with 01899 cylinder for testing the installation

16592.B
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 42,5 mm.
Provided with 01899 cylinder for testing the installation

14420.SL
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Silver - 3 modules. Depth: 36 mm.
Provided with 01899 cylinder for testing the installation

20420.N
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Next - 3 modules. Depth: 37 mm.
Provided with 01899 cylinder for testing the installation

19420.M
Electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Metal - 3 modules. Depth: 36,5 mm.
Provided with 01899 cylinder for testing the installation

EIKON	ARKÉ	IDEA	PLANA

Gas detectors

20421
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 37 mm.
Provided with 01899 cylinder for testing the installation

20421.B
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 37 mm.
Provided with 01899 cylinder for testing the installation

20421.N
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Next - 3 modules. Depth: 37 mm.
Provided with 01899 cylinder for testing the installation

19421
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 36,5 mm.
Provided with 01899 cylinder for testing the installation

19421.B
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 36,5 mm.
Provided with 01899 cylinder for testing the installation

19421.M
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Metal - 3 modules. Depth: 36,5 mm.
Provided with 01899 cylinder for testing the installation

16591
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, grey - 3 modules. Depth: 42,5 mm.
Provided with 01899 cylinder for testing the installation

16591.B
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 42,5 mm.
Provided with 01899 cylinder for testing the installation

14421
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, white - 3 modules. Depth: 36 mm.
Provided with 01899 cylinder for testing the installation

14421.SL
Electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, 230 V~ 50-60 Hz, Silver - 3 modules. Depth: 36 mm.
Provided with 01899 cylinder for testing the installation

01899
Gas test cylinder for testing Gas Stop Metano and GPL detectors

BY-ALARM. PROFESSIONAL, EASY TO INSTALL AND HIGHLY FLEXIBLE.

Thanks to By-alarm, protecting settings against break-ins and developing a solution that mirrors the real need for protection of everyone is easy and straightforward. Available in the stand-alone version, and easily expandable with a vast range of devices, it can also be integrated with the By-me home automation system. Its high quality is assured by CEI EN 50131 certification (grade 2).

Certified quality.

Fruit of the continuous investment in R&D, By-alarm stands out for it very high technological quality that has allowed us to obtain Italian certification IMQ - Security systems, confirming its total reliability.

CERTIFIED SAFETY

STANDARD CEI EN 50131 grade 2

MADE in ITALY

Security is extended thanks to an extensive range of solutions.

Various solutions can be chosen to expand By-alarm: from those that can be installed with a RS485 Bus cable to those based on radio frequency technology, which allows for the coverage of zones where building work cannot be carried out, right the way up to the most advanced, which allow for total integration with the By-me home automation system.

Aesthetic coordination to suit the style of any building.

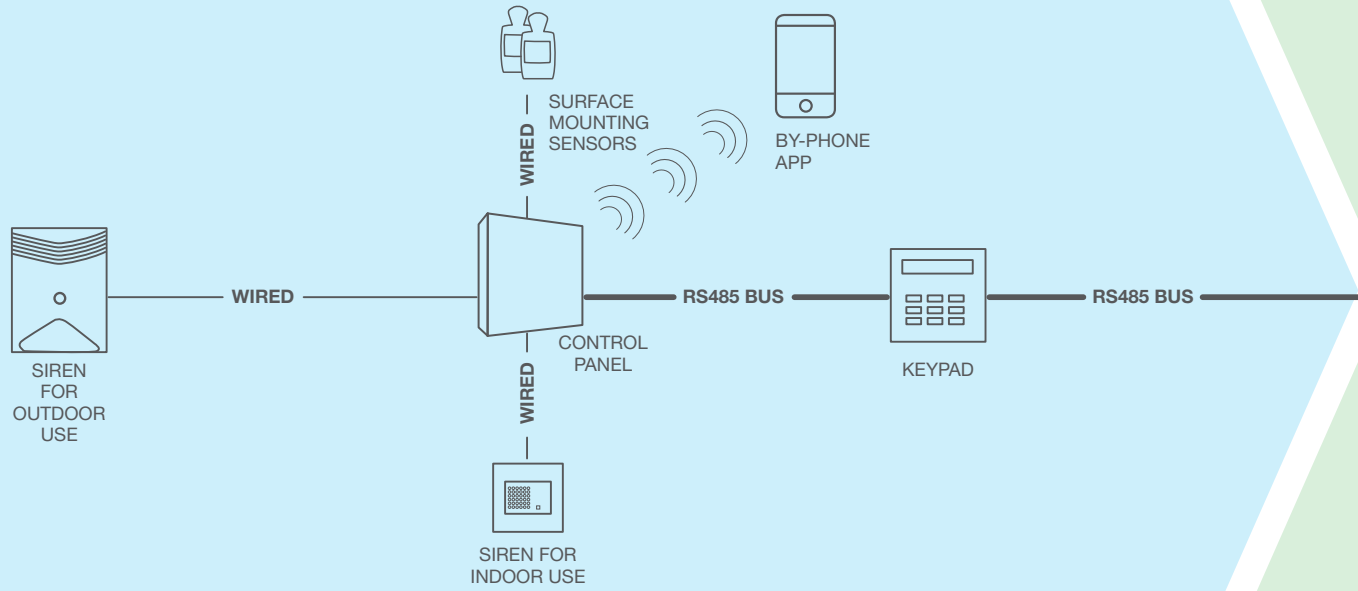
All the By-alarm system devices, such as sensors, internal sirens and connectors, have been designed to offer the maximum in terms of aesthetics and functionality, ensuring a stylistic approach that is the perfect balance between continuity and attention to detail. In addition, all flush mounting devices are available for Eikon, Arké, Idea (using mounting frame 16723) and Plana series.
Numerous combinations in terms of designs, materials and colours.

EIKON ARKÉ
PLANA idea

A stand-alone solution, simple and connected.

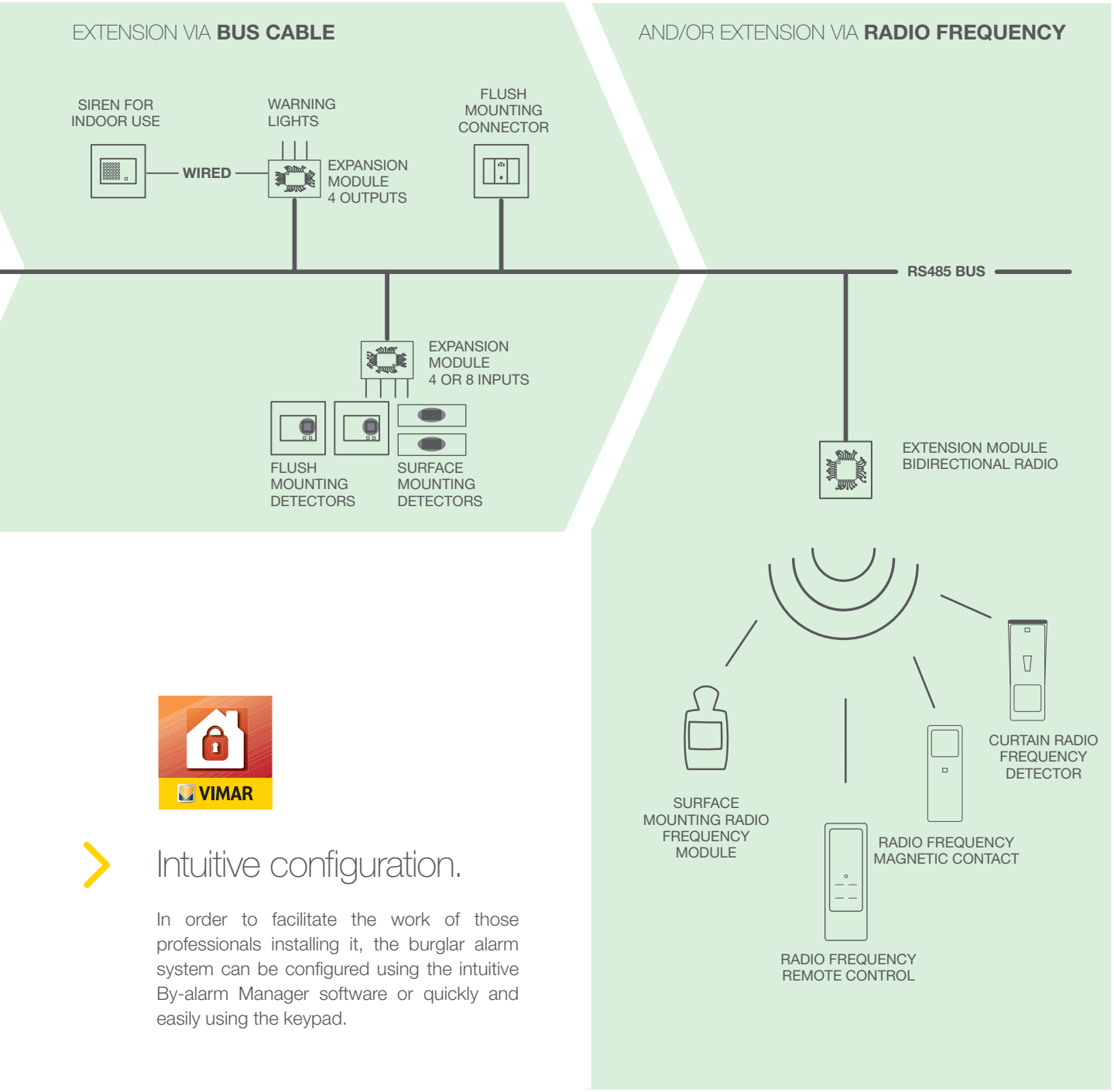
A simple but high-performance solution able to effectively identify and signal any breaking and entering or undesirable presence. It is very easy to install using a wired connection and RS485 Bus cable and can be remotely controlled via GSM using a smartphone and the free By-phone app.

WIRED CONNECTION AND **BUS CABLE**



Expandable according to requirements with a Bus cable and/or in radio frequency.

The stand-alone solution can be extended to other areas of the building depending on installation needs.
Simply extend the RS485 Bus cable and/or connect it to a bidirectional radio extension module that allows for the radio frequency control, on a highly reliable protocol, of a series of specially prepared alarm devices. In this way it is possible to alarm other zones without carrying out building work.



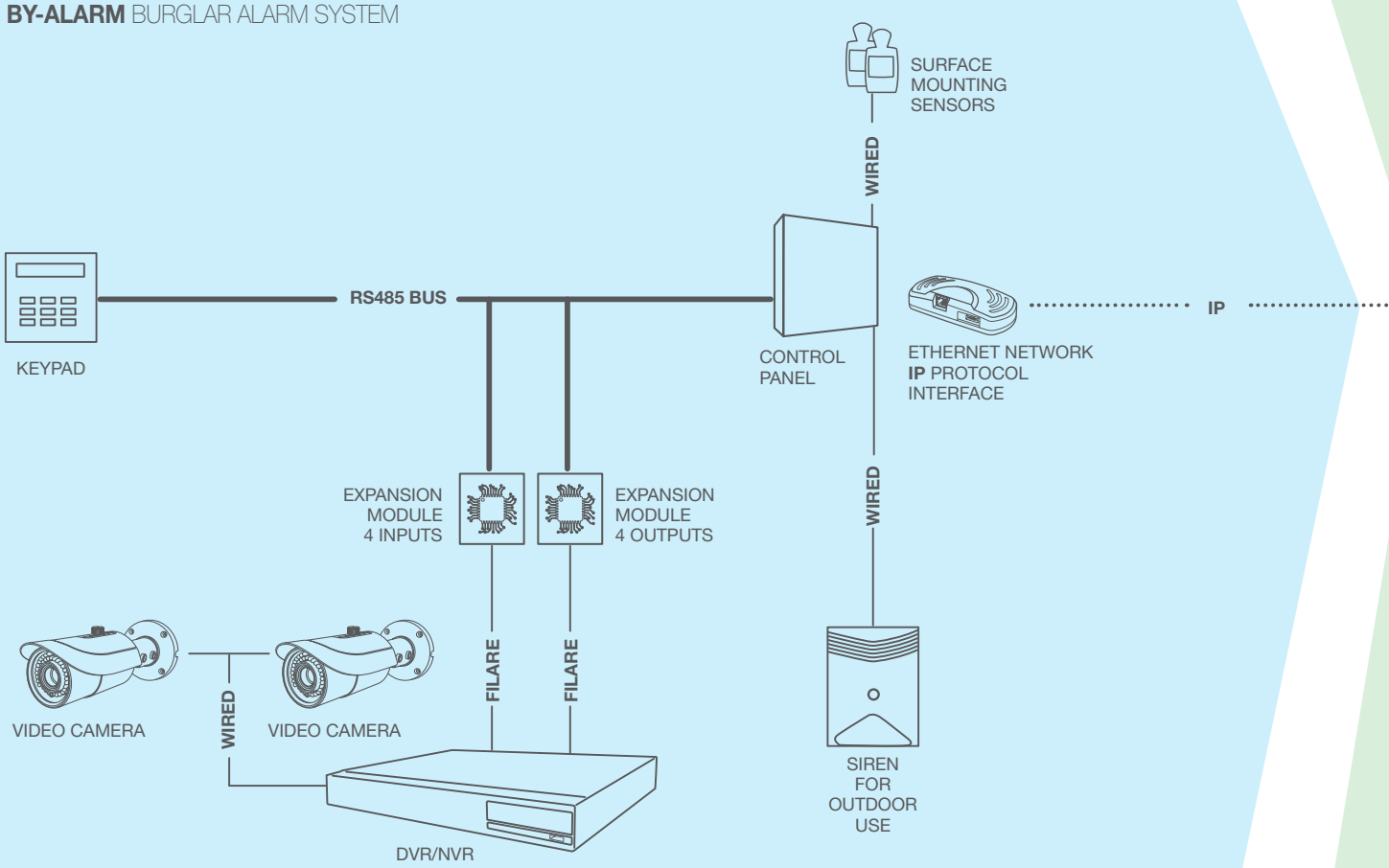
Intuitive configuration.

In order to facilitate the work of those professionals installing it, the burglar alarm system can be configured using the intuitive By-alarm Manager software or quickly and easily using the keypad.

An advanced solution, easily linked to a CCTV system.

By-alarm can be easily and quickly connected to a video surveillance system. Just use a RS485 Bus cable to connect the expansion modules and then, using a wired connection, connect the DVR/NVR that manages video cameras of any Elvox TVCC technology.

BY-ALARM BURGLAR ALARM SYSTEM

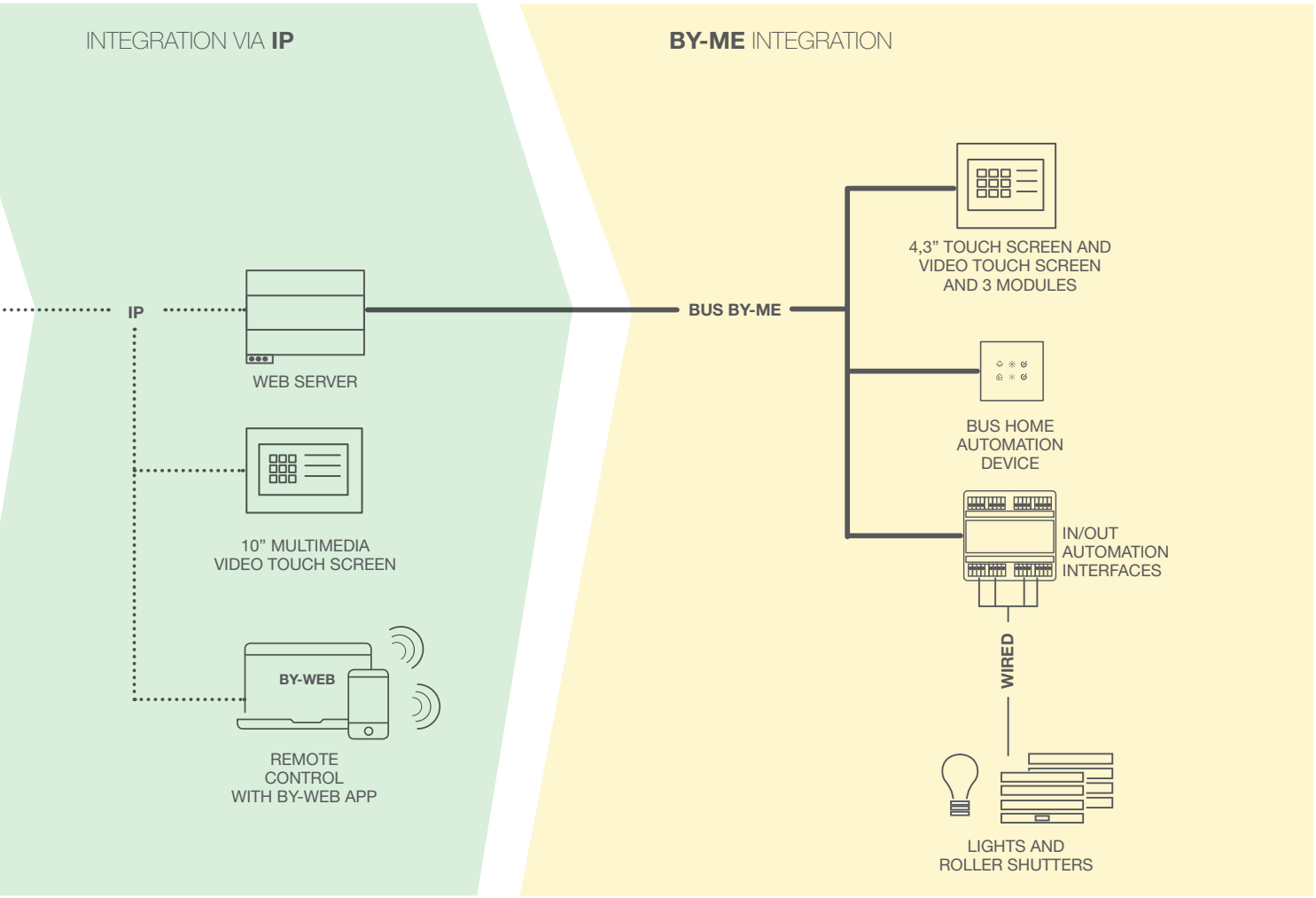


Free By-phone app.

Control the lights, roller shutters, scenarios and alarm system in your home using simple text messages.

An intelligent solution, it can be integrated with the By-me home automation system via an IP connection.

It can also be fully integrated with the By-me home automation system by installing an IP module that ensures a secure connection. This gives life to a complete system, the functions of which can be controlled using the touchscreen or remotely, using a smartphone or tablet.



WWW VIMAR

VIEW IoT smart life

Free By-web app.

Allows for complete management of the whole system, monitored and managed via video touchscreen, PC, smartphone or tablet.

By-alarm: burglar alarm system

General features

By-alarm is the Vimar burglar alarm system designed to protect the home against intrusion from the outside. The system manages up to 24 or 64 zones divided in 8 areas set with 3 different profiles (ON = total; INT/PAR = 2 partializations), is installed as a stand-alone system with great ease via a wired connection and RS485 Bus cable and can also be extended in radio frequency with a wide range of flush and surface mounting devices.
Simple and quick to install, its quality is guaranteed by **CEI EN 50131 (grade 2) certification** and the Italian certificate **IMQ – SISTEMI di sicurezza** (except for 01729 RF interface and 01712 Ethernet interface).
In addition, By-alarm can be integrated with the By-me home automation system via a protected IP connection and with a wide range of NVR/DVR making up the Elvox TVCC offer.

Advantages

By-alarm is a **professional** system offering excellent performance, guaranteed by the reliability of its Made in Italy production, certified according to Standard CEI EN 50131 (grade 2) and IMQ, and allowing:

- **simple configuration using a PC and keypad**: with the utmost versatility, the system can be configured quickly and intuitively from a PC using the dedicated **By-alarm Manager** software or directly via the digital keypad art. 01705;
- **expandability at any time**: using a Bus cable and/or with radio frequency on a highly reliable innovative protocol, based on Spread Spectrum technology and characterised by low consumption and high levels of immunity to disturbances and interference;
- **remote management**: using a smartphone and tablet and secure GSM and IP connections. The system can be linked to surveillance bodies using SIA and CONTACT-ID protocols;
- **integration with the By-me home automation system**: using a protected IP connection and the web server, the system can be controlled via the touch screen or remotely/ on-site with a smartphone or tablet by using the By-web app.
- **aesthetic coordination**: By-alarm flush mounting devices are available for the Eikon, Arké, Idea (using mounting frame 16723) and Plana series.

Standard EN-50131

- Operation prescribed under EN-50131

The system's operation according to the EN-50131 standards foresees some variations compared to the usual operation of the system:

- in the event of exceeding access attempts (3 incorrect codes on the same keypad) the restriction time goes from 60 to 90 seconds;
- the re-entry time, in the event of timed zones, cannot exceed 45 seconds;
- the delay in notifying no mains should not exceed 60 minutes;
- introduced delay of alarm signal when this has been generated during the period of switching off; during this delay, only one signalling device is active (e.g.: indoor siren); the delay lasts 30 seconds and only at the end of the delay are the telephone sections activated (PSTN and/or GSM): if the system is switched off before the delay period expires, no telephone signal is sent;
- when the system is switched off and in the event of a Tamper alarm, Relay 2 is not activated, even if it is programmed;
- all the signals usually found on the keypad (battery status, ON/OFF status, faults in the telephone line, gsm or power supply etc.) are blanked and replaced by generic wording: "consult notices". This information is then made available on the user menu after accessing
- the number of alarm cycles on the same zone before auto switch-off must be between 3 and 10.

- Default parameters

if the EN-50131 parameter is on, the default carried out by the control unit foresees the following additional settings:

- zone 6: zone type with sensor fault
- zone 7: zone type with burglar alarm fault
- zone 8: zone type with siren fault
- the "store masking alarm" parameter is set to yes

Changing this parameter renders the compliance of all the programmed zones with triple balancing null and void.

- User management

If the EN-50131 parameter is on, the default carried out by the control unit foresees the following limitations:

- the user cannot change the telephone numbers
- the user cannot change the figures of other users' codes
- the user must enter their own code before the installer can gain access; the installer has 10 minutes to carry out their access
- switching on the system with open zones is not permitted; it can be forced by the user (so access to the user menu is required) and the forcing will be recorded in the system log together with the switch-off of the zone that caused the locking upon switch-on
- the functions of "rapid switch-on" are deactivated even if programmed.

System diagram

The By-alarm system is composed of a 24 zone (art. 01700) or 64 zone (art. 01703) control panel, to which the wired sensors and sirens for indoor and outdoor use are connected; the keypad, flush mounting connectors, input/output modules and interface in radio frequency are connected to the RS485 Bus cable coming from the control panel. The input expansion modules are connected to the flush and/or surface mounting detectors and wired sensors.

The **system is star wired** to the control panel that, for the wired inputs, acts as a star centre.

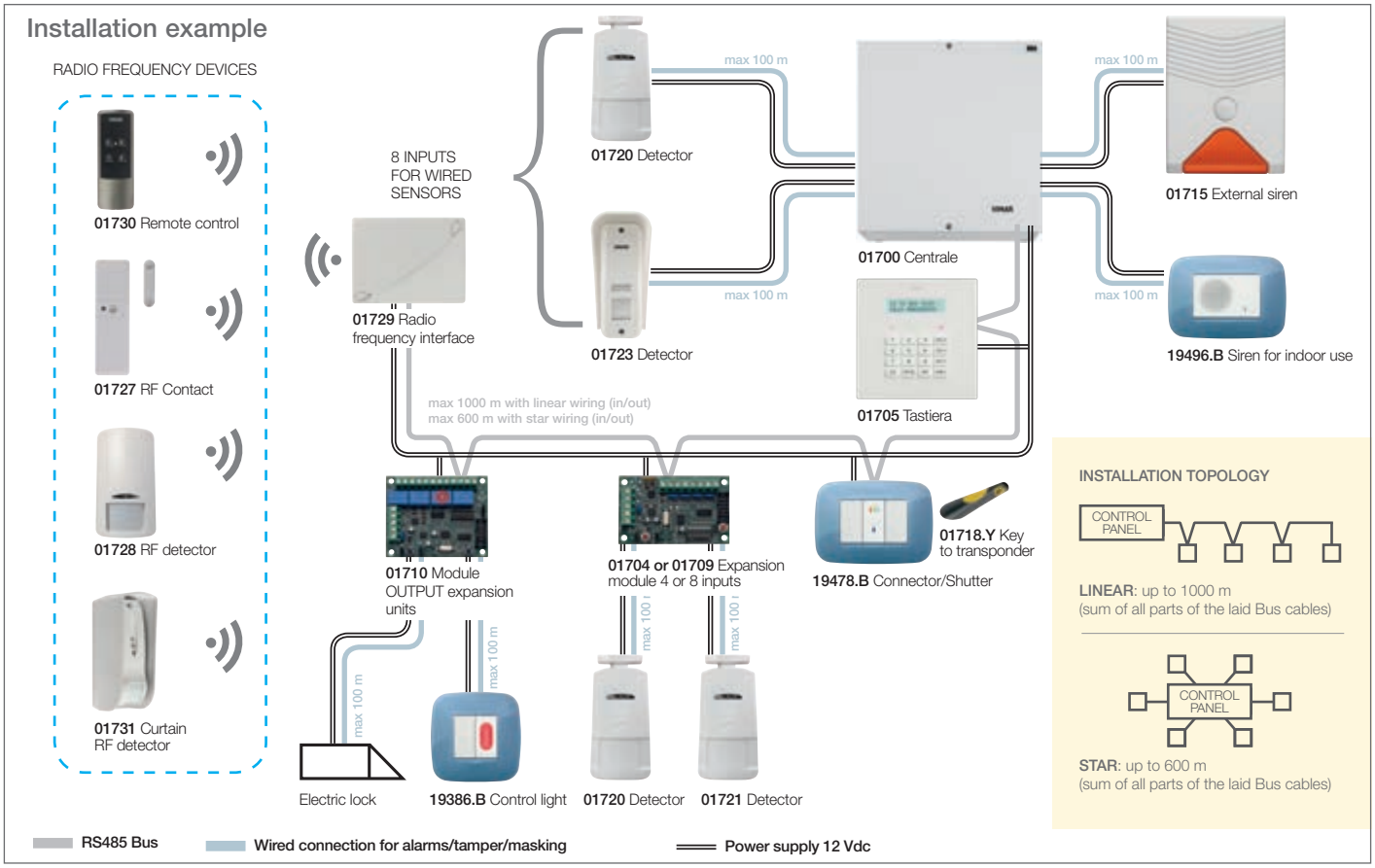
The **control panel** is equipped with:

- 8 wired inputs (zones 1-8) to directly connect the sensors and/or magnetic contacts.
  The inputs can be expanded up to 24 or 64 using expansion modules 01709 and 01729;
- one RS485 Bus for control panel 01700 and two RS485 Bus for control panel 01703 to which you can connect:
  - keypad (art. 01705);
  - 4-input expansion module (art. 01709);
  - 4-output expansion module (art. 01710);
  - Bus insulator/repeater (art. 01711);
  - flush mounting connector (art. 20478,19478, 14478);
  - interface in radio frequency (art. 01729);
- connection interfaces to install additional modules:
  - GSM Dual Band transmitter/receiver module (art. 01706);
  - PSTN communicator (art. 01708);
  - voice synthesis module (art. 01713.EN);
  - interface to Ethernet network (01712).

The control panel is equipped with two relays:

- **Relay 1** is typically used to control the self-powered siren for outdoor use and, where present, the siren for indoor use.
- **Relay 2** can be freely programmed depending on the particular case. It is usually associated with the system connection/disconnection status.

Configuration of the control panel is carried out using the keypad (art. 01705) or with the **By-alarm Manager software**.



By-alarm: burglar alarm system

System logic

The zones to be monitored must be defined according to determined areas for complete, secure coverage.
The **area** is a collection of system zones and the control panel can managed up to 4 or 8 different areas. Within each area there are **3 connection modes** (shutterings): **ON**, **INT** and **PAR**.
The system allows a given area to be connected using either the ON, INT or PAR mode; once an area is connected using one of these modes, it can only be disconnected.
For example, with a system composed of zones with external sensors (eg. Volumetric garden sensors), zones with perimetral sensors (eg. Window/blind contacts) and zones with internal volumetric sensors (eg. Dual technology sensors), a single area is defined with the three connection modes:

- **ON** = activation of all zones (**total integration**);
- **INT** = activation of zones with external and perimetral sensors;
- ***PAR*** = activation of zones with external and perimetral sensor and activation of volumetric sensors in a determined zone.

Example: when you exit the home, you set the area to the ON mode (total connection), when you are home and want to protect the outside area you set the area to the INT mode (external and perimetral sensors) and at night you set the PAR mode so that you can move freely around the night zone while the external, perimetral and volumetric sensors in the day zone are all activated. In each case, when the area is connected using any mode, it can only be disconnected.

User management: each user is recognised by the system through a 4 to 6 figure PIN set during the installation phase. You can accurately define the operations that can be carried out by each user (for example connection/disconnection ON/INT/PAR) and the areas in which actions can be performed. A zone can belong to more than one area. The possibility to create several areas, by defining the integration method (flexible with respect to the zones) and the timely management of user rights, makes for an extremely flexible system.
Several areas can in fact be used to:

- manage parts of the system separately using one single control panel; you can configure 2 areas with different zones and define the users who can control any given area;
- increase the connection modes: more than one area can be defined with the same zones (or zone subsets) and with different connection modes.

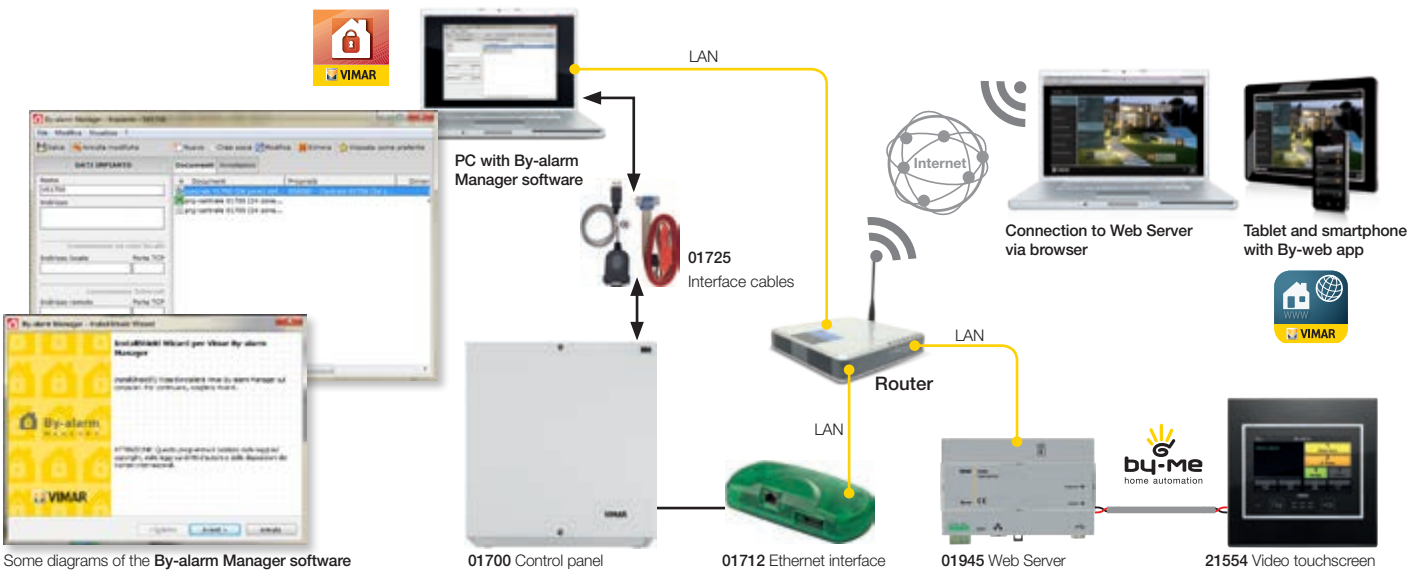
Interfacing with the By-me system

The By-alarm intrusion detection alarm system can be integrated with the By-me home automation system, thanks to communication between the intrusion detection control panel (art. 01700) and the Web Server (art. 01945 o 01946) via the Ethernet network interface (art. 01712) that used an extremely secure encrypted communication protocol.
The Web Server also acts as a gateway to the By-me system and allows the installer to access the system remotely via a secure communications channel, using the **By-alarm Manager software** (remote connection with PC only via the Web Server, otherwise you must use the standard interface art. 01725).
The **integration functions** between the two systems are:

- control and management of the By-alarm system via the Web Server (art. 01945 e 01946), touch screen (21511.1, 21554, 21553.2) and home automation module (art. 01965) of the Arké video entry phone (art. 19558), to see the system status (connection/disconnection of the areas based on the rights of the user PIN entered and see events/alarms, etc.);
- light control: using the dual technology sensors, you can control the By-me light sets when the relative zones are disconnected (configuration on Web Server);
- use of window sensors to send the stand-by command to the By-me thermostats (configuration on Web Server).
- activation of a By-me scenario on the identification of an event (connection, disconnection, alarms, etc.) in the burglar alarm system (configuration on Web Server).
- use of the By-me logic unit (art. 01468) to create logic programs linked to the status of areas (total or partial connection, alarm).

On-site and remote maintenance

Connection to the Web Server allows for maintenance operations to be carried out both on-site and remotely using the **By-alarm Manager** software that can be downloaded free of charge from the site (www.vimar.com). This operation must be activated by the user via the Web Server menu in order for the installer to maintain full control over system programming/maintenance.



Some diagrams of the **By-alarm Manager software**

01700 Control panel

01712 Ethernet interface

01945 Web Server

21554 Video touchscreen

By-alarm: burglar alarm system

By-phone and By-web Apps

Vimar's By-phone and By-web software for smartphones and tablets is designed to remote manage the majority of functions in the By-me home automation system, including the By-alarm burglar alarm system.

- Simple and immediate communication.
  With the Vimar software, remote communication with your home is simple and immediate. By using a set of attractive icons that are easy to understand, you can control many of your system functions from your smartphone. For each function you have different options, including: activate, deactivate, status, etc. That way you can always keep abreast of the situation at home and change it as you like.
- Top level security.
  When you are using the burglar alarm system, a user code protects your home, just as for all the operations requiring high security standards.
- An extraordinary freedom of choice. For your first home and your holiday home
  Freedom is absolute with the Vimar By-phone software. Language, display setup, associated sound effects: everything can be customised to streamline your day-to-day usage. More than one GSM communicator can moreover be associated with the same mobile phone.
- Quick downloading at no charge.
  Use your smartphone or tablet to go to the website: www.vimar.com, click on Download, enter mobile App, select Vimar By-phone or By-web, or on Apple Store, Google Play and Microsoft Store (for By-phone only).

By-web

By-phone

Additional functions on the GSM communicator

The GSM communicator art. **01706** has been supplemented with additional functions which can be managed using the By-phone App or the By-alarm Manager software. The new functions are available for By-alarm control units with firmware version 1.03 and upwards; By-alarm Manager software version 1.03 and upwards; By-phone App version 2.4 for Android, 2.3 for iOS, 2.2.4.0 for Windows Phone.

The new functions are designed to:
- automatically request a control sent confirmation text message;
- switch on/switch off/find out the status of all the areas with a single text message;
- enter the PIN only upon entry on the communicator 01706 ("protected access" parameter = OFF);
- control the By-alarm system outputs.

In addition, the control unit has been supplemented with the possibility of pairing an emergency call with a remote control button.

By-alarm: burglar alarm system

System components

Control panel: available as a 24 or 64 zone version, ready for connection to a digital telephone dialler (art. 01708), to connect the voice synthesis module (art. 01713.EN) and GSM module (art. 01706).

Keypad: with backlit display (art. 01705) allowing the user to communicate easily and directly with regard to all management functions and system configuration.

Siren: For outdoor use or surface mounting (art. 01715) or flush mounting coordinated with the Eikon, Arké and Plana series (art. 20496, 19496, 14496).

Additional power supply (art. 01717): to power system devices, it contributes if there is a lack of network power, allowing the system to run autonomously for 12 hrs if it has an internal battery; it is the same size as the control panel and is surface mounting.

Extension cord (01736): for By-alarm GSM Dual Band communicator aerial 01706, 10 m long.

Modules: expansion modules can be installed in the control panel or in the tear-proof surface mounting box (art. 01714), and are of type:

- **GSM Dual Band GSM/GPRS 900/1800 MHz transmitter/ receiver:** (art. 01706) automatically sends all communications regarding alarms, malfunctions or anomalies identified by the control panel to any phone number via the GSM network.
- **PSTN communicator:** (art. 01708) allows you to send any alarm or anomaly communication over the phone line. It can be programmed directly via the keypad or through the phone line with an interactive connection.
- **voice synthesis:** (art. 01713.EN) for the automatic sending of communications, alarms, malfunctions or anomalies to any phone number via pre-recorded messages already entered in the control panel.

It allows for the control panel to be consulted via telephone, in order to see the status of the lines and alarms, switch on/off the control panel (if activated), exclude or reconnect zones, control and modify the phone numbers set, activate/ deactivate the active outputs and activate the main controls.

- **Expansion to 4** (art. 01709) and **8** (art. 01704) **configurable inputs** for contact without potential, wired for blinds and passive detectors of non-piezoelectric shock.
- **Expansion to 4 outputs** that can be configured in the ways foreseen by the control panel to which it is connected (art. 01710).

Interface to the Ethernet network (art. 01712): allows for the control panel (01700, 01703) to be connected to the Ethernet network with a TCP/IP protocol **only in combination with the Vimar Web Server** (art. 01945, 01946).
The control panels, located on the local or geographic network, are thus managed by the **By-alarm Manager software** for all diagnostic and maintenance operations.

Insulated interface for signal regeneration (art. 01711): regenerates the Bus signal over 1000 m with linear wiring and over 600 m with star wiring, and galvanically insulates two RS485 Bus sections of the By-alarm system.
Used for installations that use underground Bus cable sections outside the building or those with ground loop problems.

Interfaces and cables (art. 01725): Via the RS232-USB converter, they allow for direct connection of control panel (art. 01700, 01703) to the PC USB port for a direct, interactive connection to the intrusion detection alarm system and for **complete configuration using the By-alarm Manager service**.

Surface mounting control panel


Siren for outdoor use

Keypad

By-alarm: burglar alarm system

Flush mounting devices

Flush mounting devices in the By-alarm system are coordinated with the Eikon, Arké and Plana series:

Connector/splitter (art. 20478, 19478, 14478): Activates/deactivates the system (completely or the partially associated zones) after recognising the code issued by the **transponder keys** (art. 01718.G and art. 01718.Y), that do not require maintenance or batteries and that have a unique code, individual to each key.

Motion detector (art. 20479, 19479, 14479): incorporates a microwave sensor and an infrared sensor and is able to signal people or animals passing through its area of coverage. The dual technology enables making the sensor insensitive to the most common causes of false alarms.

Surface mounting devices

Detectors and contacts with wired connection:

Dual technology passive infrared and microwave detectors: ideal for installations in places where there are pets; the detector offers a variety of functions including anti-masking, autoset, and memory type alarm.
Thanks to 2 identification modes with 2 levels of sensitivity, it allows you to select that which best suits the site to be protected, optimising detection ability and reducing false signals to a minimum:

- detector with **PET mode** (art. 01720);
- detector with **BLIND mode** (art. 01721);
- curtain detector to protect entrances and window fixtures (art. 01722);
- IP54 curtain detector to protect entrances and window fixtures (art. 01723);
- water detector for protection against flooding (art. 01724);

Sensors for doors and windows: allows for the opening of any doors and/or windows within the rooms to be monitored:

- magnetic contact for flush mounting (art. 01820);
- magnetic contact in metal for flush mounting (art. 01821);
- magnetic contact for visual installation (art. 01822);
- magnetic contact in a metal enclosure for visual installation (art. 01823);
- electromechanical wire contact to protect blinds and shutters (art. 01825);
- electromechanical inertial contact to protect windows and doors (01826).

Radio frequency devices

Used to extend the alarm system without the need for wiring or building work:

- **detector with magnetic contact for doors and windows** (art. 01727): a bidirectional radio device with a HALL-effect sensor and 2 terminal block inputs for connection to two external sensors, activated via an external magnet powered with a 3 V lithium battery;
- **passive infrared motion detector** (art. 01728): a bidirectional radio device powered with a 3 V lithium battery, with a terminal block input for connection to an external sensor.
- **dual technology IP54** curtain presence detector (01731) for outdoor use: this is a two-way radio device to protect entrances and openings (doors, windows, covered terraces, corridors and French doors) powered by a 3 V CR2 lithium battery.
- **868 MHz radio frequency interface** (art. 01729): allows for the integration of detectors and **remote controls into the system (art. 01730)**, and allows for the number of inputs in the control panel to be extended with a RS485 serial link.

Eikon dual technology flush mounting motion detector

Eikon flush mounting siren

Eikon connector/splitter and transponder key

Dual technology surface mounting motion detector

Magnetic contact in radio frequency

Remote control

Example: 80 m² flat with By-alarm burglar alarm system.

The example shows a By-alarm burglar alarm system in a flat of 80 m², which allows:

- manage the entire system from the surface mounting control panel 01700 (up to 24 zones) installed in the technical room, to which all of the system devices are connected;
- the programming, activation/deactivation and partialising of the system using the backlit keypad 01705 installed in the input;
- the movement detector in the living room and hallway with its dual technology detectors 01721 that, thanks to 2 detection modes with 2 levels of sensitivity, optimise detection ability and prevent false signals;
- control of doors and windows in the living room, kitchen and bedroom thanks to magnetic contacts installed in the door/window fixtures.

The same type of system can be created using the control panel 01703, expandable up to 64 zones and with wired sensors, sirens for indoor and outdoor use, connectors, keypads and expansion modules, whether wired or in radio frequency.

Siren for outdoor use

Surface mounting control panel

Keypad

Dual technology detector

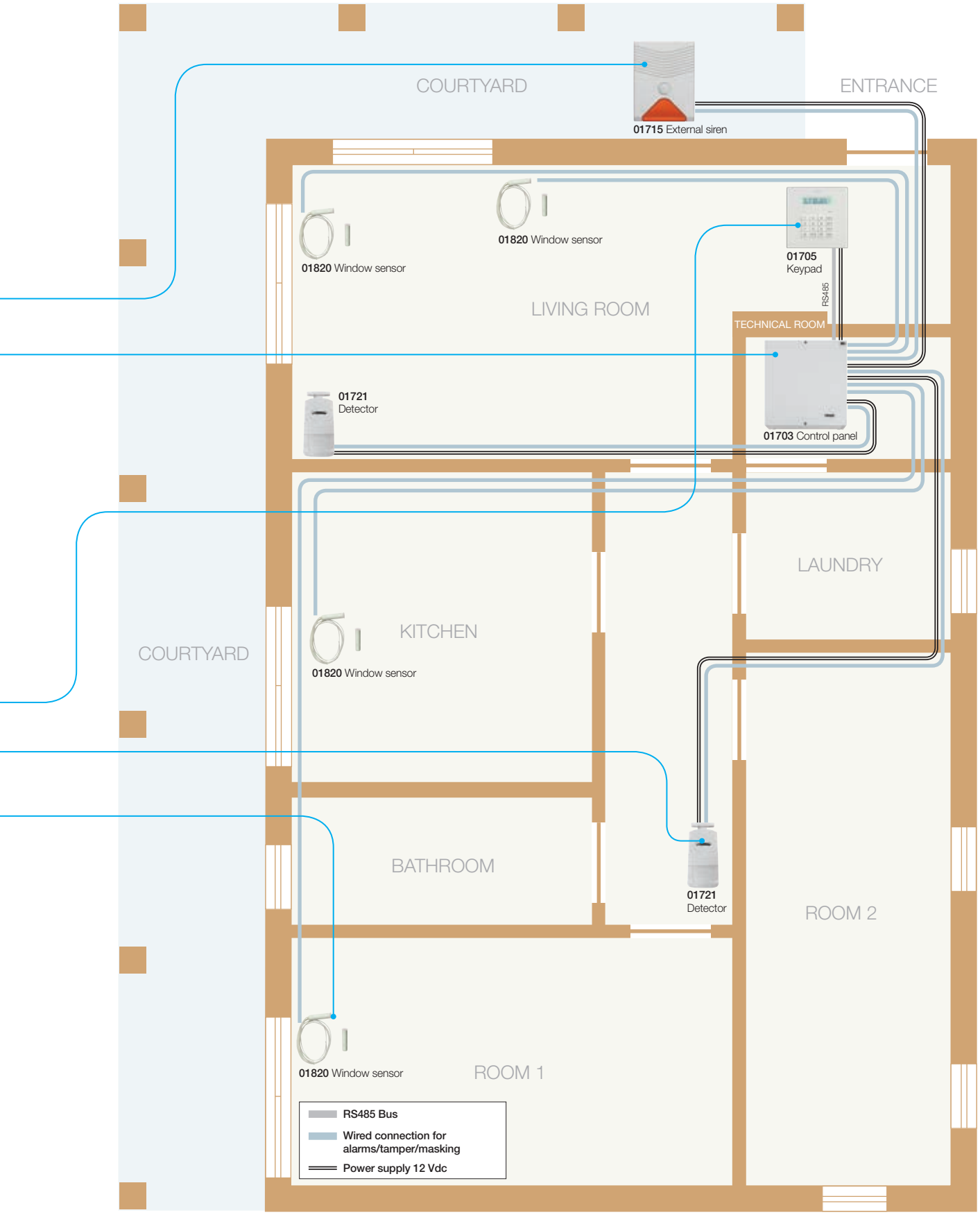
Window contact

Devices included in By-alarm system

Code	Description	Qty	Absorption (mA)
Detector and magnetic contacts			
01721	By-alarm surface mounting anti-crawl detector	2	80
01820	SAI-BUS flush mounting magnetic contact	4	-
System components			
01705	By-alarm keypad with display	1	105
01715	By-alarm siren for outdoor use	1	30 (stand-by) or 60
			Total power supplied with a 7 Ah battery for powering the system (mA)
01700	By-alarm 24 zone 230 V~ control panel	1	500

By-alarm: burglar alarm system

Typical system: 80 m² flat with By-alarm burglar alarm system.



Example of system in an apartment measuring 80 m².

Cables

01732.E
Cable for By-alarm system, 2x0,22 mm², with LSZH sheath, CPR Eca class, suitable for installation with Category 1 power cables (U0 = 400 V), white - 100 m

01733.E
Cable for By-alarm system, 2 x 0,50 mm² + 2 x 0,22 mm², with LSZH sheath, CPR Eca class, suitable for installation with Category 1 power cables (U0 = 400 V), white - 100 m

01734.E
Cable for By-alarm system, 2 x 0,50 mm² + 4 x 0,22 mm², with LSZH sheath, CPR Eca class, suitable for installation with Category 1 power cables (U0 = 400 V), white - 100 m

01735.E
Cable for By-alarm system, 2 x 0,50 mm² + 6 x 0,22 mm², with LSZH sheath, CPR Eca class, suitable for installation with Category 1 power cables (U0 = 400 V), white - 100 m

System components

01700
Control panel, 230 V~ 50 Hz, 8 local inputs expandable to 24, surface mounting.
Dimensions: 325x353x126 mm

01700.DE
As above, in German language

01700.120
As above, 120 V~ 60 Hz

01703
Control panel, 230 V~ 50 Hz, 8 local inputs expandable to 64, surface mounting.
Dimensions: 325x353x126 mm

01703.DE
As above, in German language

01703.120
As above, 120 V~ 60 Hz

01717
Additional power supply unit, 230 V~ 50/60 Hz 1,5 A, surface mounting.
Dimensions: 325x353x126 mm

01717.120
As above, 120 V~

01714
Tear-proof box for expansion modules, surface mounting.
Dimensions: 144x110x42,5 mm

01707
GSM Dual Band high-gain aerial

01707 - Installation example.

01706
GSM Dual Band GSM/GPRS 900/1800 MHz transmitter/receiver module

01736
Extension cable for 01706 GSM Dual Band communicator aerial, 10 m long

01708
PSTN communicator for control panel

ZBA1
12 Vdc 7 Ah spare rechargeable battery, for 01715 siren

ZBA5
12 Vdc 2,2 Ah spare rechargeable battery, for 01715 siren

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Expansion modules and voice synthesis module for control panel

01704
8-input expansion module

01709
4-input expansion module

01710
4-output expansion module

01713.EN
Voice synthesis module for control panel, in English

Interfaces

01711
Isolated interface for Bus signal regeneration

01712
Interface for Ethernet network (LAN) and By-me home automation system (via Web server 01945, 01946), remote and local supervision/control over IP

01725
Configuration cables and interfaces

Keypad and siren for outdoor use

01705
LED keypad with display, 12 Vdc, surface mounting. Dimensions: 125x125x24,3 mm

01705.DE
As above, in German language

01715
Siren for outdoor use

01716
Dummy siren for outdoor use
Dimensions: 203x268,6x73,75 mm

Configuration modes

By-alarm Manager, software for the configuration of the system

By-alarm tutorial: product configuration with software, **in English language**

By-alarm tutorial: product configuration with keypad, **in English language**

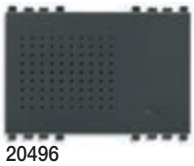
By-alarm tutorial: product configuration with software, **in German language**

By-alarm tutorial: product configuration with keypad, **in German language**

By-alarm: burglar alarm system

EIKON	ARKÉ	PLANA

Indoor siren



20496
Indoor siren, grey
- 3 modules.
Depth: 37 mm

20496.B
Indoor siren, white
- 3 modules.
Depth: 37 mm

20496.N
Indoor siren, Next
- 3 modules.
Depth: 37 mm

19496
Indoor siren, grey
- 3 modules.
Depth: 36,5 mm

19496.B
Indoor siren, white
- 3 modules.
Depth: 36,5 mm

19496.M
Indoor siren, Metal
- 3 modules.
Depth: 36,5 mm

14496
Indoor siren, white
- 3 modules.
Depth: 36 mm

14496.SL
Indoor siren, Silver
- 3 modules.
Depth: 36 mm

Activator/partialiser

20478
Grey.
Depth:
41,4 mm

20478.B
White.
Depth:
41,4 mm

20478.N
Next.
Depth:
41,4 mm

19478
Grey.
Depth:
40,7 mm

19478.B
White.
Depth:
40,7 mm

19478.M
Metal.
Depth:
40,7 mm

14478
White.
Depth:
40,4 mm

14478.SL
Silver.
Depth:
40,4 mm

IR and microwaves motion detector

20479
IR and microwaves motion detector, grey - 2 modules.
Depth: 26,5 mm

20479.B
IR and microwaves motion detector, white - 2 modules.
Depth: 26,5 mm

20479.N
IR and microwaves motion detector, Next - 2 modules.
Depth: 26,5 mm

19479
IR and microwaves motion detector, grey - 2 modules.
Depth: 26,2 mm

19479.B
IR and microwaves motion detector, white - 2 modules.
Depth: 26,2 mm

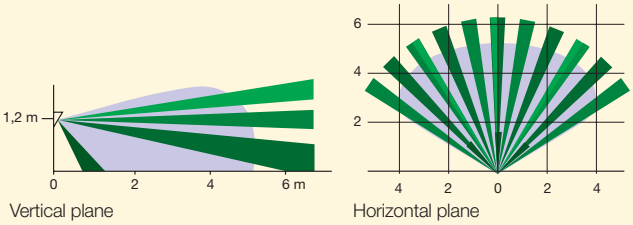
19479.M
IR and microwaves motion detector, metal - 2 modules.
Depth: 26,2 mm

14479
IR and microwaves motion detector, white - 2 modules.
Depth: 25,5 mm

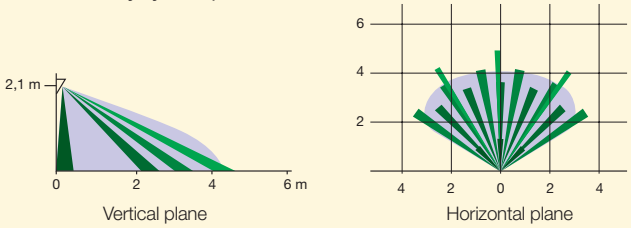
14479.SL
IR and microwaves motion detector, Silver - 2 modules.
Depth: 25,5 mm

20479 - Areas of volumetric coverage

1. Flush mounted installation at 1,2 m



2 Installation with mounting frame art. 00802 at height of 2,1 m and detector facing the lowest elevation angle (installation not certified to IMQ-security systems)



Detection area: Infrared Microwave

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Accessories

00802.14
Orientable support for presence detector, grey

00805.14
Adaptor for orientable support flush mounting, grey

00800.14
Frame for orientable support surface mounting, grey

00802
Orientable support for presence detector, white

00805
Adaptor for orientable support flush mounting, white

00800
Frame for orientable support surface mounting, white

00802.20
Orientable support for presence detector, Next/Silver

00805.20
Adaptor for orientable support flush mounting, Next/Silver

00800.20
Frame for orientable support surface mounting, Next/Silver

01718.G
Transponder key for connector, green

01718.Y
Transponder key for connector, yellow

Surface mounting detectors

01720
Passive infrared and microwave dual technology detector, PET immune, surface mounting

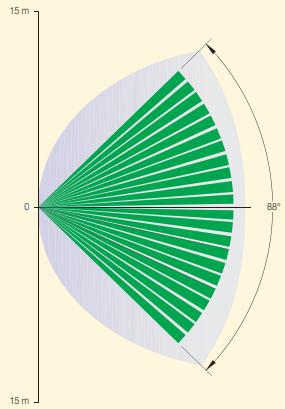
01721
Passive infrared and microwave dual technology detector, anti-masking and anti-crawl, surface mounting

01722
Dual technology curtain detector, for entrances and windows, surface mounting

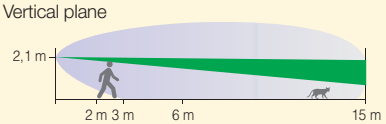
BY-ALARM

01720 - Areas of volumetric coverage

Horizontal plane



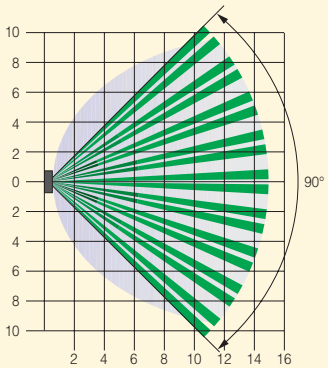
Vertical plane



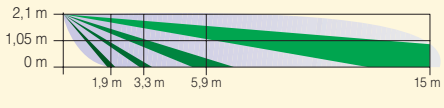
Detection area: Infrared Microwave

01721 - Areas of volumetric coverage

Horizontal plane



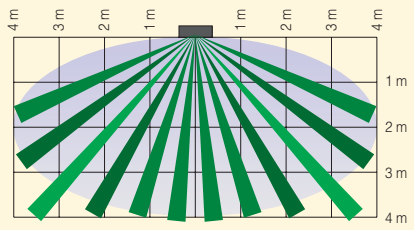
Vertical plane



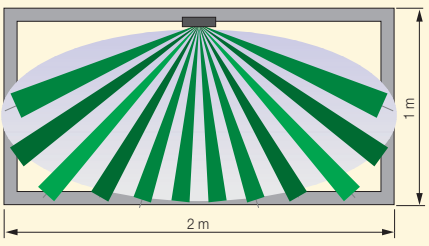
Detection area: Infrared Microwave

01722 - Areas of volumetric coverage

Surface mounting



Example of coverage for a 2x1 m window



Detection area: Infrared Microwave

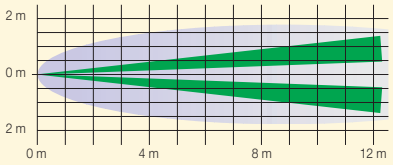
Surface mounting detectors

Mounting with rainproof cover or with bowl

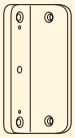
01723
IP54 curtain detector for outdoor use, with dual technology, for entrances and windows, surface mounting

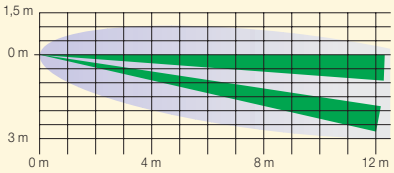
01723 - Areas of volumetric coverage

View from above on corridor installation

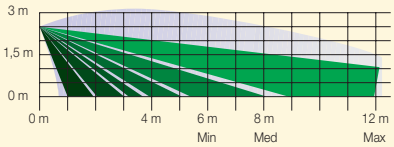


View from above with mounting frame





Side view



Detection area: Infrared Microwave

Burglar and technical alarms devices

01724
Water detector for protection against flooding, floor mounting

01823
Magnetic contact in metal enclosure for visual installation

01825
Electromechanical cordoperated contact for rolling shutters protection

01826
Electromechanical inertial contact for windows and doors protection

01820
Flush mounting magnetic contact

01821
Metal flush mounting magnetic contact

01822
Visible surface magnetic contact

Radiofrequency devices

01729
Two-way 868 MHz radiofrequency interface

01727
Detector with magnetic contact for doors and windows

01730
Two-way 868 MHz radio frequency remote control

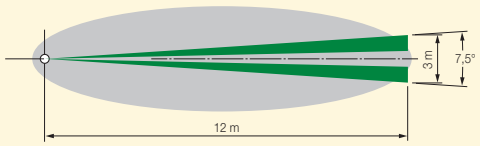
01731
IP54 curtain radio frequency detector for outdoor use, with dual technology, to protect entrances and openings, surface mounting, powered by 1 3 V CR2 lithium battery (supplied)

01728
Infrared detector

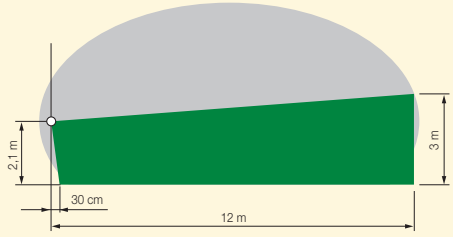
BY-ALARM

01731 - Areas of volumetric coverage

Horizontal plane



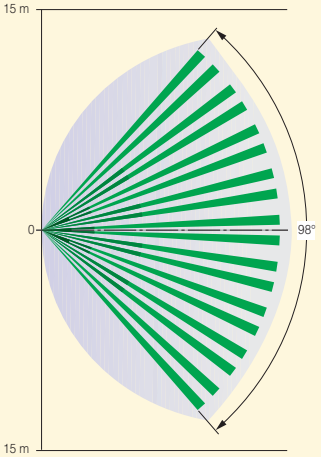
Vertical plane



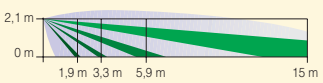
Detection area: Infrared Microwave

01728 - Areas of volumetric coverage

Horizontal plane



Vertical plane



Detection area: Infrared Microwave

Absorptions and dimensions

Bus devices RS485

Code	Description	Absorptions	Dimensions
01705...	Keypad with LED-backlit display	16 mA (backlighting switched off) 105 mA (backlighting switched on)	125x125x24,3 mm
01704	8-input expansion module	18 mA max	55x100 mm
01709	4-input expansion module	18 mA max	76x47 mm
01710	4-output expansion module	82 mA max	76x62 mm
20478...	EIKON activator/partialiser	20 mA max (LEDs switched off) 42 mA max (LEDs switched on)	22,3x49x50,9 mm
19478...	ARKÉ activator/partialiser		22,3x49x50,9 mm
14478...	PLANA activator/partialiser		22,3x49x50,9 mm
01729	Radiofrequency interface	40 mA max (LEDs switched off) 80 mA max (LEDs switched on)	145x110x40 mm

Stand-alone devices

Code	Description	Power supplies and absorptions	Dimensions
01715	Siren for outdoor use	13,8 Vdc 30 mA (stand-by) 60 mA (Input while charging battery) 1,5 A (in an alarm state, current supplied by the external battery)	203x268,5x73,25 mm
20496...	EIKON indoor siren	12 Vdc 18 mA (stand-by) 110 mA (during acoustic alarm indication)	67,3x49x46,5 mm
19496...	ARKÉ indoor siren		67,2x49x47,9 mm
14496...	PLANA indoor siren		67,3x49x46,5 mm
20479...	EIKON presence detector	12 Vdc 15 mA (stand-by) 28 mA max	44,8x49x43,5 mm
19479...	ARKÉ presence detector		44,7x49x43,5 mm
14479...	PLANA presence detector		44,8x49x43,5 mm
01720	Surface mounting detector	12 Vdc 30 mA (stand-by) 40 mA max	60,9x115,9x93,3 mm
01721	Surface mounting detector		
01722	Surface mounting detector	12 Vdc 40 mA max	110x26x31 mm
01723	Surface mounting detector	12 Vdc 60 mA (stand-by) 70 mA max	71,5x155,7x103 mm
01724	Water detector	12 Vdc nominal (5 ÷ 16 Vdc) 3,5 mA (nominal) 5 mA max	52x19,25x12 mm)
01706	GSM transmitter/receiver module	13,8 Vdc 60 mA (stand-by) 84 mA (medium) 350 mA max (on call)	58x82 mm
01708	PSTN comunicator	13,8 Vdc 35 mA (medium) 55 mA max	60x124 mm
01711	Insulated interface for Bus RS485	12 Vdc 25 mA	47x75 mm
01712	Interface to the Ethernet network	Powered directly by the control panel 190 mA	150x70x30 mm

Radiofrequency devices

Code	Description	Power supplies and absorptions	Dimensions
01727	Detector with magnetic contact for doors and windows	Lithium battery 3V CR2 (average battery life: 4 years)	29x95x24,5 mm
01728	Infrared detector	Lithium battery 3V CR123 (daverage battery life: 4 years)	60,8x111x45,4 mm
01731	Surface mounting detector	Lithium battery 3V CR2 (average battery life: 4 years)	40x130x60 mm

General features

Control panel	01700, 01700.DE, 01700.120	01703, 01703.DE, 01703.120

Standard characteristics

Inputs	8 (expandable to 24)	8 (expandable to 64)
	with single, double or triple balance (with sensor masking recognition)	
tamper-proof protection inputs	1	
Areas	8 (inputs that can be associated with 8 areas of belonging for the management of 8 different systems)	
Alarm relays output	2 (can be programmed separately, of which one has two positive safety exchanges)	
Change-over relay output	1 x 24 V 3 A (expandable to 24)	1 x 24 V 3 A (expandable to 64)
Programming	using the keypad using a computer and By-alarm Manager software (Windows operating systems)	
Pre-configuration	Yes, for the management of 6 zones	
Macro	20 macro instructions with 10 commands each, activated by: - zone displacement and alarm, system event - programmable time switch - user RFA function	
Codes	50 User Codes with programmable function limitation 50 Emergency Codes 1 Installation Code	
Activation	3 activation modes for each Area (ON, INT, and PAR) the possibility of external activations with proximity reader in 3 modes for each Area via User Remote management, guided by voice menu or by text with the By-phone app. via hourly/weekly programmable time switch in the 3 modes for each Area	
Clock	weekly clock with 32 daily operations and exclusion management possibility of switching on and off, code and keypad restriction, macro activation time and status activation of active outputs	
Telephone	16 phone numbers for communication with protocols: SIA for communications with standard SIA receivers, SIA for communications with standard CONTACT receivers; voice synthesis module **01713.EN** with voice protocol for automatic communication, allowing for all alarm and control panel functions to be sent to private Users; GSM Dual band transmitter/receiver module **01706** that allows for all alarm and control panel functions to be sent via the GSM network in all protocols and via text message	
Codes	50 User Codes with programmable function limitation 50 Emergency Codes 1 Installation Code	
Distance between control unit and detectors/inputs contacts	100 m max	
Bus RS485 length	600 m max (the sum of all the Bus sections laid out). The isolator/repeater module **01711** lets you expand another 600 m of cable	
Power supply	230 V 50 Hz (**01700, 01700.DE, 01703** and **01703.DE**) - 120 V 60 Hz (**01700.120** and **01703.120**)	
Power supply unit	13,8 Vdc 1,5 A effective total (with indication of an insufficient level of battery power and lack of network voltage)	
Power supply output	1 x 13,8 Vdc 1,5A (expandable with additional power supply unit)	
Environmental conditions	-10° C/+40° C	
Housing	metal	
Installation	surface mounting	
Dimensions (LxAxP)	322 x 350 x 115 mm	
Weight	3,5 kg	
Degree of safety	2 (EN 50131-3, EN 50131-6)	
Ambient class	II (EN 50131-3, EN 50131-6)	

Additional components

Keypad	up to 4 keypads **01705, 01705.DE**	up to 8 keypads **01705, 01705.DE**
	Connected to the RS485 Bus, direct signalling via LED of the power supply status, system status and circuit test	
Connectors	up to 4 connectors **20478/19478/14478**	up to 8 connectors **20478/19478/14478**
	Connected to the RS485 Bus	
Additional input module	**01709**, 4 input lines of single, double or triple balance (with signal masking recognition) **01704,** 8 input lines of single, double or triple balance (with signal masking recognition) **01729,** radiofrequency interface with 8/16 zones of single or double balance with management of sensor control, programmable using the same modes as the standard zones	
Additional relay outputs module	**01710,** at 4 relay outputs, free exchange from programmable supply voltage (24 V 3 A)	
Additional output supply unit	**01717, 01717.120**	
GSM transmitter/receiver module	**01706**	
PSTN comunicator	**01708**	
Voice synthesis module	**01713.EN**	
Batteries	12 Vdc 7 Ah or 12 Vdc 18 Ah flammability class UL94-HB	

WELL-CONTACT PLUS: BUILDING AUTOMATION.

Automation for the whole building, with integrated functions and centralised monitoring.

Flexible, interoperable and modular, **Well-contact Plus** is the Vimar system developed on the **KNX standard**, for complete building management. Whether in small or large hotels, offices, multi-purpose centres or even gyms, Well-contact Plus is the solution that provides constant control and management of lights, temperature, security, energy and accesses, with functions and comfort in every single environment, and it can also be integrated with third-party systems.

Maximum performance in residential sectors.

With Well-contact Plus, control, comfort and energy efficiency are guaranteed. Indeed, the system permits the centralised management of any building. Raising and lowering curtains or rolling shutters, setting the climate, dimming lighting, controlling access points, but also viewing the images captured by CCTV video cameras. All managed from a single point.

Automation systems.

KNX controls for automatic devices that raise/lower roller shutters. They are fitted with RGB LEDs with set symbols, chosen from a wide library. Available for the Eikon, Arké and Plana series, also with on-board actuator.

Smart lighting.

KNX controls for light control, with 4 or 6 independent keys, which can be customised with icons describing their function, available for Eikon, Arké and Plana, also with on-board actuator.

Energy management.

IR motion detector. Used to switch on the lights only if there is actually someone present, providing the perfect blend of functionality and energy saving.

Room control.

Supervision of an environment or the whole system using elegant devices characterized by intuitive icons, like the Full Flat touch screens for flush mounting or in table mounting boxes.

Video surveillance.

Multimedia video touch screen. Integrated with video surveillance systems, they provide a perfect high-definition picture of what's going on inside and outside the building.

Advanced solutions for offices and schools.

High-performing, safe and immediate. For the control, comfort, energy efficiency and safety of offices and the service industry, Well-contact Plus offers a series of devices and systems to ensure the quick, effective and centralised management of all work spaces.

Optimum climate control.

Touchscreen thermostat. Controls room temperature to assure made-to-measure comfort. The status can be managed and supervised from the reception.

Total supervision.

The whole building is supervised from a single control device. Elegant touch devices are used to control every environment, managing all the functions in the building.

Energy saving.

Fitted with an infra-red technology motion detector, the lights only come on when and where needed.

Customised atmosphere.

To respond to specific moments in the working day, customised scenarios can be called up from a single point, by activating several functions at the same time. Thus, for a multimedia presentation, one gesture is all that is needed to lower the screen and pull the curtains, dim the lights and activate the projector.

Maximum efficiency and security for hotels.

All the systems present are fully integrated and this results in real benefits, **preventing futile waste** and increasing well-being. The **climate** is controlled using a centralised system which can be activated or deactivated depending on whether people are present and on whether or not a window is open. The **security** of the system is ensured by transponder card readers which only allow specific areas or environments to be accessed by authorised persons and by the **video surveillance** system, which is capable of keeping watch over the whole building.

Access control.

Transponder reader. Simply place the card near the reader to open the electrical lock and turn on the courtesy lights. The reader is used to restrict the access to different environments to authorised persons.

Global supervision.

There are seven different applications in the **Well-contact Suite**, differentiated according to the use and dimensions of the building, which manage and control all the devices in the system.

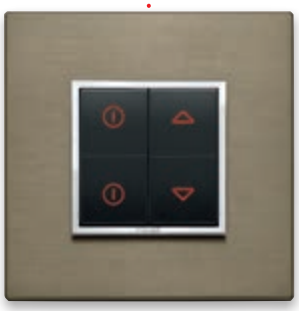
Well-contact Plus: building automation

Typical system: 160 m^2 villa with KNX automation system (lights and roller shutters), climate control by area and supervision.

The example shows an automation system with KNX devices to manage lights and roller shutters, climate control and supervision of the whole system from touch screen or mobile devices, in a 160 m^2 villa.

- Controls 01580 are installed in the lounge to switch lights On/Off and move roller shutters Up/Down, as well as a 4.2" Full Flat touch screen connected to the temperature probe 20432, to supervise the system and control the climate.
- Touch screen thermostats 02952 and controls for managing the lights and roller shutters are installed in the kitchen and the bedrooms.
- Temperature probes 20432 are installed in the bathrooms, connected to the touch thermostats in the two bedrooms.
- In the utility room, in addition to the actuators for DIN rail that manage the lights and roller shutters, there is a Web server 01545 used, through a connection to the Wi-Fi router, to supervise the whole system from the local network or remotely using a mobile device such as a PC, tablet or smartphone.
- Outside, the weather station 01546 is installed; this is integrated with the Well-contact Plus home automation system to manage the temperature control, energy and automations (for example, sun blinds, outdoor lighting and garden irrigation). The device measures the outdoor temperature, wind speed, rain and brightness, and these values are read by the supervisors.

KNX 4.3" Full Flat touch screen for managing automations and climate control.



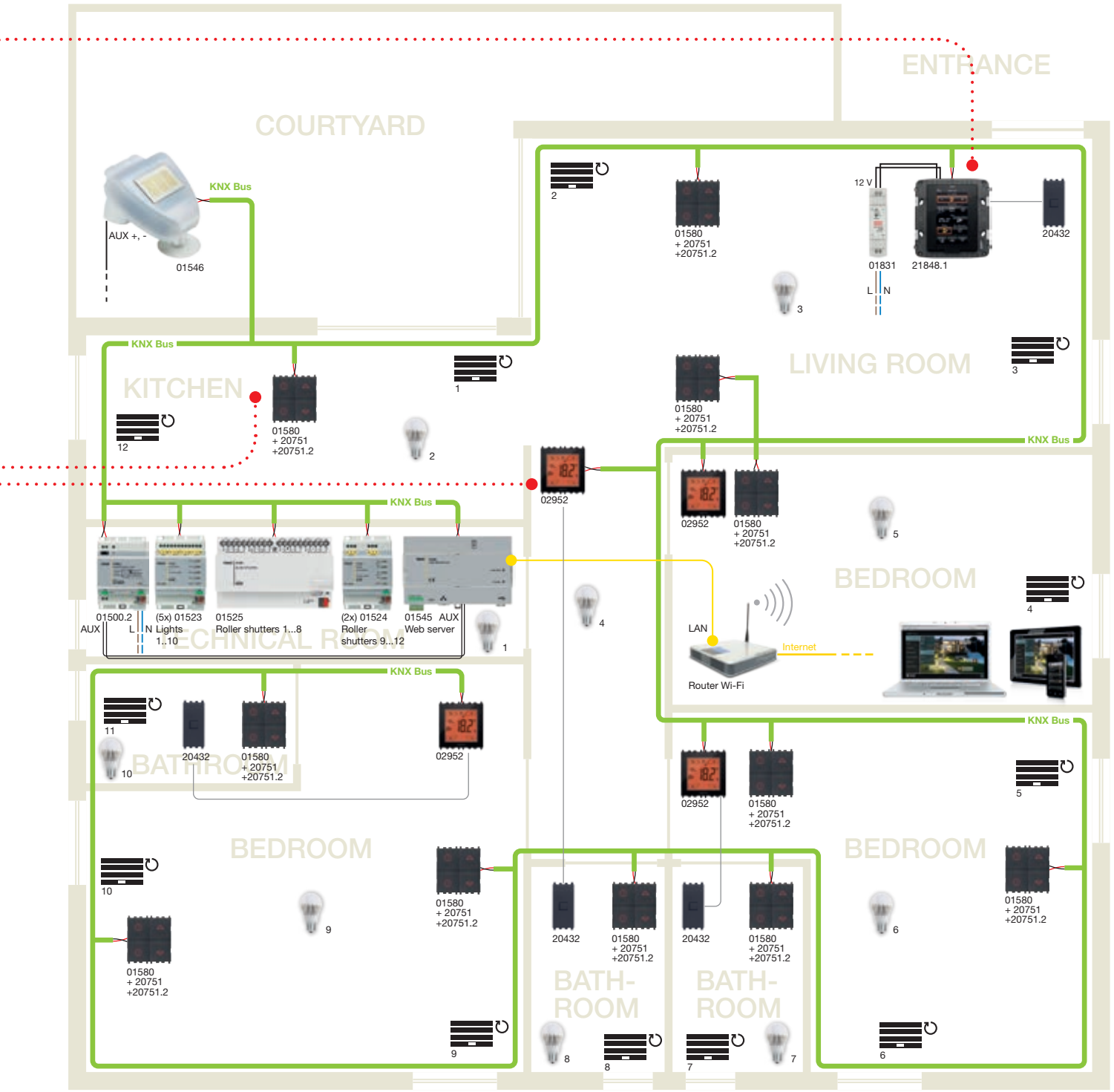
KNX home automation controls for managing lights and roller shutters.

KNX touch screen thermostat for climate control.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: 160 m² villa with KNX automation system (lights and roller shutters), climate control by area and supervision.



KNX Bus — Probes connection — Power supply 230 V~ — Auxiliary power supply — LAN connection

Well-contact Plus: building automation

Typical system: offices with KNX system for lighting control (presence and brightness sensors), climate control and supervision.

The example shows the lighting control based on presence and brightness sensors in the service industry using the Well-contact Plus system developed to KNX standard.
Using these devices ensures energy saving and optimal lighting in the working environment.

- In the offices, meeting rooms and multimedia rooms, the IR detectors with brightness sensor 01529.1 are used to control the lighting system according to the level of brightness outdoors and the people moving about in the room (motion-activated).
- DALI drivers are installed in the multimedia rooms to control 4 lamps operated via KNX DALI gateway 01544 in the utility room, adjustable via the constant brightness control by the sensor 01527.
- In the reception, on the other hand, the brightness sensor for dimmer 01528 is installed to generate the correct lighting at any time of day.
- Flush-mounting IR detectors 14850 are installed in the bathroom and utility room to control the timer-operated light.
- Touch screen thermostats are installed in every office for climate control.
  Some thermostats are connected to magnetic contacts that signal if a window is open and thus automatically switch off the heating to ensure greater energy saving.
- Every room is fitted with 4 push button home automation controls 01580 for switching the lights On/Off and controlling the roller shutters; in offices 1, 2 and 3, 6-button home automation controls with on-board relay are used to control the roller shutters and tilt the slats.
- In the meeting room the (automation and climate control) system is managed from a 4.3" Full Flat colour touch screen connected to a flush-mounting temperature probe 14432.
- The whole system is supervised from the PC in the reception area with Well-contact Suite software installed.

Detector with 360° IR motion sensor that switches on the lights according to the brightness.

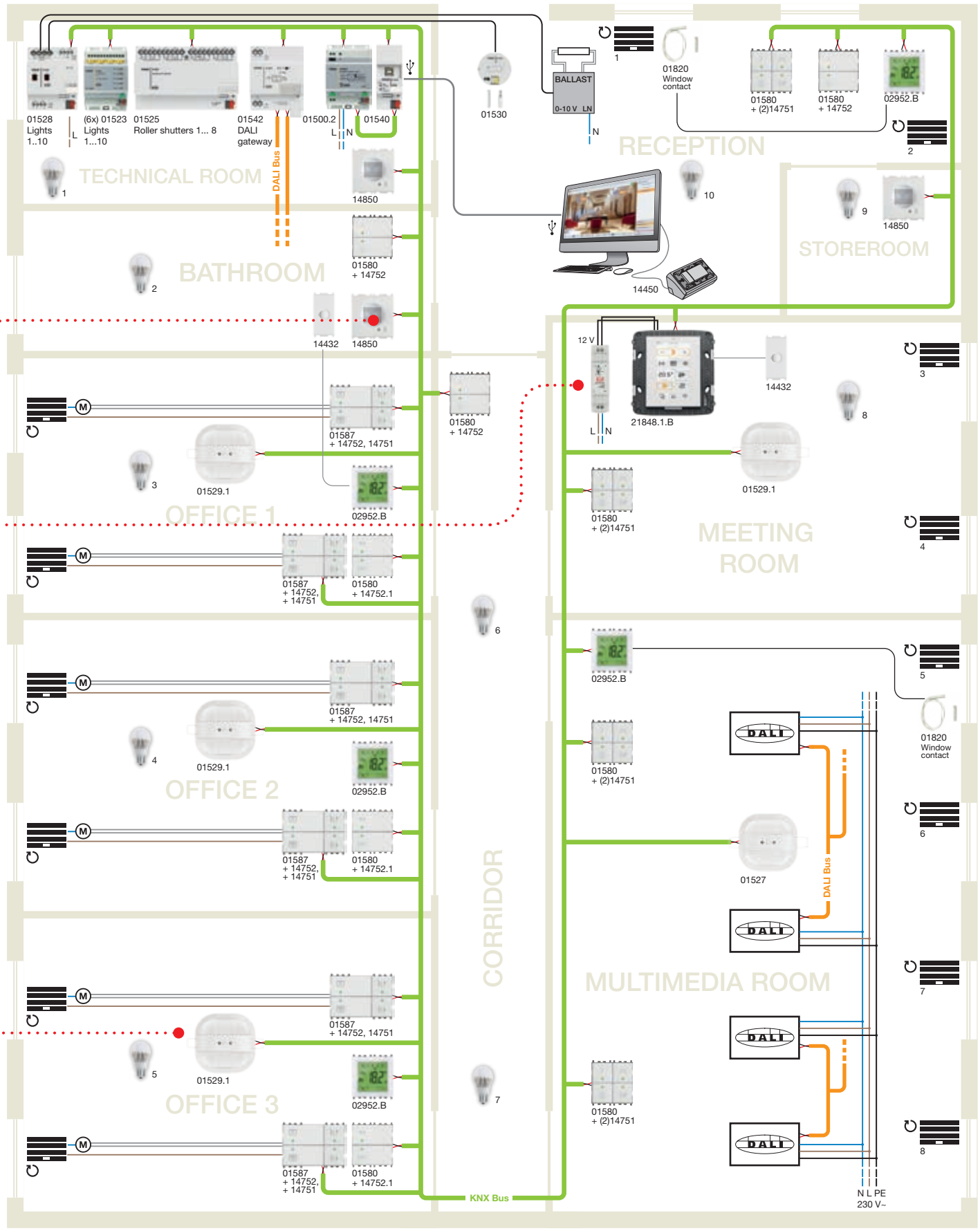
Passive infra-red motion detector for switching on the lights when someone walks past.

KNX touch screen thermostat for climate control, automation control and scenario management.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: offices with KNX system for lighting control (presence and brightness sensors), climate control by area and supervision.



KNX Bus | DALI Bus | Power supply 230 V~ | Wired connection | USB connection

Well-contact Plus: building automation

Typical system: hotel with KNX system for controlling accesses, automation (lights and roller shutters) and climate control.

The example shows a Well-contact Plus system in a hotel where the check-in/check-out functions are managed from the PC at reception with Well-contact Suite software installed.
The transponder readers installed outside the rooms are associated with the following room status signals:

- guest in room;
- room occupied or “Do not Disturb”;
- “please clean” the room;
- card recognition signalling.

In the rooms, once the card is inserted into the vertical pocket, the lights and heating are activated and the presence of the guest is promptly signalled in the system.
A touch screen thermostat is also installed; this is connected to the temperature probe in the bathroom and the magnetic contact that signals whether the window is open, if so automatically switching off the heating to ensure greater energy saving.
Finally, the KNX home automation controls 01581 (with built-in actuator) and 01580 are used to manage the lights or call for room service rather than have the room cleaned.

KNX touch screen thermostat for climate control.

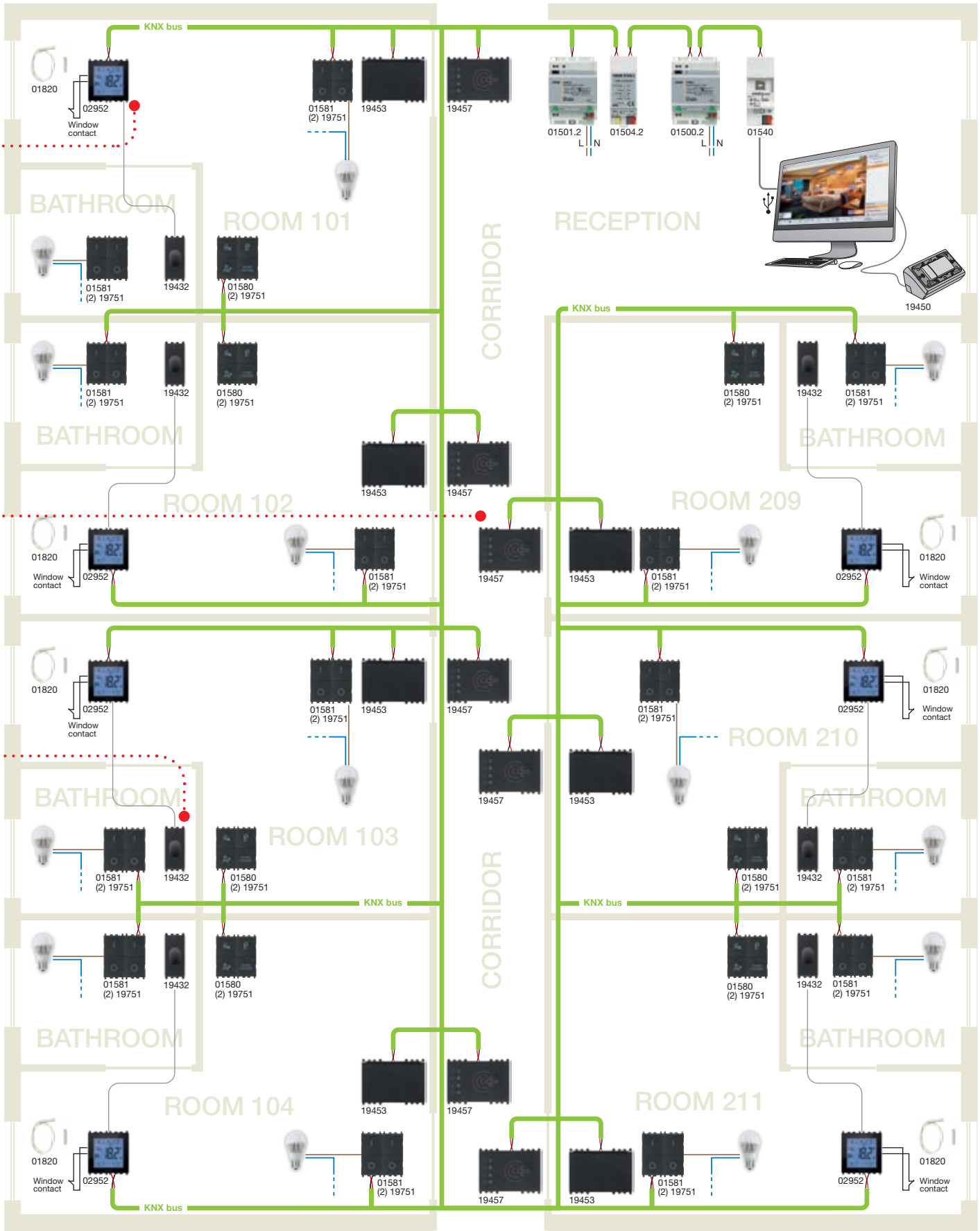
Transponder card reader.

Electronic temperature sensor.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: hotel with KNX system for controlling accesses, automation (lights and roller shutters) and climate control.



KNX Bus — Probes connection — Power supply 230 V~ — Wired connection — LAN connection — Auxiliary power supply 12 V

The diagrams are provided by way of example only. For details on the correct dimensions of the system, refer to the installation manual.

SOLUTIONS

The Well-contact Plus system, in **the hotel**, **service** and **residential sectors**, is used to create **centralised management** systems that permit the efficient integration and supervision of many functions and services, guaranteeing that it is easy to use by the personnel in charge.

In fact, more and more often, **for the optimized and effective management of their services**hotels and, more in general, hospitality facilities are requiring systems that simplify their daily operations and reduce, as far as possible, running costs, optimizing energy saving and guaranteeing a high level of comfort for their guests.

The devices of the Well-contact Plus system, developed to **KNX standard technology** and aesthetically coordinated with the Eikon, Idea and Plana series, offer technical solutions featuring outstanding efficiency, perfectly meeting all the most varied installation requirements and managing the constraints imposed by the different structures such as hotels, offices, shopping centres and advanced service industries.

Control

The great advantage of the Well-contact Plus system is that it allows supervision of all the functions and the centralised management of the whole building. Raising and lowering curtains or roller shutters, selecting the climate and manage lighting, controlling access points, viewing images captured by CCTV video cameras and outdoor video entryphones. Everything can be controlled from a single point, typically a touch screen. All the functions can be controlled and supervised locally or remotely.
Local supervision is performed via devices installed in each

room, used to locally manage the different functions (touch controls, thermostats, touch screens, etc.)
Or with supervisors (touch screen, multimedia video touch screen, etc.) which manage the building from a single control device: by selecting the various environments in the building, all the functions can be controlled.

Remote supervision is assured by the **Web server** which is used to manage the Well-contact Plus automation system via a PC, smartphone, tablet or touch-screen with a browser for viewing the web pages. Remote control is assured via a local LAN or Wi-Fi network to:
- supervise and control all the devices in the system;
- view the system status, events log, etc. at any time;
- control the environment via the IP video cameras.

For mobile devices the **KNX By-web** App is available (free download from Apple Store). By exploiting the Wi-Fi connection for local control and the Internet for control away from the home, it offers rapid access to the Well-contact Plus system functions.

Moreover, using a mobile phone, it is also possible to interact with the system via **GSM phone communicator,** to command and monitor the status of the devices in the system, and interact with them to change the relative parameters, program the system and run diagnostics operations.

Comfort

In every environment in the building you will be able to find the conditions of comfort you prefer. Dim the lighting to create welcoming relaxation areas, move the curtains or roller shutters to give the right amount of light for various daytime activities, adjust the brightness of different (conventional and energy-saving) lamps or create interplays of light: all this is possible with one simple parameter setting.

Scenario: this is a function that allows the user to "call up" a preferred set of conditions via a single command or event; creating a scenario from a PC is simplicity itself.

Event: a programme that enables/disables groups and/or scenarios under specific circumstances and/or at selected times, according to simple logic rules governed by the control unit.

The various comfort functions include the possibility of managing **light and roller shutter automations.** Thanks to the use of programmed switches, which may also incorporate an actuator, rolling shutters can be raised and lowered (likewise Venetian blinds and the tilt of the slats) and lights can be turned on and off or dimmed, to create just the right level of comfort in every environment.

Energy saving

Well-contact Plus offers full integrated climate and energy control: this means that many additional functions become available, ensuring concrete advantages in terms of both economy and living comfort.
Managing energy with advanced solutions for optimising, measuring and monitoring electricity and other consumptions, managing loads to prevent black-outs from overload, controlling the smart distribution of photovoltaic energy, understanding the energy profile of the building: these provide a more conscious way of ensuring energy efficiency.

Temperature control. With temperature control that can be programmed in a scenario, for example, the system can be set up so that, on leaving the building, the temperature will switch automatically to stand-by mode, the roller shutters will be automatically lowered and the burglar detection alarm system activated, to prevent any unwanted and costly oversights.
The temperature can be raised or lowered as and when rooms are occupied or empty, or windows are open and closed, using the same sensors and magnetic contacts as for the burglar alarm system, which in this instance become dual-purpose, offering both control and efficiency.
In addition, the climate throughout the building can also be monitored and controlled —room by room or zone by zone — not only from a single central location, such as a touch screen, but also remotely, using a smartphone or PC.

Energy management. The Well-contact Plus system, on KNX standard, can be integrated with third-party systems to optimise **energy management** and avoid futile waste, by controlling loads.
For example, loads identified as non-priority can be excluded to prevent annoying black-outs, when the energy take-up exceeds the contractual values, sending the energy produced where it is needed, or promoting the **self-consumption** of energy from the photovoltaic system.

Security

Well-contact Plus integrates with the**By-alarm** burglar alarm system, the **Elvox CCTV** video surveillance system, the **Elvox Video door video entrance panel system** and the **Elvox Automations** access control system; the building can also always be monitored remotely, via the KNX By-web app which is available free of charge for mobile devices. IT is also possible to incorporate **technical alarms** in the system to protect from gas leaks, smoke, water leaks, etc.
For more information refer to the Safety Catalogue.

MAIN CHARACTERISTICS

Based completely on KNX technology, each device is able to directly perform the required functions; in fact, each component has resident intelligence that allows it to dialogue directly with all the devices in the network.

In fact, the **KNX standard** was developed to create decentralised systems where the interchange of signals and controls occurs exclusively at operating device level: this means that each component is able to autonomously process data and transmit and/or read signals directly on the system Bus.

In short, therefore, each structure and each application can assign the priorities that it deems necessary without having to accept "take it or leave it" solutions and in any case without jeopardizing the possibility of a future implementation designed to extend the system's functions.

Thanks to Well-contact Plus, each building can select the most suitable solution, "customizing" it to suit its requirements and ensuring the flexibility that only the common European protocol (KNX) can provide in terms of interoperability of devices and secure installation.

Single devices such as the external transponder reader, reader with pocket and thermostat, besides the typical functions of card recognition and electrical lock opening, service activation and temperature control respectively, have freely programmable inputs and outputs that make the system truly flexible.
These inputs/outputs can be used to control socket outlets (courtesy lights, etc.), room service calls, alarms (bathroom ceiling pull, etc.) and energy savings (switching off the heating/air-conditioning after detecting an open window, etc.).

Completing the product range, there is an input/output device on DIN rail capable of managing 4 inputs and 4 outputs, all freely programmable, which can be associated with other services, such as controlled socket outlets, room signals, alarms and scenarios that activate different utilities depending on who enters the room (guest, staff, maintenance staff, etc.); this is obviously always supervised from reception where, thanks to the **Well-contact Suite software**, developed entirely by Vimar, it is possible to control all the events linked to the "history" of the guest throughout their stay.

System architecture

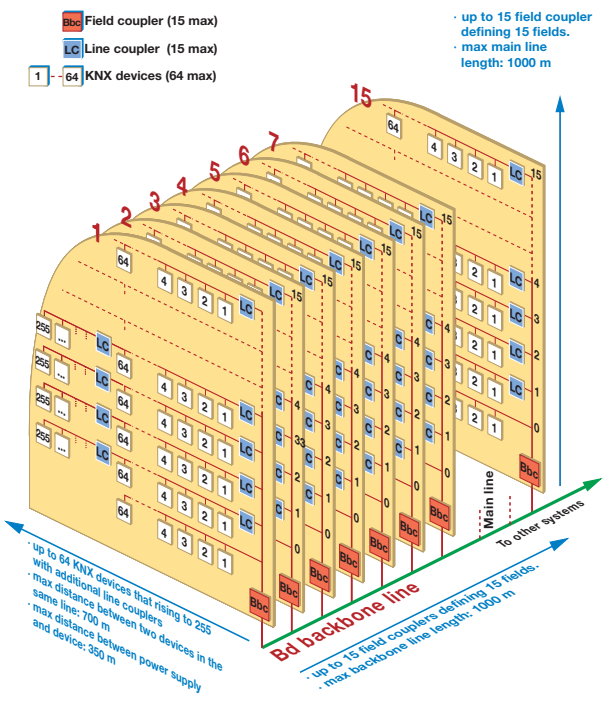
The Well-contact Plus system uses **twisted pair transmission cables**; using the Bus cable not only simplifies the installation/maintenance operations, but also ensures a high level of immunity from interference.
Information is exchanged between the devices in "telegrams" composed of a set of bits whose combinations encode the transmitted information.

For the purposes of the application functions, the most important information transmitted by each device is the following:
- the recipient address field indicating the devices which are to receive the message;
- the field containing the information about the actual function that the device must perform;
- the sender's address indicating the device that has sent the message.

Each device has a specific "physical" address that identifies it uniquely in the system and therefore there can be no identical physical addresses.
As regards the recipient address, in normal operating conditions, this always consists of a group address; via the group addresses the various components are "logically wired" so that (even highly complex) functional correlations can be established between the various devices.

Modifying the group addresses with the special ETS configuration software changes the functions of the devices (for instance associations between inputs and outputs) without making any changes to the system wiring.
The basic element in the system is the line segment: this is also the starting point for expanding the system up to the maximum possible configuration in terms of devices and shared functions.
Each line segment can be composed of up to 64 devices (readers, thermostats, I/O devices, etc.) and needs one or two power supplies depending on the number of components.
If two power supplies are used, they must be set apart at a distance of no less than 200 m.
The maximum distance between a device and the power supply on the same line must not exceed 350 m.
The maximum distance between two devices on the same line must not exceed 700 m.
Up to three couplers can be connected to each line as repeaters, each one of which manages a segment of up to 64 devices with their power supplies for a maximum of 255 devices.

Well-contact Plus system general diagram

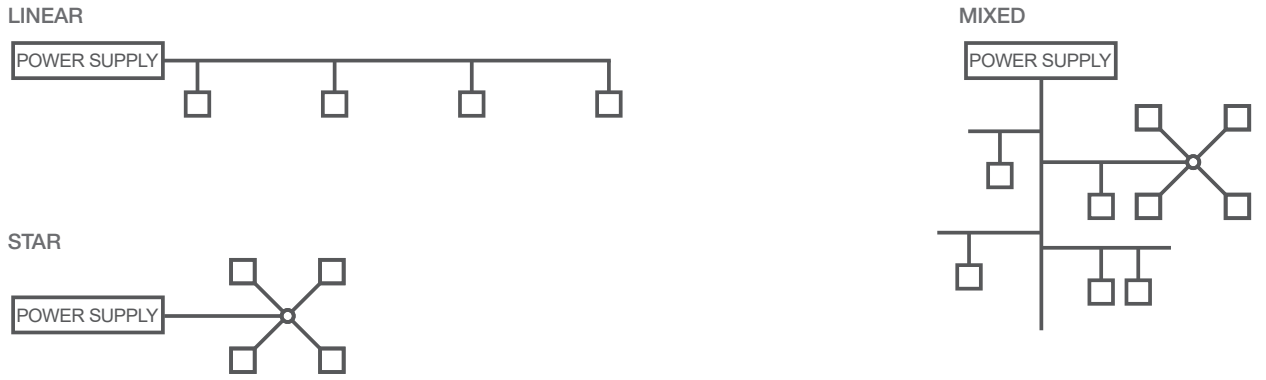


The Bus line can be connected in different configurations (star point, tree, etc.); the maximum length cannot in any case exceed 1000 m.

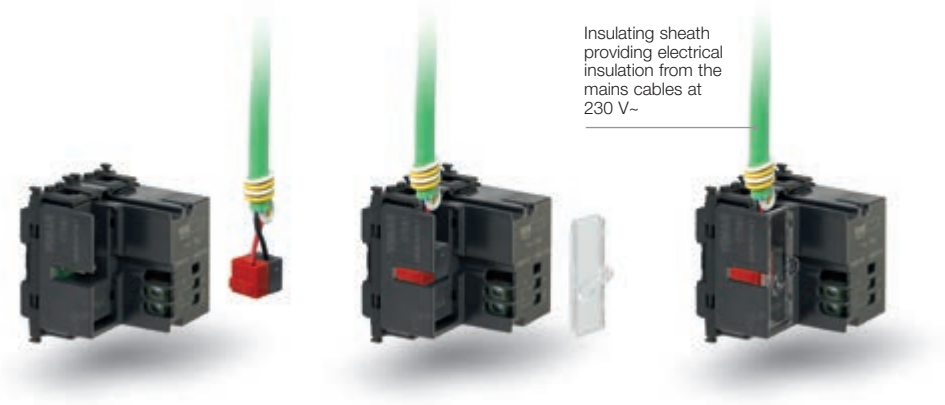
Several lines can be connected together with the 01504.1 couplers; it is possible to connect up to **15 lines** on a single backbone, which is itself simply a line formed by all the couplers and the devices.

This new element takes the name of **field** or **area**; the system can manage up to **15 fields** and this represents the maximum expansion of the system.

Line installation topologies



Twisted pair wiring



Preparing the system

When preparing the system, it is important to have a clear idea of which functions and applications are to be created; obviously this will depend on the type and complexity of the building where the system is to be installed.

The system is composed of a range of 8 types of devices; in the configuration phase, via the ETS software you assign the "task" that each of these devices must perform, defining the input/output associations and the utilities to control.

When creating an installation with the Well-contact Plus system the following components are used:

- power supplies
- line coupler
- transponder card reader
- transponder card reader with pocket
- thermostat
- 4.3" Full Flat colour touch screen
- control with 4 and/or 6 independent push buttons
- transponder card reader/programmer
- input/output device
- USB interface

As regards the actual preparation of the system and therefore laying out the cables and positioning the devices, simply take into account the characteristics given in the table below, complying with the following precautions:

- add up the power inputs of the single devices (that must be no more than 64 for each line segment) so as to determine the number of power supplies to install; if the absorption of the devices in a line is greater than the current delivered by the power supply (for instance 320 mA) it is necessary to connect an additional power supply or use a power supply able to deliver a greater current (for instance 640 mA);
- the transponder readers and those with a vertical pocket are equipped with an additional supplementary power supply with respect to the connection on the KNX Bus 12-24 V.
  Note: the power supply must be separate from all other loads (electrical lock, lamps, remote switches, etc.) via a dedicated transformer art. 16887, the outputs of which must be used exclusively for these two devices.
- evaluate accurately, according to the dimensions of the property, whether a line can be considered as a floor or whether a line can cover a number of floors or, vice versa, whether the building is so large that covering a floor requires a number of lines (therefore, in the design phase, take account of the characteristics of a line in terms of number of devices and distances);
- the number of lines forming the system will determine the number of couplers that must be installed (the lines are connected together by line couplers that allow communication between devices belonging to different lines);
- during the design phase it is important to determine the correct position of the various devices within the system.

In a standard hotel system, we may hypothesise the reception, dining room, administrative offices, meeting room, utility room and store on the ground floor, and the guest rooms on the upper floors.
The following must be installed in each room:

- an external transponder reader for accessing the room and displaying the messages via the 4 front LEDs;
- a reader with a pocket for activating the associated loads (utilities);
- a thermostat for controlling the temperature set-point;
- a control with four independent push buttons for "do not disturb", "room service call" and "lights control" functions;

In the suite, in place of the control with four independent push buttons, two 4.3" Full Flat colour touch screens are installed to manage lights, climate and any scenarios.

The transponder readers are also used to discriminate accesses to the offices and other rooms (store, utility room, etc.) located on the ground floor; this shows how the Well-contact Plus system can easily be used in both hotel and service industries.

Well-contact Plus system		Characteristics
Bus devices	Number of Bus devices for each single line segment	max 64 (with power supply 640 mA)
	Number of lines	max 16 per field (total 241 lines)
	Number of fields	max 15
	Maximum distance between two devices	700 m
Power supply	Minimum working voltage	21 Vdc
	Number of power supplies for line segments	max 2
	Max current per line	640 mA
	Minimum distance between the two power supplies	200 m
Topology	Permitted connections	linear, tree, star and mixed
Transmission	Transmission technique	decentralized, by event, serial, symmetrical
	Transmission speed	9600 baud
Cable	Bus cable section	2 x 2 x 0.8 mm^2
	Max length per line	1000 m

PROGRAMMING AND CONFIGURATION

Programming from PC

The functions of each device are **programmed** using **the ETS software**; in other words, a project is created in which each room is composed of a certain number of components, each of which is in turn assigned operational parameters.
It will therefore be possible to choose, for instance, whether a relay must work in one-position stable, two-position stable, N/C or N/O mode or the type of thermostat temperature control (proportional integral, ON/OFF, etc.) or configure an input to recognise signal fronts, cyclical repetitions, etc.
ETS also enables Well-contact Plus devices to interact with other KNX appliances not supplied by Vimar, not only to make the system suitable for the widest range of applications, but also so that it can be integrated with existing devices (renovations).

The main competitive characteristics of the Well-contact Plus system can be summarized as follows:

- no centralized smart room module is necessary;
- all the functions and "intelligence" of the system are distributed over the various devices;
- the flush-mounting devices that must be installed in the room are equipped with free inputs and relay outputs that reduce the need for additional terminals;
- the system is extremely flexible thanks to the modular design of the range and its potential for easy, low-cost expansion to meet future needs;
- extremely simple, flexible system management software that also allows interfacing with the most widely used administrative software.

The **ETS software** (Engineering Tools Software) is **marketed by KNX Association**. With the ETS software, you address the different devices operating in the system and establish the related functional correlations (or group addresses).
Establishing the functional correlations means using software to define how each device must intervene following the events occurring in the system, for instance which lamp or group of loads must switch on when a card is inserted in the reader with pocket or a particular 1-way switch is pressed.
The operating mode of KNX appliances is also determined by the application selected from those available for that device and by the appropriate configuration of the relative operating parameters.

The KNX device applications are freely available on the website www.vimar.com.
The addresses and operating parameters are transferred to the various devices by connecting the PC to the KNX Bus via the KNX USB interface 01540 or IP 01547.1.

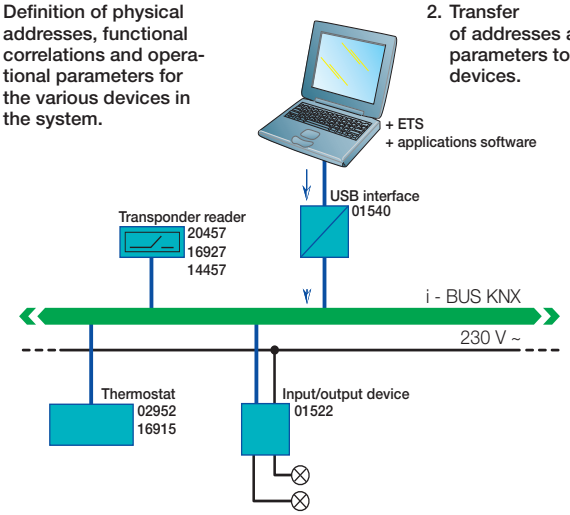
The ETS software uses simple graphical user interfaces that facilitate device configuration also in relation to the building layout. To purchase the ETS software, obtain a free "demo" version or receive more technical and commercial information we suggest you contact the KNX Association.

Vimar, thanks to its own network of service providers, offers the service of design, configuration and commissioning with ETS.

Configuration phases

1. **Definition of physical addresses, functional correlations and operational parameters for the various devices in the system.**

2. **Transfer of addresses and parameters to the devices.**



3. **At the end of the operations the PC can be removed,and, if necessary, reconnected only for functions of diagnostics, changes to the parameters, addresses and functional or expansional correlations of the system.**

ETS software window

Note.
In a Well-contact Suite system, when using the ETS project, there must be no groups with the same name: for example we need to differentiate "energy room 101" from "energy room 102". Creating an ETS project in compliance with this clause will enable the Well-contact Suite software to automatically distinguish between the group addresses it must display and the ones it must mask for each room, considerably facilitating the task of environment/room creation with Well-contact Suite.

FUNCTIONS

Supervision and control from PC

As already mentioned the KNX distributed intelligence systems also enable supervision and control at a higher level (centralized). The use of PCs and special software enables the centralization of the system's functions, but in no way jeopardizes their operation if the PC is switched off or malfunctions.

Well-contact Suite (WCS) software

To meet the needs of the various types of systems used by its customers, Vimar has created a family of software products for managing and supervising the Well-contact Plus system. The following table lists the six types of application.

Light: for managing a building with a maximum number of **15 environments*** from a single station. Five levels of password-activated access allow for customisable control. For example, the facility manager can access the complete system to supervise, edit parameters and program the functions, whereas the receptionist has a different password and only has access to some of these operations. Can be interfaced with only one Client (art. 01592).
* The term environment refers to a room, office or common area in the facility with an external and internal transponder card reader.

Basic: for managing a building with a maximum number of **50 environments** from a single station. Five levels of password-activated access allow for customisable control. For example, the facility manager can access the complete system to supervise, edit parameters and program the functions, whereas the receptionist has a different password and only has access to some of these operations. Can be interfaced with a maximum of one WCS Client 01592

Top: for controlling large hotels with a **potentially unlimited number of rooms and stations**. This application has 7 password levels and offers the use of the planner for supervising arrivals and departures. Can be interfaced with an infinite number of WCS Client stations 01592

Client: hotel application licence used to manage Light, Basic and Top systems from a second PC via connection to the network of the PC where the Light, Basic or Top application is installed. Used to manage bookings, check-ins and supervision at the same time.

Office: dedicated to offices and business/sales structures, it enables the user to manage the functions of a **potentially limitless number of environments** from one station. With 7 password levels, control can be targeted and secure. Can be interfaced with an infinite number of WCS Client Offices (art. 01594).

Client Office: Office application licence used to access the programme from a remote station via the network of the PC where Office is installed (art. 01593). Used for simultaneous supervision.

ERP: for interfacing with administration management software. Allows the ERP software to be used for making bookings, checking in and out and the subsequent automatic transfer to Light, Basic or Top applications which manage the Well-contact Plus system. Contact Vimar to verify the possibility of interfacing it with the required ERP software.

Suite Applications

The WCS software is used to carry out the following operations:
- management of bookings (hotel version);
- management of user records;
- management of the facility's staff records;
- management of user and staff accesses into the various environments of the facility: creation of the cards for the access control system, management of the transponder readers of the part of the system that deals with access control, creation of lists with access log;
- supervision of the automation system: climate control, activation of electric loads (lights ON/OFF, dimmer lights, relays,…), access control management, alarm management, creation of scenarios, scheduling of scenario activation, reaction of decision-making logic elements.

For the purposes of security management, the Well-contact Suite software adopts the following strategies:
- access to the software is allowed only for users previously configured in the software;
- seven levels of software access "privileges" to be associated with the software users;
- encrypted data communication between the system file server and client systems;
- encrypted "sensitive" data (e.g. software user passwords);
- encrypted data communication between the system and the card programmer;
- use of Mifare® Standard cards;
- readers and pockets can store up to 2000 different types of card at the same time. Well-contact Suite can manage a maximum of 999,999 cards with the following profiles:
  - 999,000 cards with "Guest" profile;
  - 499 cards with "Staff" profile;
  - 99 cards with "Maintenance Staff" profile;
  - 99 cards with "Security staff" profile;
  - 99 cards with "Installer" profile;
  - 99 cards with "Assistance staff" profile;
  - 99 cards with "Director" profile.

The main characteristic of the Well-contact Suite software is to automatically create graphic windows in the supervision section. These windows show all the areas in the hospitality facility with graphic symbols representing the main functions of the automation system devices in the various environments. The environments are divided up according to their use: bedrooms, common areas and technical areas. For each type of environment there are one or more of the following "theme views". A theme view is a representation of the environment highlighting a particular function of its devices.
The "theme views" envisaged in the Well-contact Suite software comprise:
- "Thermostats" view;
- "Guest in room" view;
- "Window open status" view;
- "Room cleaning status" view.

Well-contact Plus: building automation

Besides the theme views, a “summary view” is created automatically, in which the main data of the environment are shown.

The Well-contact Suite software automatically creates a window with a "detailed" view of the environment featuring the graphic symbols for its main functions. The types of functions presented automatically in the detailed view of the environment and their characteristics can be customised according to the user's specific needs.
In any case, the supervision windows created automatically by the Well-contact Suite software can be customized to satisfy the user’s requirements.

The Well-contact Suite software **enables users to view the alarm events created by the Well-contact Plus system**, send an alarm “reset” command to the system and create a log for these events. Lastly, different types of alarm can be defined together with the corresponding display priorities.

Via the **Client** licence (art. 01592) it is possible to **simultaneously manage a second PC** connected to the same network (bookings, check-in and check-out).

With the **ERP** licence (art. 01595) **it is possible to interface the most common ERP software** to the Well-contact Suite software.

Functions managed by the Suite

Card identification
Guest Room Check-in\Check-out
Management of Services and Privileges (creation of cards enabling services)
Access log and display
Stopping access to single rooms
Room booking
Displaying reserved, booked, occupied rooms, identification of guest presence
Displaying length of stay, day of departure
Checking PW of personnel with hourly and area limitation
Diversification of users (guests, service staff, etc.)
Viewing of different types of alarms and modifying the signalling status
Protection with unique Hardware Key for guest
Searching and exporting entry reports
Checking and managing transit through common areas
Advanced search functions (by text categories)
Displaying service requests
Managing the records of the guests and hotel staff
Guest log with any saved parameters
Supervision (temperatures, I/O, alarms, security, lights)
Guest management with Client-Server Logic on local area network or remotely via web
Levels of protection (password) for differentiated accesses
Seven levels of access “profiles” to be associated with the software users
Possibility of managing scenarios and commands of virtual devices

Supervision and control from App

Vimar has developed the **KNX By-web app** which, by connecting remotely to the **Web server** (art. 01545) in the Well-contact Plus automation system, is used to supervise the whole KNX home automation system from iPhone and iPod Touch.

Simple and intuitive icons are used to control – from a LAN Wi-Fi network at home or an Internet network when away from home – lights, roller shutters, automations; lighting and sound system control, as well as the control of electrical loads.
It is also possible to check the status of the installed devices at any time. With KNX By-web the user's interaction with the building is even stronger.

The App can **be downloaded free of charge** from Apple Store for iPhone and iPod touch with operating system iOS 6.0 or later.

Web server (art. 01545) connected to the router

Wi-Fi access point (art. 19195.M) connected to the router

Smartphone with KNX By-web app

AUTOMATION

Push button operated devices

The Well-contact Plus system push button device are essentially divided into the following categories:

- **Eikon Tactil home automation devices** with suitable for activating scenarios, or controlling dimmable lights and roller shutters;
- **universal home automation controls** for Eikon, Arké and Plana, customisable with button covers in the relative series, with 4 or 6 push buttons, for controlling lights, roller shutters and scenarios.

These devices allow services to be controlled by way of a logic connection with relay actuators connected to the services themselves; except in the case of scenarios, each device is connected logically to an actuator that must be selected according to the utility being controlled.

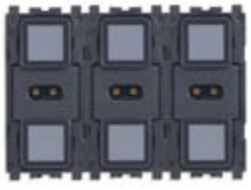
On this basis, the two categories mentioned are further divided into the following types of controls:

- Eikon Tactil home automation devices with 4 or 6 programmable push buttons;
- 2 or 3 rocker button controls;
- 2 or 3 rocker button controls with actuator;
- 2 or 3 rocker button controls with slat/roller shutter actuator.

With different types of controls available, installers have the greatest possible freedom in terms of configuration: for example, the actuator for operating a switched socket outlet can be associated directly with the push button, or if the distance between the push button and the socket outlet happens to be greater than that between the socket outlet and a junction box, the socket outlet can be connected to an actuator near the junction box.

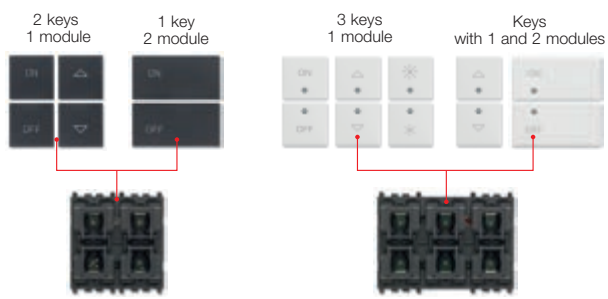
Controls

Home automation control 3-module universal



Home automation control Eikon Tactil

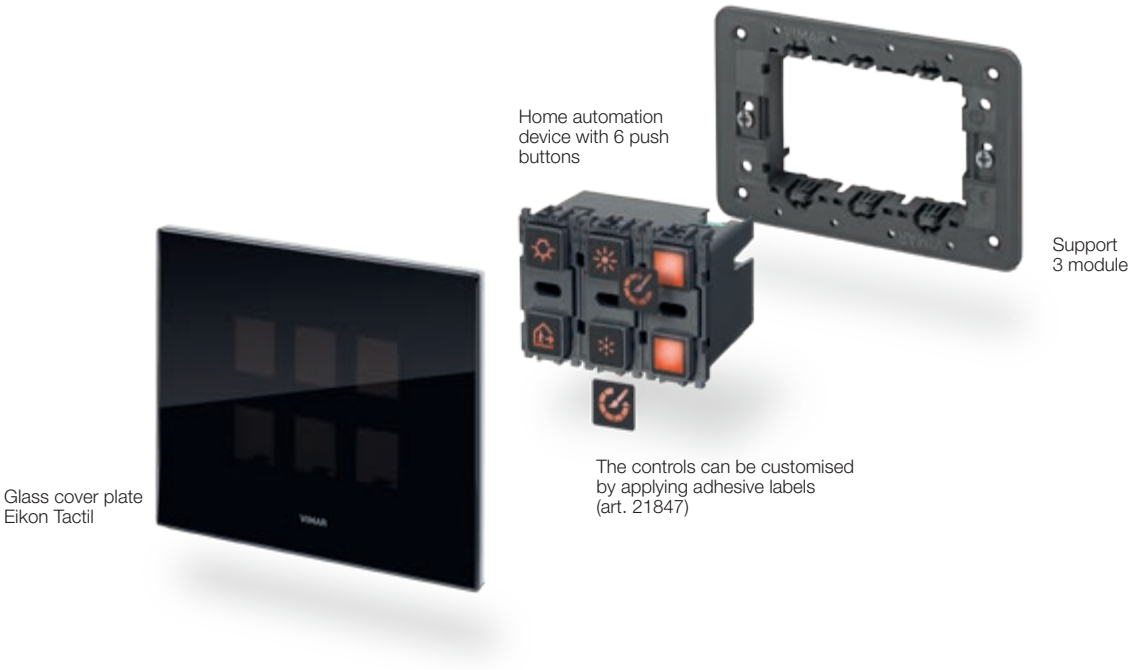
2 and 3 module devices to be completed with 1- 2 module keys



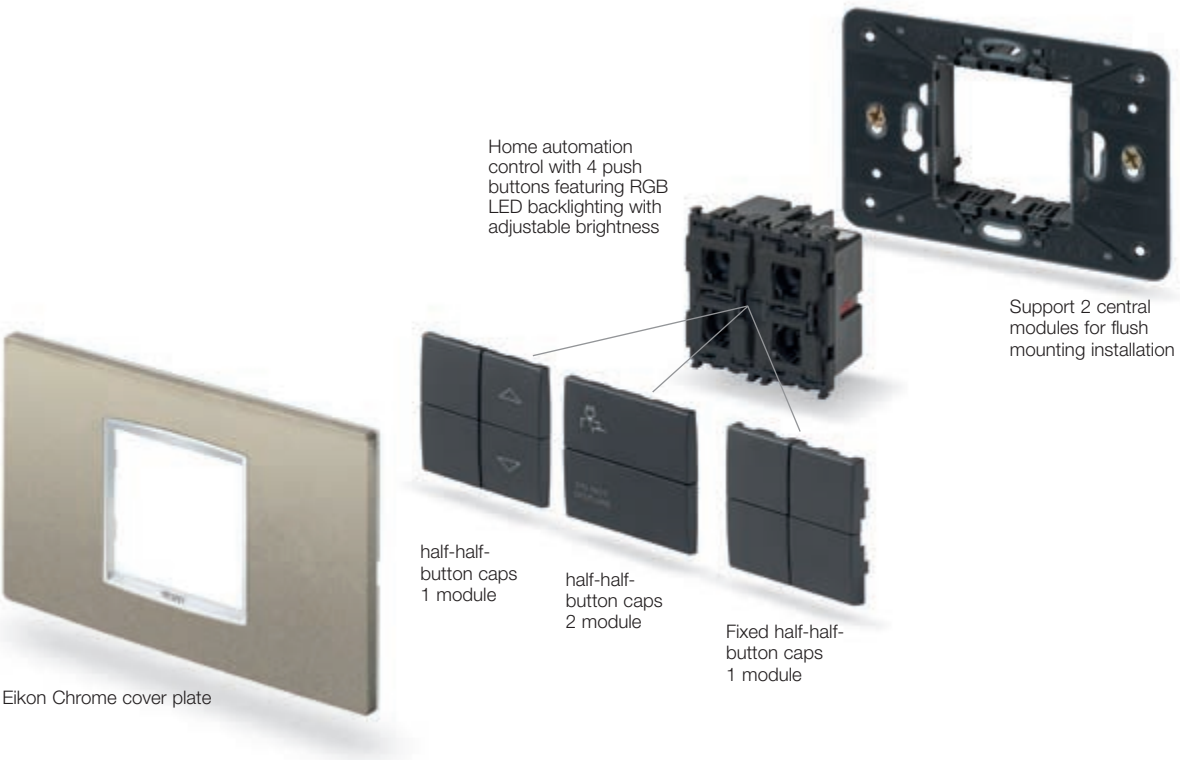
push button control 2 module

push button control 3 module

Examples of Eikon Tactil home automation control installation



Example of installation of 1 and 2 module half-half-button caps on universal controls for Eikon, Arké and Plana series



Note.
The simple half-half-button caps enable the user to identify the programmed push button, while the fixed half-half-button caps are used to exclude push buttons that are not yet configured.

Well-contact Plus: building automation

Supervision

21553.2
10" IP multimedia video touch screen for Due Fili Plus video door system and By-me system supervising by web server, supply voltage PoE or 12 Vdc

21665.11
Aluminium
Dimensions: 345x250 mm

21665.70
White diamond
Dimensions: 345x250 mm

21665.76
Black diamond
Dimensions: 345x250 mm

21848.1
Color touch screen, 4,3", Full Flat, for the control, 1 temperature sensor input, with built-in mounting frame for installation in 8-module mounting box, grey.
Depth: 40 mm

21848.1.B
Color touch screen, 4,3", Full Flat, for the control, 1 temperature sensor input, with built-in mounting frame for installation in 8-module mounting box, white.
Depth: 40 mm

21848.1.BN
Color touch screen, 4,3", Full Flat, for the control, 1 temperature sensor input, with built-in mounting frame for installation in 8-module mounting box, neutral.
Depth: 40 mm

Software for Well-contact Plus system management.
01589: Well-contact Suite Light
01590: Well-contact Suite Basic
01591: Well-contact Suite Top
01592: Well-contact Suite Client
01593: Well-contact Suite Office
01594: Well-contact Suite Client Office
01595: Additional software for interfacing with existing management system

01597
USB spare key for Well-contact Suite software

01993
Hardware interface for programming By-me serial devices and Well-contact Plus touch screens + configuring By-me systems via Bus with RJ11 jack.
It is necessary the EasyTool Professional software and Well-contact Plus touch screens configuring software

In/out devices

01514
Interface with 2 input or output programmable channels for LEDs,
Dimensions: 39,1x40x12,3 mm

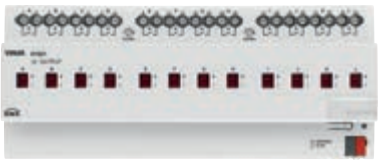
01515
Interface with 4 input or output programmable channels for LEDs,
Dimensions: 39x40x12 mm

01510
4-channel digital input device, programmable for NO, NC and 120-230 V~ contacts,
2 x 17,5 mm modules

01522
Input/output device, 4 NO 16 A 250 V~ relay outputs, 4 inputs for NO contacts,
4 x 17,5 mm modules

Actuators

01523
Actuator with 4 NO 16 A 250 V~ relay outputs, 4 x 17,5 mm modules



01521
Actuator with 12 10 A 250 V~ 50/60 Hz relay outputs for fluorescent lamps,
12 x 17,5 mm modules

01524
Actuator for 2 roller shutters, 16 A 250 V~ relay outputs, 4 x 17,5 mm modules

01525
Actuator for 8 roller shutters, 6 A 230 V~ 50/60 Hz relay outputs, 8 x 17,5 mm modules

01535
Solenoid valve actuator, 6 230 V~ 0,5 A outputs, local control buttons, 4 x 17,5 mm modules

01536
Actuator, 4 0-10 V or (0)4-20 mA analog-outputs, 4 x 17,5 mm modules

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Supervision

Dimmers

01526
Dimmer 230 V~ 50/60 Hz for 2x300 W incandescent lamps, 2x300 VA ferromagnetic transformers, 2x300 VA electronic transformers, 4 x 17,5 mm modules

01528
Dimmer, 2 inputs for 01530, 2 NO 16 A 250 V~ relay outputs, 2 1-10 V outputs, 4 x 17,5 mm modules

Interfaces and Gateway

01547.1
IP interface, KNX, 2 x 17,5 mm modules

01542
DALI KNX gateway, 1 channel for 64 lamps which can be grouped in 16 groups, 4 x 17,5 mm modules

01544
KNX DALI gateway, 8-channel for 16 lamps per channel, 6 x 17,5 mm modules

01540
USB interface, KNX B-type, 2 x 17,5 mm modules

01545
Web server for local and remote control of the KNX system, 8 x 17,5 mm modules

App By-web**

Additional devices

01500.2
Power supply with Bus 30 Vdc 320 mA output, supply voltage 120-240 V~ 50/60 Hz, with decoupling coil, 4 x 17,5 mm modules

01501.2
Power supply with Bus 30 Vdc 640 mA output, 30 Vdc auxiliary output, supply voltage 120-240 V~ 50/60 Hz, with decoupling coil, 4 x 17,5 mm modules

▲ 01831.1
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1 x 17,5 mm module

01831
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1,5 x 17,5 mm modules

01504.2
Line coupler, 2 x 17,5 mm modules

16887
Safety transformer, 230/12-24 V~ (SELV), 24 VA, 3 x 17,5 mm modules

KNX cables

01890.E
KNX system cable, 2x2x0,8 mm cable, LSZH sheath, CPR Eca class, according to KNX standard, suitable for I category cables (U0 = 400 V), green - 100 m

01890.C
KNX system cable, 2x2x0,8 mm cable, LSZH sheath, CPR Cca s1b d1 a1 class, according to KNX standard, suitable for I category cables (U0 = 400 V), green - 100 m

** App available on Vimar site and Apple and Google Play store.

EIKON | ARKÉ | PLANA

Control and functions

Eikon Tactil home&building automation controls

21840
4 independently programmable buttons for single controls or scenes, KNX standard - 2 modules.
Depth: 38 mm

21860
6 independently programmable buttons for single controls or scenes, KNX standard - 3 modules.
Depth: 38 mm

21847
8 stickers sheets with symbols and words for customization of standard function for Eikon Tactil controls

▲ 21847.1
4 sheets with labels featuring symbols and wording for external/internal hotel room or cabin functions for Eikon Tactil controls

▲ 21847.2
4 stickers sheets with symbols and words for customization of standard function for Eikon Tactil controls

Eikon, Arké and Plana home&building automation controls

01580
4-button
- 2 modules.
Depth: 20 mm

01581
4-button + NO 16 A 120-240 V~ 50/60 Hz relay output
- 2 modules
Depth: 37 mm

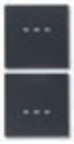
01582
4-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor
- 2 modules
Depth: 37 mm

01585
6-button
- 3 modules.
Depth: 20 mm

01586
6-button + NO 16 A 120-240 V~ 50/60 Hz relay output
- 3 modules
Depth: 37 mm

01587
6-button + actuator for laths orientation, with relay output for cosφ 0,6 2 A 120-240 V~ 50/60 Hz motor
- 3 modules
Depth: 37 mm

Interchangeable half-buttons for home&building automation - 1 module



20751
No symbol, customizable[1], grey

20751.B
No symbol, customizable[1], white

20751.N
No symbol, customizable[1]. Next

19751
No symbol, customizable[1], grey

19751.B
No symbol, customizable[1], white

19751.M
No symbol, customizable[1], Metal

14751
No symbol, customizable[1]. white

14751.SL
No symbol, customizable[1]. Silver

20751.0
Fixed, grey

20751.0.B
Fixed, white

20751.0.N
Fixed, Next

19751.0
Fixed, grey

19751.0.B
Fixed, white

19751.0.M
Fixed, Metal

14751.0
Fixed, white

14751.0.SL
Fixed, Silver

20751.1
ON/OFF symbols, grey

20751.1.B
ON/OFF symbols, white

20751.1.N
ON/OFF symbols, Next

19751.1
ON/OFF symbols, grey

19751.1.B
ON/OFF symbols, white

19751.1.M
ON/OFF symbols, Metal

14751.1
ON/OFF symbols, white

14751.1.SL
ON/OFF symbols, Silver

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Well-contact Plus: building automation

EIKON	ARKÉ	PLANA

Control and functions

20751.2
Arrows symbols, grey

20751.2.B
Arrows symbols, white

20751.2.N
Arrows symbols, Next

19751.2
Arrows symbols, grey

19751.2.B
Arrows symbols, white

19751.2.M
Arrows symbols, Metal

14751.2
Arrows symbols, white

14751.2.SL
Arrows symbols, Silver

20751.3
Regulation symbols, grey

20751.3.B
Regulation symbols, white

20751.3.N
Regulation symbols, Next

19751.3
Regulation symbols, grey

19751.3.B
Regulation symbols, white

19751.3.M
Regulation symbols, Metal

14751.3
Regulation symbols, white

14751.3.SL
Regulation symbols, Silver

Interchangeable half-buttons for home&building automation - 2 modules

20752
No symbol, customizable[1], grey

20752.B
No symbol, customizable[1], white

20752.N
No symbol, customizable[1], Next

19752
No symbol, customizable[1], grey

19752.B
No symbol, customizable[1], white

19752.M
No symbol, customizable[1], Metal

14752
No symbol, customizable[1], white

14752.SL
No symbol, customizable[1], Silver

20752.1
ON/OFF symbols, grey

20752.1.B
ON/OFF symbols, white

20752.1.N
ON/OFF symbols, Next

19752.1
ON/OFF symbols, grey

19752.1.B
ON/OFF symbols, white

19752.1.B
ON/OFF symbols, Metal

14752.1
ON/OFF symbols, white

14752.1.SL
ON/OFF symbols, Silver

20752.2
Arrows symbols, grey

20752.2.B
Arrows symbols, white

20752.2.N
Arrows symbols, Next

19752.2
Arrows symbols, grey

19752.2.B
Arrows symbols, white

19752.2.M
Arrows symbols, Metal

14752.2
Arrows symbols, white

14752.2.SL
Arrows symbols, Silver

20752.3
Regulation symbols, grey

20752.3.B
Regulation symbols, white

20752.3.N
Regulation symbols, Next

19752.3
Regulation symbols, grey

19752.3.B
Regulation symbols, white

19752.3.M
Regulation symbols, Metal

14752.3
Regulation symbols, white

14752.3.SL
Regulation symbols, Silver

[1] For the customisation of the buttons, see page 198

Control and functions

Idea home automation controls

16840
4 independent push buttons, KNX standard, visible in darkness, grey - 2 modules. Depth: 19,5 mm

16840.B
4 independent push buttons, KNX standard, visible in darkness, white - 2 modules. Depth: 19,5 mm

Four half-buttons for Idea devices - 1 module

16841
No symbol, grey

16841.B
No symbol, white

16841.0
O symbol, grey

16841.0.B
O symbol, white

16841.1
I symbol, grey

16841.1.B
I symbol, white

16841.2
I O symbol, grey

16841.2.B
I O symbol, white

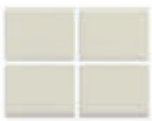
16841.3
Arrows symbol, grey

16841.3.B
Arrows symbol, white

16841.4
Regulation symbols, grey

16841.4.B
Regulation symbols, white

16843
Fixed, no symbol, grey



16843.B
Fixed, no symbol, white

Two half-buttons for Idea devices - 2 modules

16842
No symbol, grey

16842.B
No symbol, white

16842.0
O symbol, grey

16842.0.B
O symbol, white

16842.1
I symbol, grey

16842.1.B
I symbol, white

16842.2
I O symbol, grey

16842.2.B
I O symbol, white

16842.3
Arrows symbol, grey

16842.3.B
Arrows symbol, white

16842.4
Regulation symbols, grey

16842.4.B
Regulation symbols, white

16844
Fixed, no symbol, grey

16844.B
Fixed, no symbol, white

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON | ARKÉ | PLANA

Temperature control

Touch screen thermostats

02952
Touch screen thermostat for ambient temperature control of 2 independent zones, KNX standard, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PI mode, 1 NO relay output 4 A 24 V~, 1 input for wired temperature sensor or electronic temperature sensor, 1 programmable digital input, RGB LED backlighting, can be interfaced with actuator with KNX proportional analogue outputs to make a class V modulating room thermostat (contribution 3%), black - 2 modules. Depth: 37 mm

02952.B
Touch screen thermostat for ambient temperature control of 2 independent zones, KNX standard, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PI mode, 1 NO relay output 4 A 24 V~, 1 input for wired temperature sensor or electronic temperature sensor, 1 programmable digital input, RGB LED backlighting, can be interfaced with actuator with KNX proportional analogue outputs to make a class V modulating room thermostat (contribution 3%), white - 2 modules. Depth: 37 mm

02952.BN
Touch screen thermostat for ambient temperature control of 2 independent zones, KNX standard, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PI mode, 1 NO relay output 4 A 24 V~, 1 input for wired temperature sensor or electronic temperature sensor, 1 programmable digital input, RGB LED backlighting, can be interfaced with actuator with KNX proportional analogue outputs to make a class V modulating room thermostat (contribution 3%), neutral - 2 modules. Depth: 37 mm

Idea thermostats

16915
Thermostat for ON/OFF control of 2 independent zones, KNX standard, class I temperature control device (contribution 1%),1 NO relay output 4 A 24 V~, 1 input for temperature sensor compatible with 20432, 19432 or 14432, 1 programmable digital input, grey - 2 modules. Depth: 36,5 mm

16915.B
Thermostat for ON/OFF control of 2 independent zones, KNX standard, class I temperature control device (contribution 1%),1 NO relay output 4 A 24 V~, 1 input for temperature sensor compatible with 20432, 19432 or 14432, 1 programmable digital input, white - 2 modules. Depth: 36,5 mm

Temperature sensors

20432
Electronic temperature sensor, 1 output, grey
Depth: 24,4 mm

20432.B
Electronic temperature sensor, 1 output, white
Depth: 24,4 mm

20432.N
Electronic temperature sensor, 1 output, Next
Depth: 24,4 mm

02965.1
Wired temperature sensor, NTC 10 kΩ, operating temperature -40 °C / +120 °C, IP67, 3 m cable length

19432
Electronic temperature sensor, 1 output, grey
Depth: 24,4 mm

19432.B
Electronic temperature sensor, 1 output, white
Depth: 24,4 mm

19432.M
Electronic temperature sensor, 1 output, Metal
Depth: 24,4 mm

14432
Electronic temperature sensor, 1 output, white
Depth: 23,4 mm

14432.SL
Electronic temperature sensor, 1 output, Silver.
Depth: 23,4 mm

Temperature control

Weather station

01546
Weather station, KNX standard, power supply 12-32 Vdc or 12-24 Vac

Base with straps supplied

Presence detectors and light sensor

01527
IR presence detector, 360° motion range, ON/OFF and adjustment of lighting, heating, air conditioning, ventilation, 1-1000 Lux adjustable brightness range, KNX standard, for ceiling installation.
Dimensions: 80x80x45 mm

01527.S
Adapter for 01527 detector ceiling installation

01529.1
IR presence detector, 360° motion range, for ON/OFF lighting, 1-1000 Lux adjustable brightness range, KNX standard, for ceiling installation.
Dimensions: 91x91x45 mm

01529.1.S
Adapter for 01529.1 detector ceiling installation

01530
Light sensor for dimmer 01528, KNX standard, ceiling installation.
Dimensions: 52,3x54,3x19,3 mm

Detectors

20850
Passive infrared motion detector, KNX standard, grey - 2 modules.
Depth: 26,5 mm

20850.B
Passive infrared motion detector, KNX standard, white - 2 modules.
Depth: 26,5 mm

19850
Passive infrared motion detector, KNX standard, grey - 2 modules.
Depth: 19,7 mm

19850.B
Passive infrared motion detector, KNX standard, white - 2 modules.
Depth: 19,7 mm

16850
Passive infrared motion detector, KNX standard, grey - 2 modules.
Depth: 19,5 mm

16850.B
Passive infrared motion detector, KNX standard, white - 2 modules.
Depth: 19,5 mm

14850
Passive infrared motion detector, KNX standard, white - 2 modules.
Depth: 19 mm

14850.SL
Passive infrared motion detector, KNX standard, Silver - 2 modules.
Depth: 19 mm

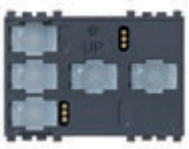
20850.N
Passive infrared motion detector, KNX standard, Next - 2 modules.
Depth: 26,5 mm

19850.M
Passive infrared motion detector, KNX standard, Metal - 2 modules.
Depth: 19,7 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Access control

Eikon Tactil transponder card reader for outside the room installation



21457
Transponder card reader for outside the room installation, KNX standard, 2 NO 4 A 24 V~ relay output, 2 inputs, supply voltage 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), to complete with 3-module **Eikon Tactil** cover plate - 3 modules. Supplied without card. Depth: 36,5 mm

21666.70
Electronic plate for 21457, white diamond

21666.71
Electronic plate for 21457, aqua

21666.73
Electronic plate for 21457, pearl grey

21666.76
Electronic plate for 21457, black diamond

▲ **21457.1**
Transponder card reader for outside the room installation, KNX standard, 2 NO 4 A 24 V~ relay output, 2 inputs, supply voltage 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), to be completed with **Eikon Tactil** transponder 3-module room number cover plate - 3 vertical modules. Supplied without card. Depth: 36,5 mm

▲ **21666.70.01**
Electronic plate for 21457.1, white diamond

▲ **21666.71.01**
Electronic plate for 21457.1, aqua

▲ **21666.76.01**
Electronic plate for 21457.1, black diamond

▲ **21846**
8 sheets with adhesive labels with numbers for room numbering to customise Eikon Tactil cover plates

EIKON	ARKÉ	IDEA	PLANA

Access control

20457
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules.
Supplied without transponder card.
Depth: 37 mm

20457.TR
As above, tropicalised

19457
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules.
Supplied without transponder card.
Depth: 37 mm

19457.TR
As above, tropicalised

16927
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules.
Supplied without transponder card.
Depth: 36,5 mm

14457
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules.
Supplied without transponder card.
Depth: 37 mm

14457.TR
As above, tropicalised

20457.B
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules.
Supplied without transponder card.
Depth: 37 mm

20457.TR.B
As above, tropicalised

19457.B
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules.
Supplied without transponder card.
Depth: 37 mm

19457.TR.B
As above, tropicalised

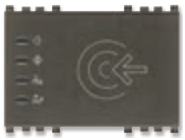
16927.B
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules.
Supplied without transponder card.
Depth: 36,5 mm

14457.SL
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Silver - 3 modules.
Supplied without transponder card.
Depth: 37 mm

14457.TR.SL
As above, tropicalised

20457.N
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Next - 3 modules.
Supplied without transponder card.
Depth: 37 mm

20457.TR.N
As above, tropicalised



19457.M
Transponder card reader for installation outside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Metal - 3 modules.
Supplied without transponder card.
Depth: 37 mm

19457.TR.M
As above, tropicalised

01598
Programmable transponder card, back side customizable[1]

01835.H
Programmable and customizable transponder card[1].
Not suitable with Well-contact Plus system.

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	ARKÉ	IDEA	PLANA

Access control

20453
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules. Depth: 37 mm

19453
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules. Depth: 37 mm

16923
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey - 3 modules. Depth: 36,5 mm

14453
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules. Depth: 36,5 mm

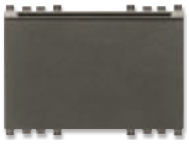
20453.B
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules. Depth: 37 mm

19453.B
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules. Depth: 37 mm

16923.B
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white - 3 modules. Depth: 36,5 mm

14453.SL
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Silver - 3 modules. Depth: 36,5 mm

20453.N
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Next - 3 modules. Depth: 37 mm



19453.M
Transponder card reader with vertical pocket for installation inside rooms, KNX standard, 2 NO 4 A 24 V~ relay outputs, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Metal - 3 modules. Depth: 37 mm

20450
Transponder card reader/programmer, in 4-module table mounting box, grey.
To complete with 4-module Eikon cover plate.
Dimensions: 148,6x79x9x88,8 mm

19450
Transponder card reader/programmer, in 4-module table mounting box, grey.
To complete with 4-module Arké cover plate.
Dimensions: 148,6x82,6x9x90,3 mm

16920
Transponder card reader/programmer, in 3-module table mounting box, grey. To complete with 3-module Idea Classica cover plate.
Dimensions: 121,6x81,6x9x111 mm

14450
Transponder card reader/programmer, in 4-module table mounting box, white.
To complete with 4-module Plana cover plate.
Dimensions: 142,5x78,4x9x89,2 mm

20450.B
Transponder card reader/programmer, in 4-module table mounting box, white.
To complete with 4-module Eikon cover plate.
Dimensions: 148,6x79x9x88,8 mm

19450.B
Transponder card reader/programmer, in 4-module table mounting box, white.
To complete with 4-module Arké cover plate.
Dimensions: 148,6x82,6x9x90,3 mm

16920.B
Transponder card reader/programmer, in 3-module table mounting box, white. To complete with 3-module Idea Classica cover plate.
Dimensions: 121,6x81,6x9x111 mm

[1] For the customisation, see page 201

SOLUTIONS FOR HOSPITALITY.

Comfort, efficiency and design for a pleasant stay.

Each hotel has specific needs to be met during the design, construction, management and maintenance phases. Our solutions are designed to optimise and automate the functions of any hotel, regardless of its dimension: from large complexes to smaller independent hotels and B&Bs. Built to deliver comfort, safety and energy efficiency, they also offer the very best Italian design and ample scope for customisation.

Status and presence of the guest in the room.

Solutions for identifying the status of the room are used to see whether the guest is in the room and allow guests to set a “Do not disturb” notice or request that the room be cleaned.

Developed in partnership with:

CISA AGB

Aesthetic coordination with the Eikon, Arké and Plana series.

From Eikon which, with its four different characters - Tactil, Evo, Chrome and Total Look - represents an authentic system that blends in with the most sophisticated styles, to Arké, which plays a leading role in younger and more contemporary living styles. And Plana, ideal for minimalist environments with a fresh, simple feel.

Special controls.

In addition to the door bell function, the hotel push button has two pilot lights, “Do Not Disturb” and “Please Clean” for communicating the client’s requests outside the room; it can also be customised with the room number.

Access control.

The range includes stand-alone solutions with card reader/ programmer for each access or Bus solutions with desktop programmer, readers and actuators, used to create safe, reliable and flexible systems in small hospitality facilities, such as B&Bs, hostels, residences, camp-sites or fitness centres.

Management via software.

The Bus-mounted access control system offers a range of technical solutions with different levels of complexity designed to guarantee the ideal solution for any type of need. The system components are designed to be programmed via software, which is supplied by Vimar with the smart card desktop configurator. Both cards and readers can be programmed with different modes directly from a PC.

Aesthetic coordination.

The Bus-mounted access devices are available for the Eikon, Idea and Plana series.

Room automation.

The By-me module with 9 inputs and 8 outputs for room automation is quick and easy to install; its Plug&Play installation mode means that it requires no programming: simply connect the device and the room is instantly automated. With 2 specific pre-configurations for the hotel room: the "Climate control" configuration which, using simple logics, acts on the fan-coil and temperature to prevent pointless energy wasting due to the air conditioning being left on or windows left open while the guest is not in the room, and the "Lights" configuration, used to create light scenarios when the guests enter/leave the room.

Typical system: hotel room with lights, climate control and landing indicator management using multi-function modules for room automation.

The stand-alone devices for hospitality facilities are easy to install and already pre-configured with energy-saving functions used for the smart management of lights, climate control, alarms and landing indicators in the rooms of any hospitality facility.

The example shows a room with:

- a pilot light outside the room indicating "Do Not Disturb" (art. 14386.B) and a red pilot light (art. 14387.R) signalling a bathroom alarm;
- inside it has a 1-way switch with vertical pocket (art. 14465) for activating the utilities and a touch thermostat (art. 02950) with slide switch (art. 14095) for controlling the temperature and fancoil speed. The headboard has two flush-mounting lights (art. 02662), light push buttons (art. 14010.0 + 14021.L) and "Do Not Disturb" push buttons (art. 14010.0 + 14026.DND) for activating the pilot light outside the room, and finally a switch (art. 14060) for raising/lowering the roller shutters;
- in the bathroom, the push button 14008 switches on the towel heater.
- the electrical panel has two multi-function modules for DIN rail with 9 inputs and 8 outputs (art. 01470.1), set to manage the room comfort and energy saving, with pre-programmed logics such as switching off the heating when the window is open or switching off the lights and climate control when nobody is in the room. It also manages the bathroom alarm, which switches on the red pilot light (art. 14387.R) in the corridor, and the window contact which switches off the heating when the window is open.

Electronic badge 1-way switch, with vertical pocket for activating the utilities in the room.

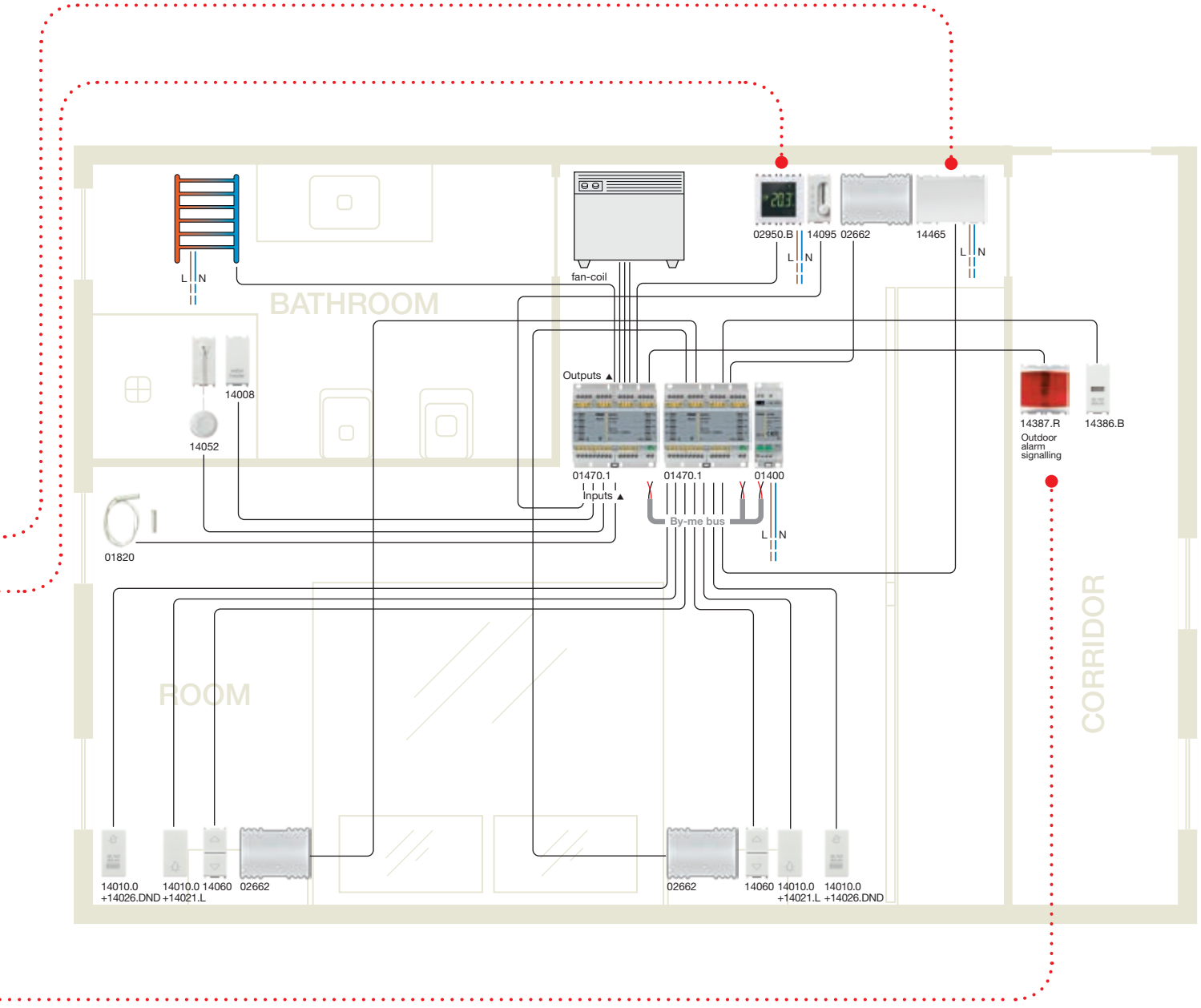
Touch screen thermostat and slide switch for controlling the fan-coil speed.

Pilot lights.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: hotel room with lights, climate control and landing indicator management using multi-function modules for room automation.



By-me Bus Power supply 230 V~ Wired connection

Typical system: B&B with five rooms and Bus access control system with stand-alone room status signalling.

The Bus access control system is simple to install and configure and lets you manage access to small facilities such as B&Bs, hotels, offices, gyms, etc.

The example illustrates a standard solution for a B&B with five guest rooms.

- Outside the rooms, smart card readers 20471 are installed and connected to the actuator 20472. Upon inserting the card, this opens the electrical lock, providing access to the single rooms.
- Inside the rooms a 1-way switch with vertical pocket 20465 is installed, which activates the utilities (lights and power socket outlets) when the smart card is inserted.
- In the reception, a PC connected via USB to the smart card configurator on a tilted table-mounting box enables the user to program the cards and then access the rooms.
- In addition, outside the rooms, a special push button is installed with two pilot lights ("Do Not Disturb" and "Please Clean") which signal to the cleaning staff whether the guest is in the room or whether they can enter and tidy up the room. The two warning lights can be activated via two controls in the room, customized with the same symbols as the lights.
- A touch screen thermostat is installed in the reception and in the various rooms; each thermostat is connected to a magnetic contact that detects when the window is opened. If the window stays open, the thermostat switches to night-time reduction mode, to save energy.

Special push button with two pilot lights and door bell.

Switches for activating the two pilot lights "Do Not Disturb" and "Please Clean" for the special push button installed outside the room.

Switch with vertical pocket hosting a smart card that is inserted to turn on the utilities.

Smart card reader/programmer.

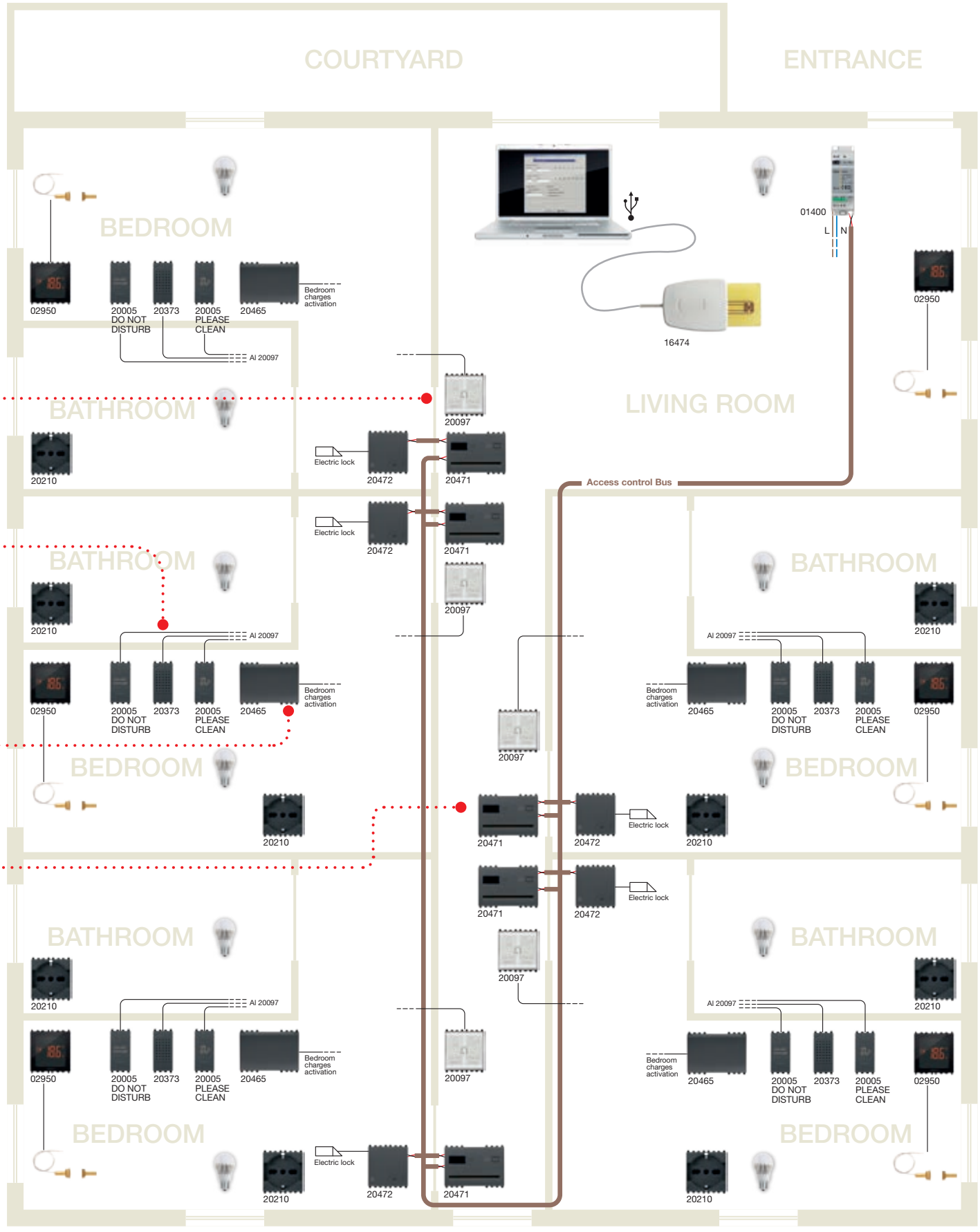
What to do:

Access configuration is possible in two modes:

1. Setting DIP switches on the reading heads: in this case the smart card can save 15 randomly generated codes in 15 separate addresses, at the time of programming, with 4.29 billion combinations for each one of them. By using 4 DIP switches, located on the back of the reader/programmer, you can select the desired address. This allows the smart card to be paired with 15 different addresses (or accesses). Multiple readers can have the same address and the same code: in this case multiple accesses can be enabled using a single address. Configuration occurs via the MASTER card.
2. Using the PC and the special serial configurator 16474: in this case the smart card can store up to 14 access codes. A MASTER smart card is used for "Relay pairing" and for "IrDA port activation"; the other functions are all managed by software.

Smart card for serial link to PC

Typical system: B&B with five rooms and Bus access control system with stand-alone room status signalling.



Access control Bus Power supply 230 V~ Wired connection

Typical system: hotel with stand-alone access control system on Cisa/AGB electronic handle, Vimar energy saving pocket and stand alone room status signalling.

The example shows the use of electronic NFC/RFID transponder card readers for hotels developed in partnership with Cisa and AGB and compatible with electronic hotel solutions supplied by companies specialising in door access control systems (electronic handles).
The device recognises the presence of a guest (GUEST) or staff member (STAFF) in the room, depending on the profile written on the transponder card used to access the room by the Cisa or AGB software. The reader can thus control its two relay outputs connected to the room's electrical system in different ways.
In this way the electrical system in the room can be activated/deactivated wholly or partly, according to the type of access (GUEST or STAFF).
Moreover, Eikon Tactil stand-alone electronic units are installed inside and outside the rooms; these are specific for hotel applications and are used to view the room status and the guest's requests, with intuitive, back-lit icons.

Switch with vertical pocket with smart card inserted

Electronic unit inside the room

Electronic unit outside the room

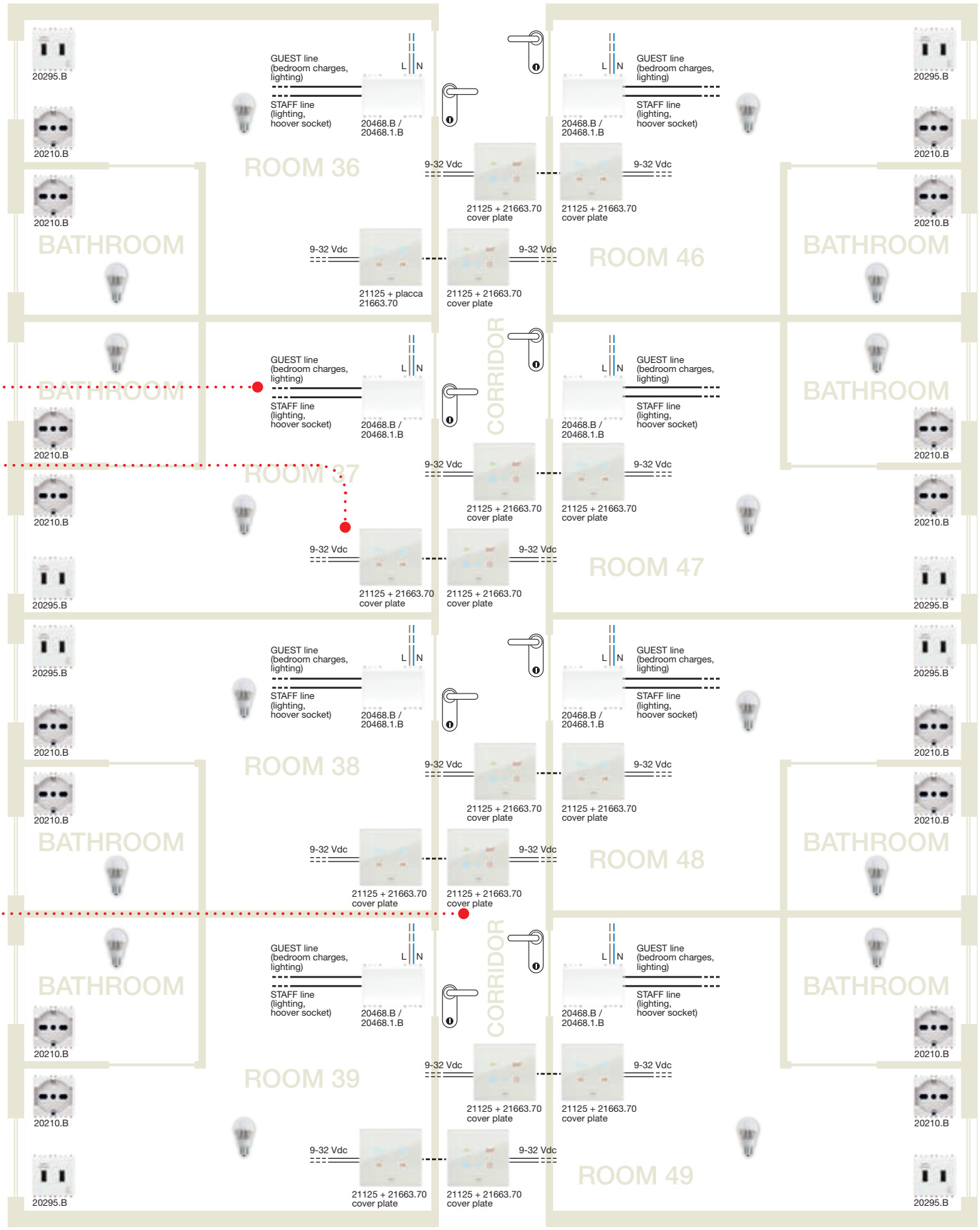
Developed in partnership with:

CISA AGB

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

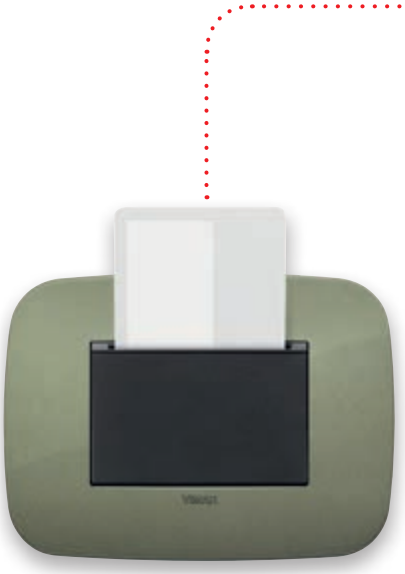
Typical system: hotel with stand-alone access control system on Cisa/AGB electronic handle, Vimar energy saving pocket and stand alone room status signalling.



Power supply 230 V~ — Wired connection — Power supply 9-32 Vdc

Typical system: hotel with home automation system Well-contact Plus KNX integrated with access systems on Cisa/AGB electronic handle.

The example shows a Well-contact Plus KNX home automation system in a hotel integrated with Cisa/AGB electronic lock systems. In each room, the lights and roller shutter automation is managed by KNX 01581 controls with on-board actuator; the device with 4 inputs and 4 outputs for DIN rail 01522 is used to manage the minibar load and the room service call button, to signal if the door is opened and control the fan-coil motor.
The KNX touch screen thermostat (02952) controls the temperature in the room and, as it is connected to the window contact (01820) that signals if the window is open, it automatically switches off the heating to ensure greater energy saving.
The electronic NFC/RFID transponder card reader (19468/19468.1) communicates with the KNX system via a retrofit interface (01515), indicating the presence in the room of a guest or staff member, according to the profile written on the card.
The whole KNX system is monitored from reception using a PC with Well-contact Suite software installed, while the accesses are managed by the AGB/Cisa system.



AGB/CISA RFID pocket.

KNX touch screen thermostat.

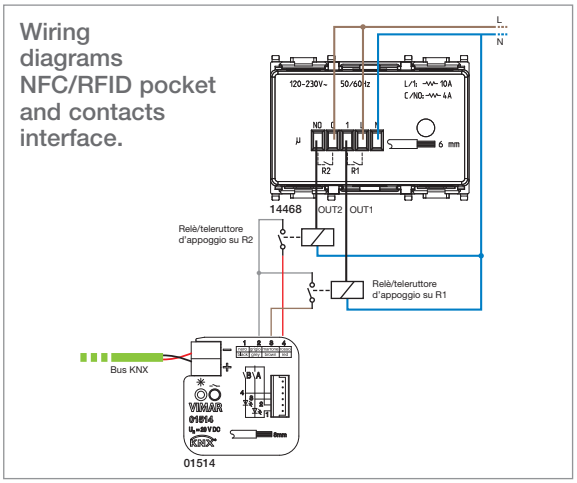
KNX home automation controls.

Developed in partnership with:

CISA AGB

NOTE.
The information used to manage the accesses with Cisa/AGB software and programmer is written on the Cisa/AGB card. The Vimar programmer can be used on the same card, so that the user can use just one card.
Possibility to use mixed Cisa/Vimar or AGB/Vimar external readers.

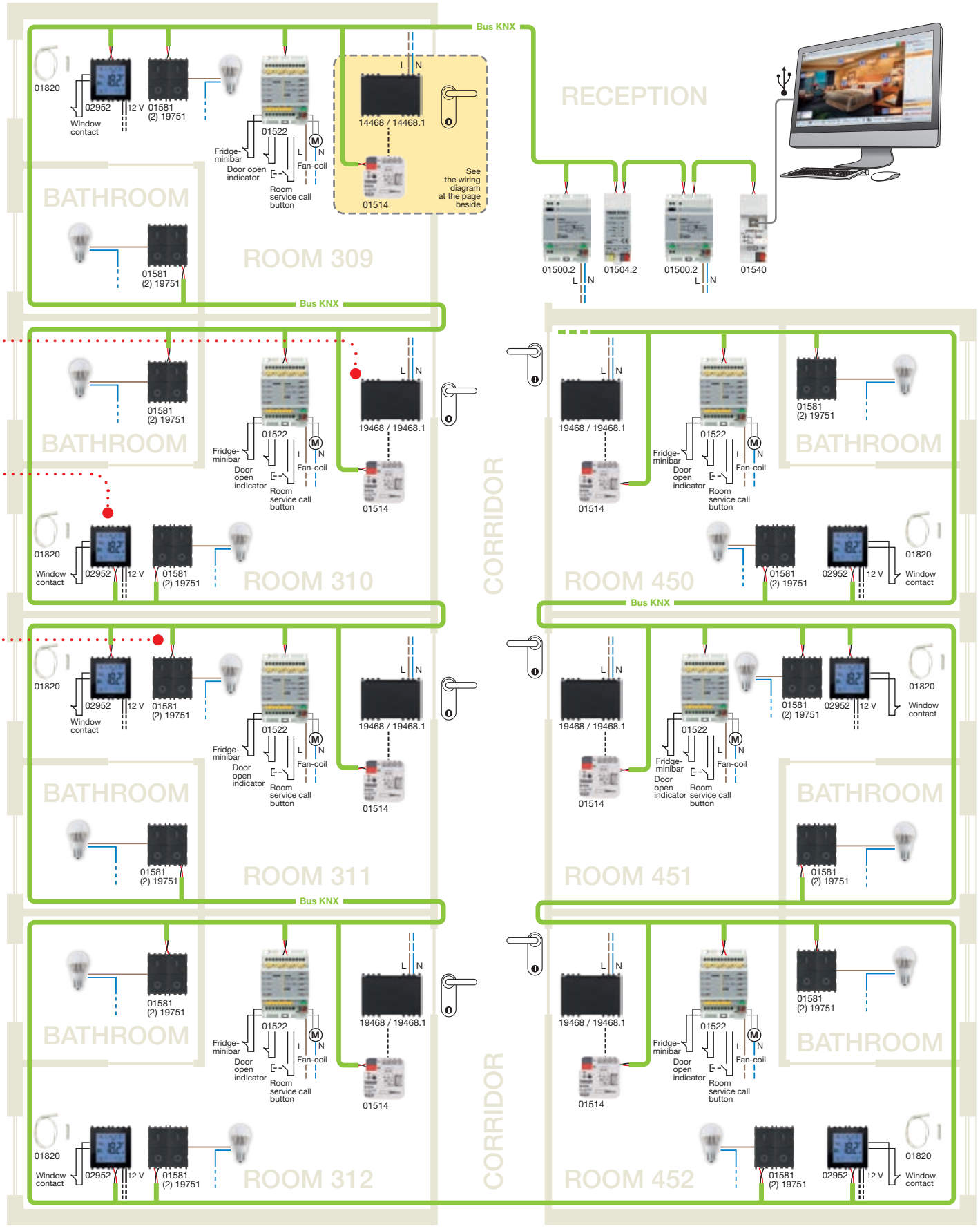
Wiring diagrams NFC/RFID pocket and contacts interface.



What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: hotel with Well-contact Plus KNX home automation system integrated with access systems on Cisa/AGB electronic handle.



SOLUTIONS FOR HOSPITALITY

SOLUTIONS

The access control on Bus line is used to create safe, reliable and flexible utility management systems for small hospitality facilities, such as B&Bs, hostels, residences, camp-sites or fitness centres.
Available for the Eikon, Idea and Plana series, the system offers a range of technical solutions with different levels of complexity, to guarantee the ideal solution for any type of need.

Access controls on Bus line with management via software

The components of the access control system on Bus line with smart card are designed to be programmed via software. Using a specific Vimar software (supplied with the smart card configurator 20473, 16473 or 14473) it is possible to configure the smart cards in different operating modes: card always active, card with expiry, card active in time periods and card active with decremental number of accesses.
Having set the operating parameters, the smart cards are programmed using the configurator, a 4-module device installed in a table mounting box, connected to the office PC via USB.
In this operating mode, the readers are not programmed via the dip switch on each device but by using the office PC to transfer the data via cable using a specific Vimar serial interface (RS232 connector, cable and smart card connected to one other). The same programming can be performed in wireless mode via the infra-red port on the front of the reader.

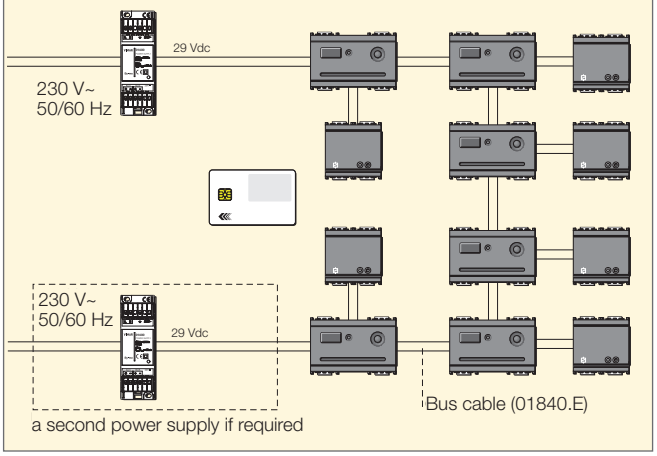
This system is used for **advanced applications,** for example:
- cards with expiry are suitable for the management of hotels, camp-sites and residences; guests can only use them for the agreed time they spend at the facility, after which they become unusable;
- cards active in time periods are used to manage access to fitness centres, gyms, swimming pools, etc.;
- cards with decremental number of accesses can be used for a set number of times in car parks, gyms, beauty farms. They can be topped up, and are therefore a dynamic tool for continuous use over time.

The software can be installed in the following operating systems:
PC: Windows XP®, Windows Vista®, Windows 7®, Windows 8® at 32/64 bit and Linux® (with kernel versions of at least 2.2.12).

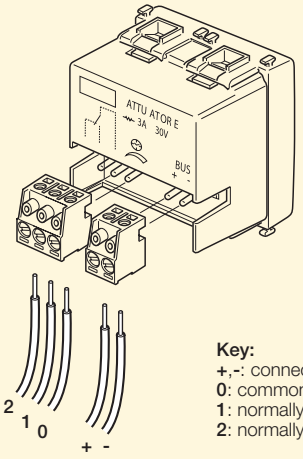
Solution on Bus line and access with smart card

Solution consisting of a 3-module smart card reader/programmer and a 2-module actuator connected via Bus to the reader/programmer and installed in the controlled room.
In this way any tampering of the reader does not affect the electrical lock function, and thus offers greater safety.
The reader/programmer is configured by dip switch or software.
The actuator, on the other hand, fitted with a trimmer on the rear of the device, allows the relay switching time to be set according to the type of electrical lock used.

Wiring diagram with management via software

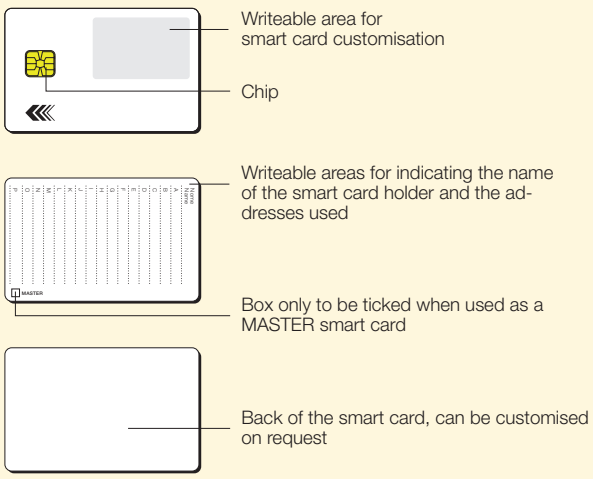


Connections via Bus



Key:
+,-: connection to Bus
0: common
1: normally open contact
2: normally closed contact

Examples of smart card use

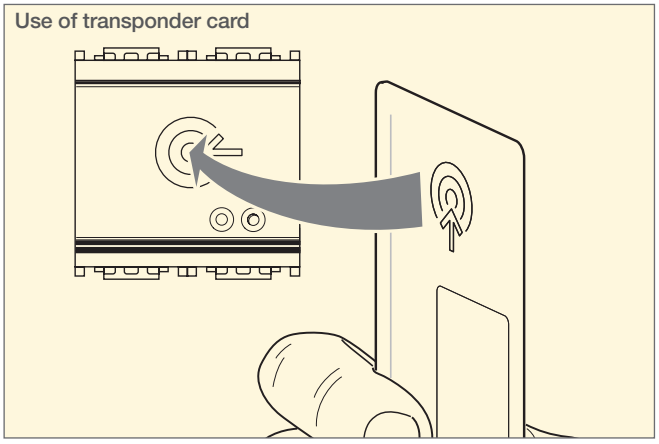


▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

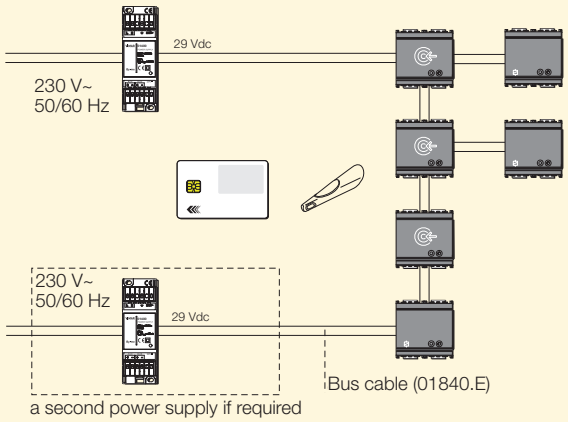
Solution on Bus line and access with transponder

Has the same installation architecture as the Bus system with smart card.
The difference lies in the use of a key reader or transponder card with 2 modules.
The transponder cards and keys ensure full safety and reliability, each contains a different code chosen from among 1000 billion possible combinations and they work without batteries, so have unlimited autonomy and require no maintenance.
The code is transmitted by placing the transponder card or key in contact with the connector which, if recognised, sends the actuator module a command to switch the relay.

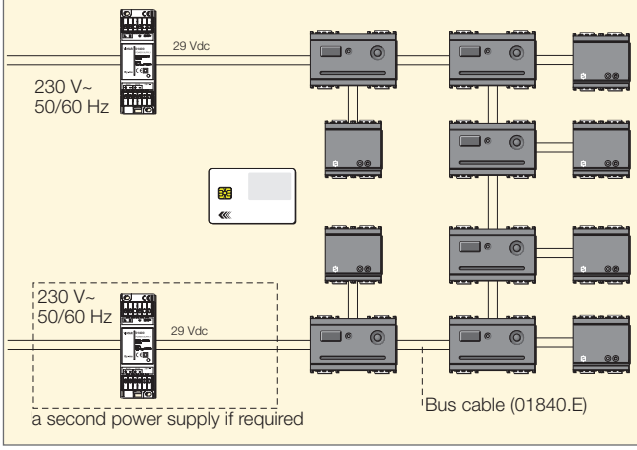
Use of transponder card



Wiring diagram with transponder reader



Wiring diagram with smart card reader



Stand-alone access control with smart card reader/programmer with built-in relay

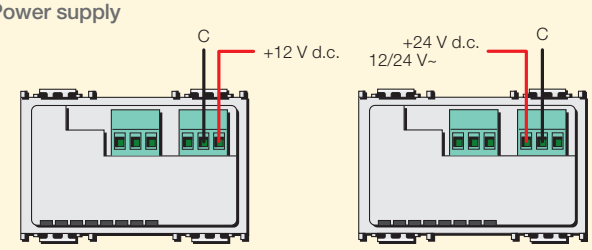
This is the most basic and simple solution. It consists of a smart card reader/programmer with 3 modules and also acts as actuator, via the on-board relay. The cards are programmed and the device is configured via dip switches fitted on the rear of the device. The output relay is activated on recognition of a previously memorised smart card.
When using the reader/programmer in hotels, an appropriate combination of dip switches helps to simplify certain functions and facilitate the use of the device in this context.
Another type of device configuration, known as “smart switch”, is used to create a secure utility control system. The output relay remains switched for as long as the previously programmed smart card is inserted in the reader/programmer.

Utility activation

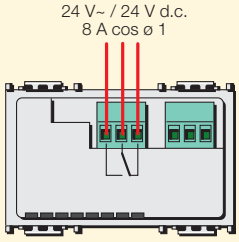
In all the proposed solutions, the utilities are activated cheaply also via the electronic badge switch. Inserting an ISO card in the reader (the card can also be the one used to access the room, but not only), causes the output relay to switch, to pilot loads up to 6 A 250 V~.

Connections for reader/programmer

Power supply



Relay output



Solutions for hospitality

EIKON	ARKÉ	PLANA

Hotel solutions

▲ 02686
4-button 1P NO 12 Vdc
50 mA max.
Depth: 15 mm

20026.DND
Interchangeable button, Do Not Disturb, with lightable diffuser, grey

20026.DND.B
Interchangeable button, Do Not Disturb, with lightable diffuser, white

20026.DND.N
Interchangeable button, Do Not Disturb, with lightable diffuser, Next

19026.DND
TInterchangeable button, Do Not Disturb, with lightable diffuser, grey

19026.DND.B
Interchangeable button, Do Not Disturb, with lightable diffuser, white

19026.DND.M
Interchangeable button, Do Not Disturb, with lightable diffuser, Metal

14026.DND
Interchangeable button, Do Not Disturb, with lightable diffuser, white

14026.DND.SL
Interchangeable button, Do Not Disturb, with lightable diffuser, Silver

20026.PLS
Interchangeable button, Please Clean, with lightable diffuser, grey

20026.PLS.B
Interchangeable button, Please Clean, with lightable diffuser, white

20026.PLS.N
Interchangeable button, Please Clean, with lightable diffuser, Next

19026.PLS
Interchangeable button, Please Clean, with lightable diffuser, grey

19026.PLS.B
Interchangeable button, Please Clean, with lightable diffuser, white

19026.PLS.M
Interchangeable button, Please Clean, with lightable diffuser, Metal

14026.PLS
Interchangeable button, Please Clean, with lightable diffuser, white

14026.PLS.SL
Interchangeable button, Please Clean, with lightable diffuser, Silver

▲ 20099
Volume control
8 Ω 15 W audio
for speakers, grey
- 2 modules.
Depth: 30,9 mm

▲ 20099.B
Volume control
8 Ω 15 W audio
for speakers, white
- 2 modules.
Depth: 30,9 mm

▲ 20099.N
Volume control
8 Ω 15 W audio
for speakers, Next
- 2 modules.
Depth: 30,9 mm

▲ 19099
Volume control
8 Ω 15 W audio
for speakers, grey
- 2 modules.
Depth: 30,1 mm

▲ 19099.B
Volume control
8 Ω 15 W audio
for speakers, white
- 2 modules.
Depth: 30,1 mm

▲ 19099.M
Volume control
8 Ω 15 W audio
for speakers, Metal
- 2 modules.
Depth: 30,1 mm

▲ 14099
Volume control
8 Ω 15 W audio
for speakers, white
- 2 modules.
Depth: 29,7 mm

20097
1P NO 10 A 250 V~
push button for hotel,
with "Do Not Disturb" and
"Please Clean", lightable
- 2 modules. Depth: 29 mm

19097
1P NO 10 A 250 V~
push button for hotel,
with "Do Not Disturb" and
"Please Clean", lightable
- 2 modules. Depth: 28 mm

14097
1P NO 10 A 250 V~
push button for hotel,
with "Do Not Disturb" and
"Please Clean", lightable
- 2 modules. Depth: 27 mm

▲ 00975
Card to customise
for 19097 button

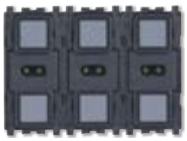
02685
4 signalling indicator:
IN, Do Not Disturb,
OUT, waitress symbol,
white - 2 modules.
Depth: 22 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	ARKÉ	PLANA

Hotel solutions

Eikon Tactil electronic controls



▲ **21125**
Electronic unit, 8 non-polarised inputs, 7 solid state outputs for non-polarised contacts, configurable RGB LED backlighting, 9-32 Vdc power supply, for external/ internal hotel room or cabin applications, to be completed with Eikon Tactil labels and cover plate - 3 modules. Depth: 22,8 mm

▲ **21126**
Electronic control with 6 independent pushbuttons, 8 non-polarised inputs, 7 solid state outputs for non-polarised contacts, configurable RGB LED backlighting, 9-32 Vdc power supply, to be completed with Eikon Tactil labels and cover plate - 3 modules. Depth: 22,8 mm

20290
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs grey - 3 modules.
Depth: 42 mm

19290
2230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs grey - 3 modules.
Depth: 41,5 mm

14290
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs white - 3 modules.
Depth: 41 mm

20290.B
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs white - 3 modules.
Depth: 42 mm

19290.B
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs white - 3 modules.
Depth: 41,5 mm

14290.SL
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs Silver - 3 modules.
Depth: 41 mm

20290.N
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs Next - 3 modules.
Depth: 42 mm

▲ **19290.M**
230 V~ 50/60 Hz, with 20 VA isolating transformer, 230 V~ and 120 V~ outputs Metal - 3 modules.
Depth: 41,5 mm

▲ **01470.1**
Pre-program 9-input and 8-output module, NO 16 A 120-230 V~ 50/60 Hz relay outputs, light control, roller blind laths positioning and local control functions, 6 x 17,5 mm modules

▲ **02690**
Lighting switch, 2000 W incandescent lamps, CFL 10-1000 W, LED 100 W, 220-240 V~ 50/60 Hz, ceiling mounting

EIKON	ARKÉ	IDEA	PLANA

Stand alone access control system

Smart card reader/programmers

20461
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey
- 3 modules. Provided without smart card.
Depth: 37 mm

20461.B
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white
- 3 modules. Provided without smart card.
Depth: 37 mm

20461.N
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Next
- 3 modules. Provided without smart card.
Depth: 37 mm

19461
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey
- 3 modules. Provided without smart card.
Depth: 37 mm

19461.B
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white
- 3 modules. Provided without smart card.
Depth: 37 mm

16461
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), grey
- 3 modules. Provided without smart card.
Depth: 36 mm

16461.B
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white
- 3 modules. Provided without smart card.
Depth: 36 mm

14461
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), white
- 3 modules. Provided without smart card.
Depth: 36 mm

14461.SL
Smart card reader/programmer, 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), Silver
- 3 modules. Provided without smart card.
Depth: 36 mm

16452
Programmable smart card

16452.H
As above, customisable[1]

16452.S
ISO-card (badge)

Badge switch with vertical pocket

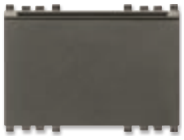
20465
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), grey
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm

20465.B
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), white
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm

20465.N
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), Next
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm

19465
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), grey
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm

19465.B
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), white
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm



19465.M
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), Metal
- 3 modules. Provided without ISO card (badge).
Depth: 37 mm

16465
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), grey
- 3 modules. Provided without ISO card (badge).
Depth: 36,5 mm

16465.B
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), white
- 3 modules. Provided without ISO card (badge).
Depth: 36,5 mm

14465
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), white
- 3 modules. Provided without ISO card (badge).
Depth: 36 mm

14465.SL
Badge switch with vertical pocket, 230 V~ 50/60 Hz, 24 V~/24 Vdc (SELV), Silver
- 3 modules. Provided without ISO card (badge).
Depth: 36 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Hotel solutions

EIKON	ARKÉ	PLANA

Stand alone access control system

20463
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, grey - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

20463.B
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, white - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

20463.N
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, Next - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

20468
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, grey - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

20468.1
As above, compatible with **CISA Electronic Solutions**

20468.B
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, white - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

20468.1.B
As above, compatible with **CISA Electronic Solutions**

20468.N
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, Next - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

20468.1.N
As above, compatible with **CISA Electronic Solutions**

19463
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, grey - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

19463.B
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, white - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

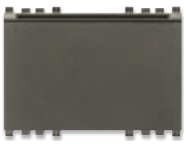
19463.M
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, Metal - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

19468
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, grey - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

19468.1
As above, compatible with **CISA Electronic Solutions**

19468.B
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, white - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

19468.1.B
As above, compatible with **CISA Electronic Solutions**



19468.M
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, Metal - 3 modules.
Supplied without Mifare card (badge).
Depth: 30,5 mm

19468.1.M
As above, compatible with **CISA Electronic Solutions**

14463
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, white - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

14463.SL
Electronic badge switch with vertical pocket, 120-230 V~ 50/60 Hz, Silver - 2 modules. Provided without ISO card (badge).
Depth: 20,5 mm

14468
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, white - 3 modules.
Supplied without Mifare card (badge).
Depth: 29,5 mm

14468.1
As above, compatible with **CISA Electronic Solutions**

14468.SL
NFC/RFID electronic transponder card reader, compatible with **AGB Electronic Solutions** for Hotels, vertical pocket, 120-230 V~ 50/60 Hz, Silver - 3 modules.
Supplied without Mifare card (badge).
Depth: 29,5 mm

14468.1.SL
As above, compatible with **CISA Electronic Solutions**

[1] For the customisation, see page 201

Hotel solutions

EIKON | IDEA | PLANA

Bus access control system

Transponder key readers

20470
Transponder key reader, grey
- 2 modules.
Depth: 26,5 mm

20470.B
Transponder key reader, white
- 2 modules.
Depth: 26,5 mm

20470.N
Transponder key reader, Next
- 2 modules.
Depth: 26,5 mm

16470
Transponder key reader, grey
- 2 modules.
Depth: 25 mm

16470.B
Transponder key reader, white
- 2 modules.
Depth: 25 mm

14470
Transponder key reader, white
- 2 modules.
Depth: 25,5 mm

14470.SL
Transponder key reader, Silver
- 2 modules.
Depth: 25,5 mm

Actuators

20472
Actuator with 3 A 30 V change-over relay output, grey
- 2 modules
Depth: 26,5 mm

20472.B
Actuator with 3 A 30 V change-over relay output, white
- 2 modules
Depth: 26,5 mm

20472.N
Actuator with 3 A 30 V change-over relay output, Next
- 2 modules
Depth: 26,5 mm

16472
Actuator with 3 A 30 V change-over relay output, grey
- 2 modules
Depth: 25 mm

16472.B
Actuator with 3 A 30 V change-over relay output, white
- 2 modules
Depth: 25 mm

14472
Actuator with 3 A 30 V change-over relay output, white
- 2 modules
Depth: 25,5 mm

14472.SL
Actuator with 3 A 30 V change-over relay output, Silver
- 2 modules
Depth: 25,5 mm

Smart card readers/programmers

20471
Smart card reader/ programmer, grey
- 3 modules.
Provided without smart card.
Depth: 37 mm

20471.B
Smart card reader/ programmer, white
- 3 modules.
Provided without smart card.
Depth: 37 mm

20471.N
Smart card reader/ programmer, Next
- 3 modules.
Provided without smart card.
Depth: 37 mm

16471
Smart card reader/ programmer, grey
- 3 modules.
Provided without smart card.
Depth: 36 mm

16471.B
Smart card reader/ programmer, white
- 3 modules.
Provided without smart card.
Depth: 36 mm

14471
Smart card reader/ programmer, white
- 3 modules.
Provided without smart card.
Depth: 36 mm

14471.SL
Smart card reader/ programmer, Silver
- 3 modules.
Provided without smart card.
Depth: 36 mm

Supply units

01400
Supply unit, 29 Vdc 400 mA output, 230 V~ 50/60 Hz, 2 x 17,5 mm modules

01401
Supply unit, 29 Vdc 1280 mA output, 120-230 V~ 50/60 Hz, 8 x 17,5 mm modules

▲ 01831.1
Supply unit 12 Vdc 1250 mA output, 100-240 V~ 50/60 Hz, 1 x 17,5 mm module

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	IDEA	PLANA

Bus access control system

Smart card programmers

20473
Smart card programmer, in 4-module table mounting box, grey.
To complete with 4-module cover plate.
Dimensions: 148,5x88,8x74,9 mm

20473.B
Smart card programmer, in 4-module table mounting box, white.
To complete with 4-module cover plate.
Dimensions: 148,5x88,8x74,9 mm

20473.N
Smart card programmer, in 4-module table mounting box, Next.
To complete with 4-module cover plate.
Dimensions: 148,5x88,8x74,9 mm

16473
Smart card programmer, in 3-module table mounting box, grey.
To complete with 3-module Classica cover plate.
Dimensions: 121,6x77,4x111 mm

16473.B
Smart card programmer, in 3-module table mounting box, white.
To complete with 3-module Classica cover plate.
Dimensions: 121,6x77,4x111 mm

14473
Smart card programmer, in 4-module table mounting box, white.
To complete with 4-module cover plate.
Dimensions: 142,5x80x67,6 mm

14473.SL
Smart card programmer, in 4-module table mounting box, Silver.
To complete with 4-module cover plate.
Dimensions: 142,5x80x67,6 mm

Cards and keys

01815
Transponder key

01816
Transponder card

01816.H
As above, customisable[1]

16452
Programmable smart card

16452.H
As above, customisable[1]

16474
Smart card for serial connection of reader/programmer

[1] For the customisation, see page 201

Accessories

EIKON | ARKÉ | PLANA

Boxes and table mounting boxes

V71318
8-module flush mounting box, (Glow Wire 650 °C), for masonry walls, light blue

V71718
8-module flush mounting box, (GW 850 °C) for hollow walls, light blue

V71631
Cover for V71318 and V71718 flush mounting boxes, snap fixing to V71328 antimortar cover (provided), white

V71328
Antimortar cover for V71318 and V71618 flush mounting boxes, yellow

Supports for DIN rail (60715 TH35) installation for Eikon, Arké and Plana devices

V51921
1-module support,
1,5 x 17,5 mm modules,
RAL 7035 grey.
Provided with isolating lining

V51923
3-module support,
4 x 17,5 mm modules,
RAL 7035 grey.
Provided with isolating lining

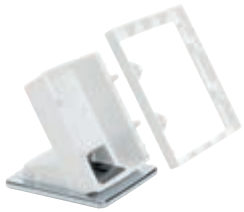
Table mounting boxes

20788
Table mounting box, 8 (4+4) modules.
Delivered with frame for Eikon Classic or Round cover plate. Grey

20788.B
Table mounting box, 8 (4+4) modules.
Delivered with frame for Eikon Classic or Round cover plate. White

19788
Table mounting box, 8 (4+4) modules.
Delivered with frame for Arké Classic or Round cover plate. Grey

19788.B
Table mounting box, 8 (4+4) modules.
Delivered with frame for Arké Classic or Round cover plate. White



14788
Table mounting box, 8 (4+4) modules.
Delivered with frame for Plana cover plate. White

Accessories

EIKON

Supports

00802.14
Orientable support, grey - 2 modules

00802
Orientable support, white - 2 modules

00802.20
Orientable support, Silver - 2 modules

00805.14
Adaptor for orientable supports flush mounting, grey - 2 modules. Depth: 36,5 mm

00805
Adaptor for orientable supports flush mounting, white - 2 modules. Depth: 36,5 mm

00805.20
Adaptor for orientable supports flush mounting, Silver - 2 modules. Depth: 36,5 mm

00800.14
Frame for supports surface mounting, grey

00800
Frame for supports surface mounting, white

00800.20
Frame for supports surface mounting, Silver

ARKÉ

Supports

00802.14
Orientable support, grey - 2 modules

00802
Orientable support, white - 2 modules

00805.14
Adaptor for orientable supports flush mounting, grey - 2 modules. Depth: 36,5 mm

00805
Adaptor for orientable supports flush mounting, white - 2 modules. Depth: 36,5 mm

00800.14
Frame for supports surface mounting, grey

00800
Frame for supports surface mounting, white

PLANA

Supports

00802
Orientable support, white - 2 modules.

00802.20
Orientable support, Silver - 2 modules

00805
Adaptor for orientable supports flush mounting, white - 2 modules. Depth: 36,5 mm

00805.20
Adaptor for orientable supports flush mounting, Silver - 2 modules. Depth: 36,5 mm

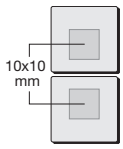
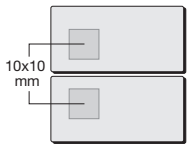
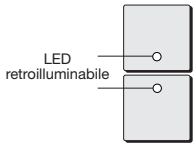
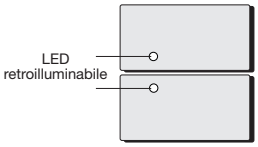
00800
Frame for supports surface mounting white

00800.20
Frame for supports surface mounting, Silver

Customisation of home automation controls

Positions and features (see area in grey)

For the symbols refer to the "Library of standard symbols and wording" for each series

Series	Type	Customisation position	Backlit customisation	Not backlit customisation
EIKON / ARKÉ	**1-module half-buttons**		**YES** only in the 10x10 mm area	if the LED programming is "OFF" the whole button area can be customised
	2-module half-buttons		**YES** only in the 10x10 mm area	if the LED programming is "OFF" the whole button area can be customised
PLANA	**1-module half-buttons**		**NO** backlit LED only	in the programming phase the user can decide whether to set the LED to "OFF" or "ON" or different brightness values
	2-module half-buttons		**NO** backlit LED only	in the programming phase the user can decide whether to set the LED to "OFF" or "ON" or different brightness values

Specifications for customising with wording	Text on 1 row	Text on 2 rows	Text on 3 rows
To be backlit, customisation with wording not included in the "**Library of standard symbols and wording**", must have no more than 3 text rows, each with maximum 8 capital letters, font height 1,7 mm and style as per the library. Depending on the length of the text, the wording must be positioned as shown in the figures to the side.			

Example of customised controls

Home automation controls with customisation not backlit

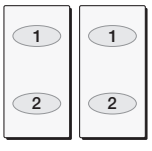
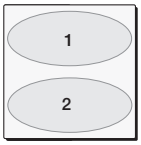
Home automation controls with backlit customisation (example with text)

Customisable buttons for radiofrequency controls

Customisation of radiofrequency controls

Positions and features (see area in grey)

For the symbols refer to the "Library of standard symbols and wording" for each series

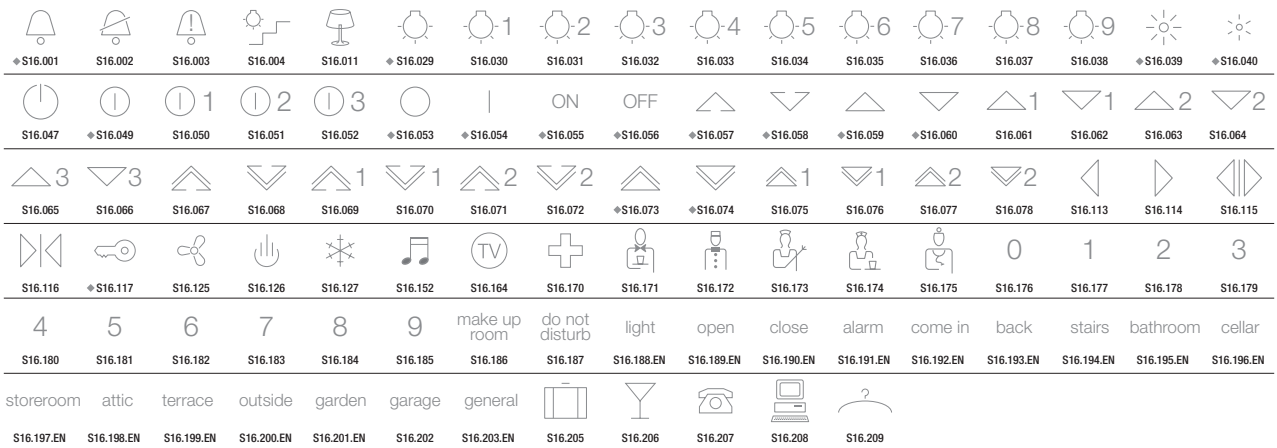
	Customisation position	Backlit customisation	Not backlit customisation
Pair of 1-module buttons for RF devices		**NO**	**positions 1 and 2**
2-module button for RF devices		**NO**	**positions 1 and 2**

Eikon standard symbols and wordings (♦ symbols already on product catalogue)

Arké standard symbols and wordings (♦ symbols already on product catalogue)

Plana standard symbols and wordings (◆ symbols already on product catalogue)

Idea standard symbols and wordings (◆ symbols already on product catalogue)



Indications for cover plates and devices customisation

- if the required customisation is including in the "**Library of standard symbols and wording**", indicate the item code + symbol/wording code, **if the customisation is not included in the table check its feasibility with the sales network**;
- for requests for large quantities of customised items not included in the "**Library of standard symbols and wording**" please contact the Vimar sales network.

Laser customisation advantages

- indelible engraving that does not deteriorate over time;
- service available even for minimal quantities;
- possibility of ordering the same customisation at different times with identical results.

The few limits of technology

- it is not possible to reproduce coloured images.

What to supply

- a printout of the image to be reproduced, in black-and-white line drawing scaled 2 or 3 times larger than the finished size;
- an image in EPS, TIFF or JPEG format of the subject to be reproduced.

Things to avoid

- do not provide photocopies;
- do not fax the image to be reproduced, because the low definition of the fax makes it impossible to reproduce the customisation with the high quality of laser system.

How to proceed

- enclose (without paper clips, staples or adhesive tape) or send the image to be reproduced;
- deliver all the documentation to your area wholesaler/distributor, who will then forward it to Vimar.

Customisation

Library of symbols and wording available for Eikon Tactil labels (Some symbols are repeated several times)

	Article 21847												Article 21847.1		Article 21847.2				Article 21846	
						ON	OFF						IN				LIGHT		0	5
Repetition	10	1	1	1	1	5	5	1	2	1	1	8	10	8	2	4	3	2	80	6
													OUT				OUTSIDE		1	6
Repetition	3	2	4	5	2	4	1	1	1	3	3	2	10	8	5	4	3	2	15	6
					START	STOP				2	3			DO NOT DISTURB					2	7
Repetition	1	1	1	1	1	1	3	3	1	1	1	2	4	8	5	1	2	2	15	6
												APRE	ON	MAKE UP ROOM					3	8
Repetition	1	1	1	1	1	1	1	1	1	2	2	1	8	8	6	1	6	2	15	6
												CHIUDE	OFF	ALARM			ON	OFF	4	9
Repetition	1	1	2	2	2	2	2	2	2	2	2	1	2	2	6	2	4	4	6	5
	1	2	3	4	5	6														
Repetition	1	1	1	1	1	1	1	2	2	1	2	2	8	10	3	5	3	5		
	MAKE UP ROOM	DO NOT DISTURB																		
Repetition	3	3	3	2	3	2	2	2	2	2	2	2	10		5	2	1	5		
			GENERALE	GENERAL	ALARM	LUCE	LIGHT	BAGNO	BATHROOM	OPEN	CLOSE	ESTERNO								
Repetition	2	2	1	1	2	1	1	1	1	1	1	1			2					
	SCALE	STAIRS	GARAGE	GIARDINO	GARDEN	TERRAZZA	TERRACE	OUTSIDE	ATTIC	SOLAIO	CANTINA	CELLAR								
Repetition	1	1	2	1	1	1	1	1	1	1	1	1								

Customisation of Eikon Tactil controls

Indications for customisation

- controls must be customized by affixingvan adhesive label (21847, 21847.1 and 21847.2) to the area of the device provided for the purpose (top or bottom);
- the labels contain the most common symbols used to identify the controls. Some pictograms for the most commonly used controls in conventional and home automation electrical systems are repeated several times (see above table);
- the symbol is back-lightable with RGB colours that will be set when programming the system;
- the cover plate must be attached so that the central contacts perfectly match those of the control appliance.

Customized control device with labels affixed

Fogli di etichette in mylar per la personalizzazione dei comandi

CUSTOMISATION

Smart card customisation

The rear of the card can be customised on request, by providing a digital image of the subject in eps, tiff or jpg format.

Customisation of the Bluetooth network name

The Bluetooth network name can be customised for articles in the speaker system: Bluetooth interface (19589) and stereo amplifier for speaker system (19590).

What to provide

- annex a file with extension .txt to the order
- the name of the .txt file must be created as follows:
  e.g. ***P19590_6.txt***
  P19590: required product code preceded by P;
  '6' the number of rows in the .txt file = quantity of the required product code;

Format of the .txt file

- use standard ASCII European characters;
- name of the network to be customised, max 23 characters (including spaces);
- the text on a new line identifies the end of the string to be customised;
- the number of rows must correspond to the quantity of the required article code;
- each row must indicate the requested customisation, even when repeated;

Example of file txt compilation (e.g. P19590_6.txt)

B&B	room 1
B&B	room 2
B&B	room 3
B&B	room 4
B&B	room 5
B&B	room 6

CALL-WAY: HOSPITAL CALL SYSTEM.

Solutions for health facilities: timely, reassuring, scalable.

From small clinics to more complex healthcare facilities, it is essential for call devices to always ensure timely intervention and comprehensive assistance. Developed to comply with standard VDE0834-1-2, the Call-way call system is enhanced with Plana devices in the **Antibacterial** version to blend in perfectly with solutions that reassure the patients and make the medical staff's work easier.

ANTI*BACTERIAL*

To ensure maximum hygiene at all times, Plana also comes in an antibacterial version with cover plates, devices and Call-way system terminals treated with silver ions. A special production process reduces the duplication of germs and bacteria, reducing their proliferation by over 90% over a 24 hour period.

Call button

An intuitive device to call the nursing staff quickly, with a pilot light that reassures the patient that the nurse has been called.

Call cancelling button

Cancels the call and signals the presence of staff in the room. The acoustic signal notifies of any calls from other rooms.

Corridor display.

Installed on the wards, it displays the system events: calls, presences, faults, alarms and ward messages (including advertising).

Anti-strangle call lead.

Installed in every room, it is used by patients to call the staff and has two light controls. In antibacterial material, it also has an anti-strangle, quick-release function.

Call-way: hospital call system

Typical system: call signalling using the 8 input/8 output card 02096.

The figure shows an example of a floor plan showing the system's arrangement in a health care facility that needs to have a call system (signalling only) to display:

- the call, type of call, and its origin (room number, bed, etc.);
- the presence in the room of the healthcare personnel following up on the call;
- calls that could come from other rooms.

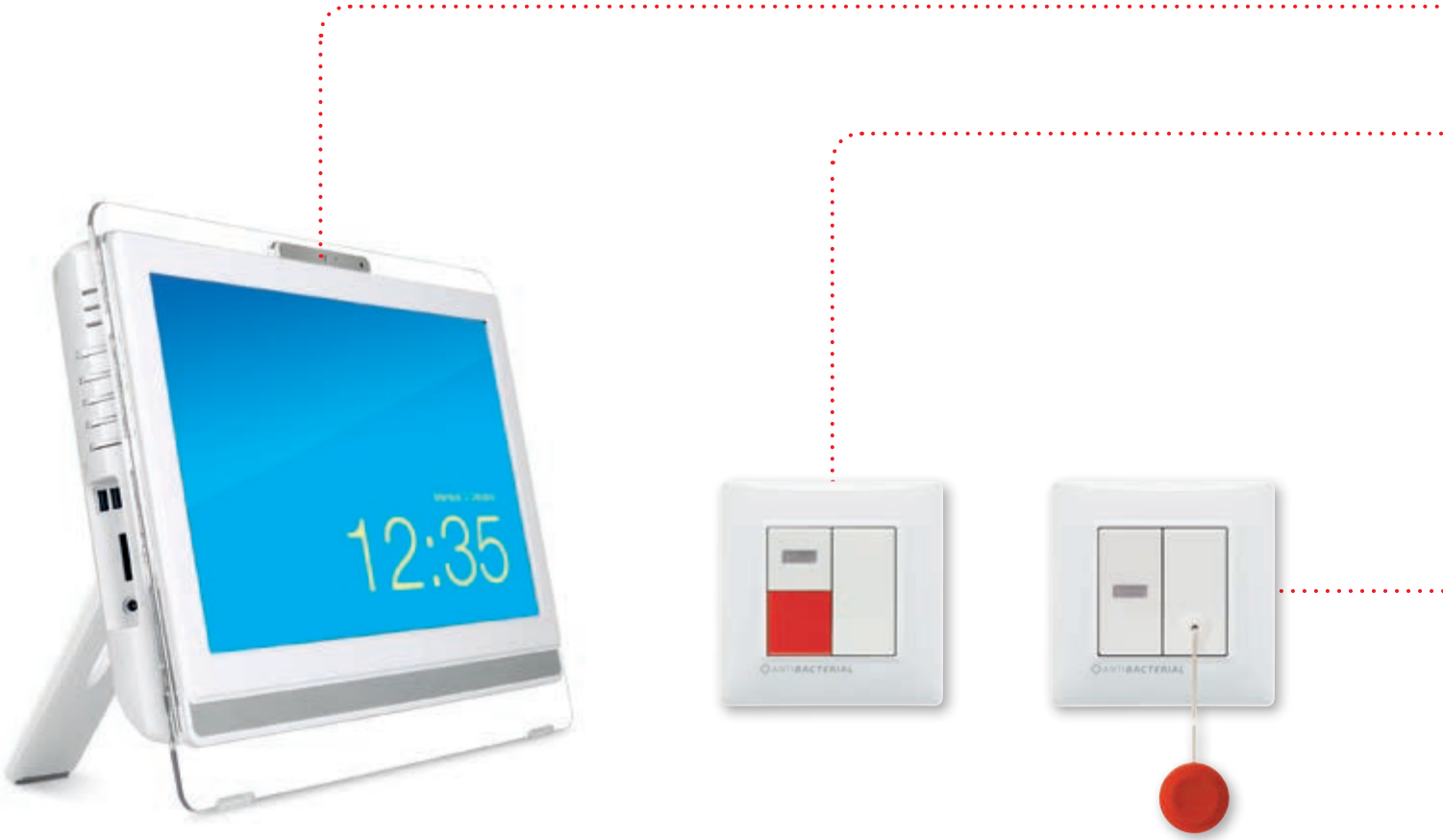
The operating mode is VDE-0834, signalling the type of call priority and in which room it is made via the landing lamps and the combinations of the lights that come on.

For more detailed information, such as the bed number, a 02081.AB or a 02097.1 is required.

The Bus will be composed of two different types of cablesi:

- 1 pair for the power supply (cable 2x2,5 mm^2);
- 1 pair for data transmission (FTP cat. 5e cable).

Note. The 02096 is configured only via dedicated software, the inputs and outputs are independent of each other, the only limit is that they must belong to the same ward. It does not work in on-line mode.



Display to show the events of the Call-way system.

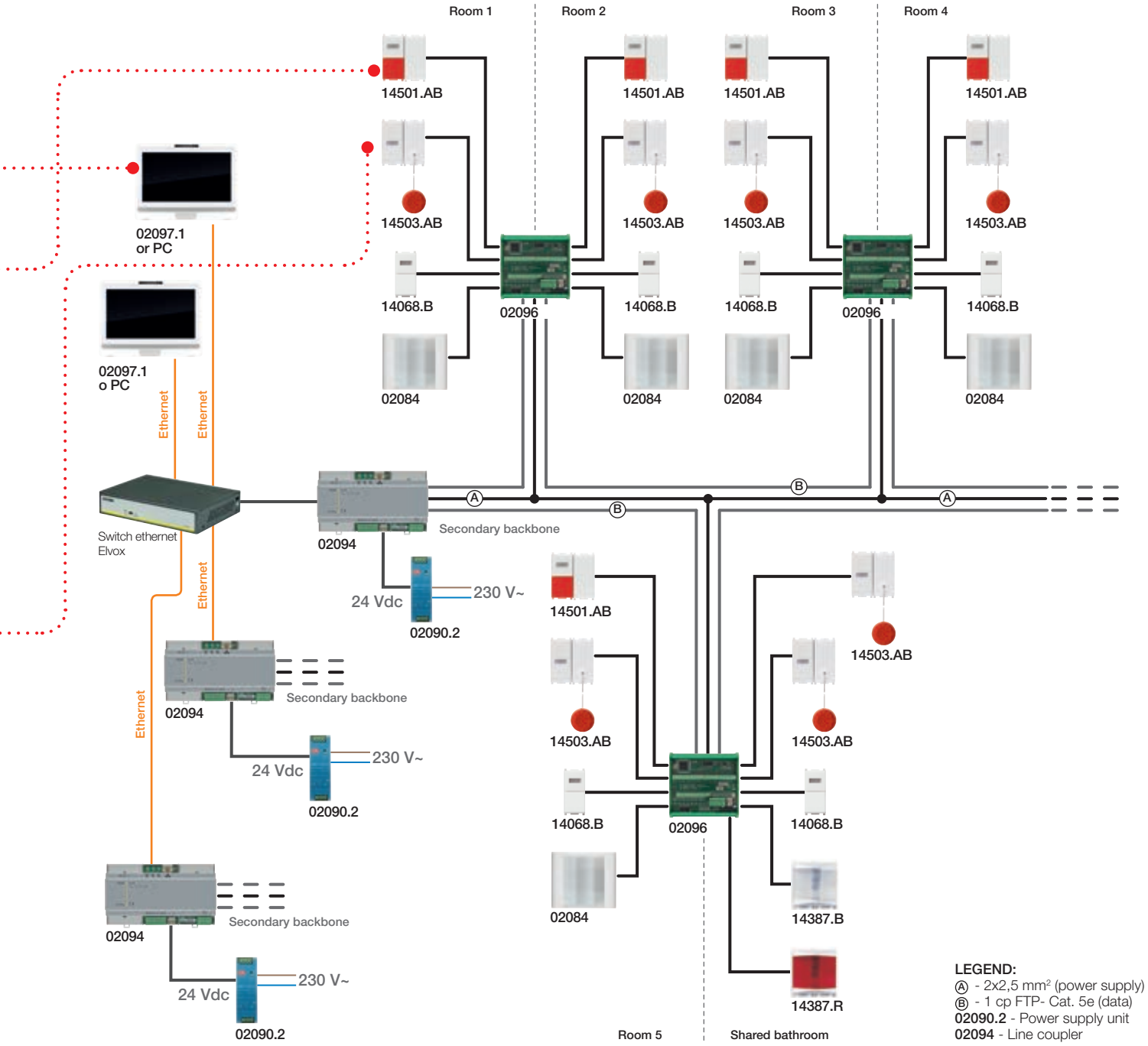
Call button with red reassurance light.

Pull-cord call button with red reassurance light

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: health facility with call signalling in the rooms on the ward using an 8 input/8 output card (art. 02096).



NOTE.
In the case of multi-backbone installation then, with multiple ADL-EF, channel 2 of the ADL-EF (via the Lantronix configurer, at the link: www.lantronix.com/support/downloads/?p=DEVICEINSTALLER) must be configured as default: with UDP protocol, the same remote port for all the devices, broadcast flag ticked and local host 0.0.0.0. The LED outdoor lamps (art. 02084) are programmable by software.

The diagrams are provided as examples only. For details on the correct size of the system, refer to the installation manual.

Call-way: hospital call system

Typical system: call signalling using display module 02081.AB.

The figure shows an example of a floor plan showing the system's arrangement in a health care facility that needs to have a call system (signalling only) to display:
- the call, type of call, and its origin (room number, bed, etc.);
- the presence in the room of the healthcare personnel following up on the call;
- calls that could come from other rooms.

The operating mode is VDE-0834, which includes the possibility of distinguishing the call priorities (normal, assistance, emergency).
Without the 02097.1 or a PC with dedicated software, the network does not have an events log or the ability to merge wards automatically. The Bus will be composed of two different types of cables:
- 1 pair for the power supply (cable 2x2,5 mm^2);
- 1 pair for data transmission (FTP cat. 5e cable)

Note.
When setting up it is always wise to have another 2 pairs of FTP cables because if in the future there were a need to expand the system, integrating voice transmission too, it would be enough to add the voice unit module 02082.AB to each display module 02081.AB thus taking action only on the configuration.
The display module with the addition of the voice unit module basically becomes like a communication terminal 02080.AB.

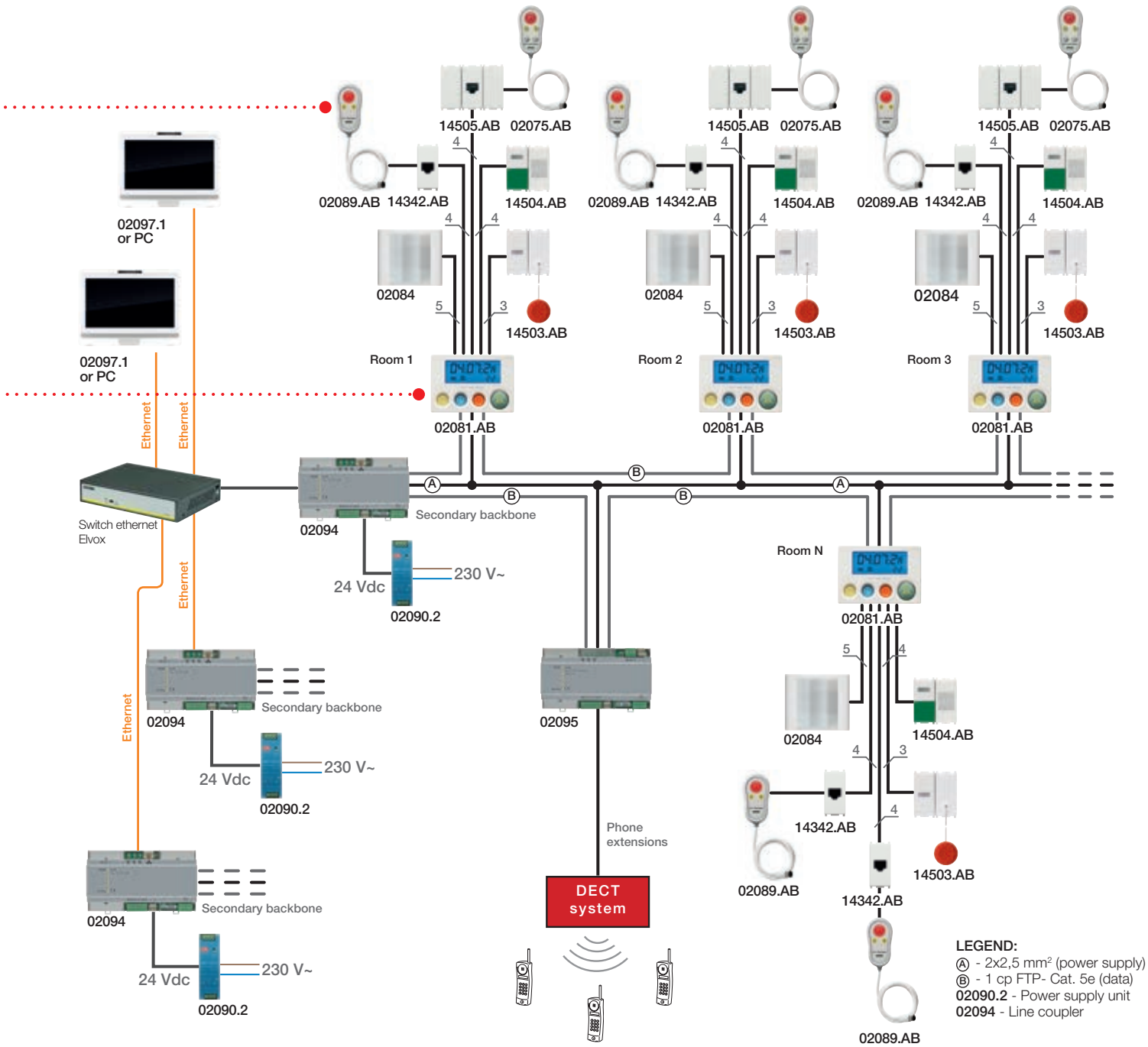
Display module for viewing calls.

Mini keypad with 2 light controls and anti-strangulation function

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: health facility with call signalling in the rooms on the ward using a display module (art. 02081.AB).



NOTE.
In the case of multi-backbone installation then, with multiple ADL-EF, channel 2 of the ADL-EF (via the Lantronix configurer, at the link: www.lantronix.com/support/downloads/?p=DEVICEINSTALLER) must be configured as default: with UDP protocol, the same remote port for all the devices, broadcast flag ticked and local host 0.0.0.0. The LED outdoor lamps (art. 02084) are programmable by software.

Call-way: hospital call system

Typical system: voice communication.

In the layout illustrating the system setup in a healthcare facility, there is the need to have a call system that also allows voice communication; the room device that is used is the communication terminal 02080.AB. The device's display will show:

- the call, type of call, and its origin (room number, bed, etc.);
- the presence in the room of the healthcare personnel following up on the call;
- calls that could come from other rooms.

The voice unit part of the device will enable:

- hands-free communication between two parties (patient - nurse, nurse - nurse, nurse - physician) with the two modes "hands free" and "push to talk";
- transmitting a music channel (which will be promptly discontinued in the event of a call or announcement);
- making room, ward or general announcements (via the telephone coupler connected to the system);
- communication with fixed telephones (via PABX switchboard) or normal DECT;

Call-way can be integrated with other systems that support the ESPA 4.4.4 protocol (pagers/DECT).

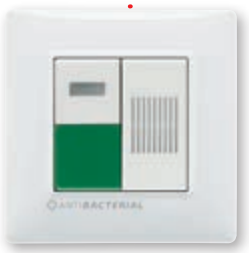
The Bus will be composed of two different types of cables:

- 1 pair for the power supply (cable 2x2,5 mm^2);
- 3 pairs for data, voice and announcements/music channel transmission respectively (FTP cat. 5e cable).

Alternatively a single SSTP cable can be used.

Note. For only hands-free communication between two communication terminals only the ADL-EF is needed: 02094.

Terminal for communications and displaying calls, formed by display module and voice unit module.

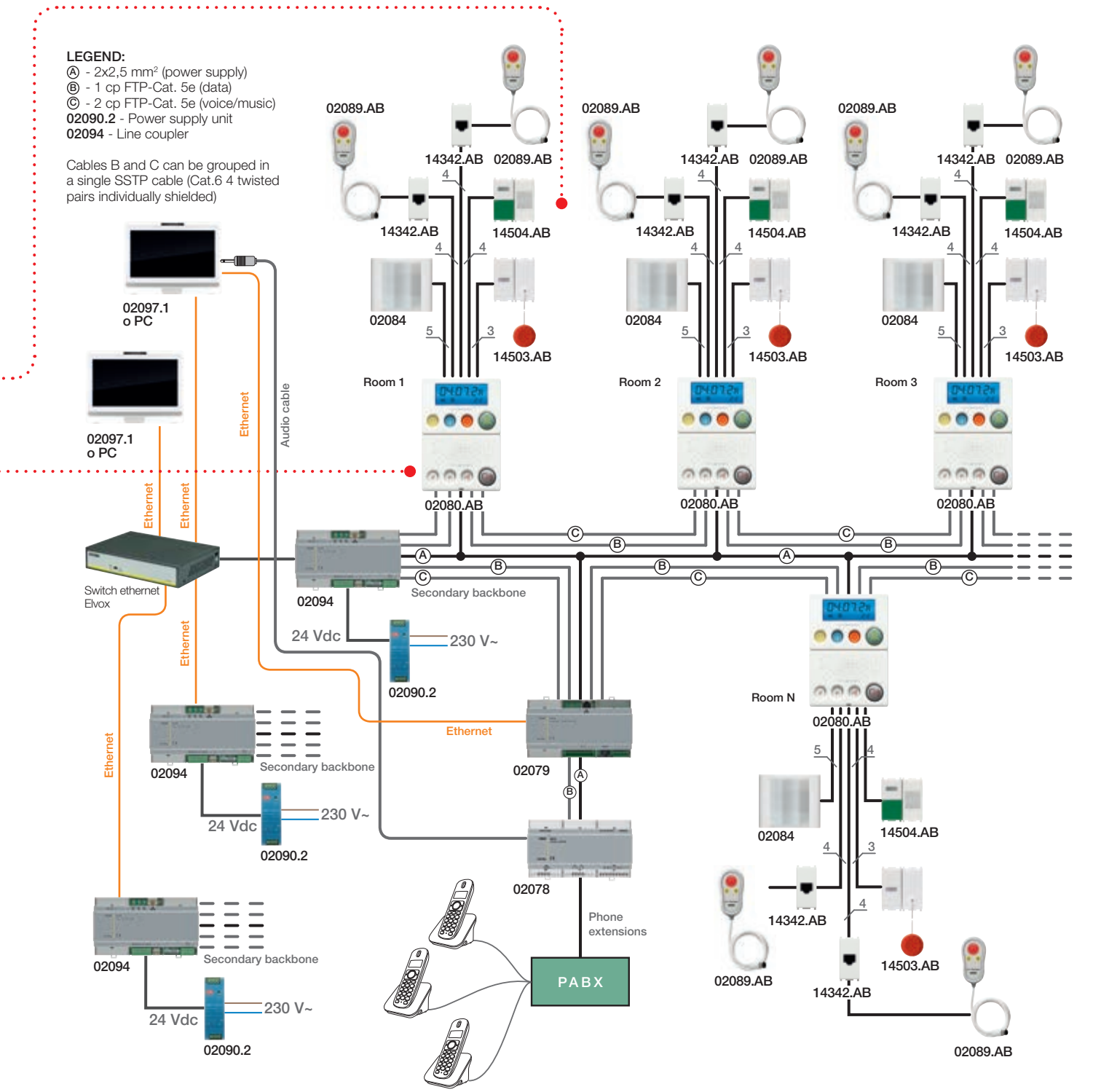


ancellation button with acoustic signal for receiving other calls and green indicator light.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: health facility with call signalling and voice communication in the rooms on the ward using a terminal 02080.AB.



NOTE.
In the case of multi-backbone installation then, with multiple ADL-EF, channel 2 of the ADL-EF (via the Lantronix configurer, at the link: www.lantronix.com/support/downloads/?p=DEVICEINSTALLER) must be configured as default: with UDP protocol, the same remote port for all the devices, broadcast flag ticked and local host 0.0.0.0.
The LED outdoor lamps (art. 02084) are programmable by software.

Call-way: hospital call system

FIELD OF APPLICATION

The new Call-way system complies with the standard **VDE0834-1-2** and, within the framework of existing receptive structures, it enables creating management and supervision systems for calls and communications by patients and/or medical and paramedical staff to the switchboard, other rooms or wards, and outside the hospital.

In recent years, the emerging concept of the high-tech hospital and the proliferation of nursing homes and care facilities for the elderly and/or physically challenged has led the market to develop solutions that guarantee increasingly high standards of service and organisation to meet all types of requirement.

The result is Call-way which, in addition to considerably improving organisation in hospitals, private clinics and care facilities, also increases the level of service and safety for patients and optimises the efficiency and effectiveness of the health care professionals working there.

The devices in the Call-way system, developed on Bus technology, offer solutions that enable the highest level of efficiency, responding perfectly to all installation requirements and the constraints imposed by the different facilities such as hospitals, clinics, nursing homes and care facilities in general. The system is available in English too.

TECHNICAL SPECIFICATIONS

What distinguishes the Call-way system is its ease of installation and programming, along with the clarity and flexibility of its use; these devices enable two distinct operating modes:

- **VDE-0834 with PC/Display for Corridor**
  The system is operated by the ADL-EF and is compliant with the VDE0834 -1-2 standard on signalling systems in healthcare facilities. The PC/DC is configured for managing: logs, statistics, ward consolidations and voice calls via the Phone coupler (AT).
- **VDE-0834 without PC**
  The system is still managed by the ADL-EF and is compliant with VDE0834 -1-2. Interfacing is guaranteed with DECT/ pager systems and voice calls to the wards but accessory functions are not handled such as logs, statistics and ward consolidations.

Methods that invalidate VDE0834-1-2

- **Off-Line**
  Method to ensure a minimum level of service in the event of failure of an ADL-EF in the network. In the event of failure the secondary backbone will continue to operate and the supervision and corridor display will signal the malfunctioning with dedicated signals.
- **On-line**
  This is equivalent to the old way where there is a personal computer that centralizes all the information shown on the display (modules and terminals) in order to supervise the entire system, save events (calls, room number, etc.), manage call priority and voice communication between rooms, between wards and to external devices (fixed or cordless phones, pagers, etc.), diagnostic call management (via clean contact from medical equipment to the display modules or communications terminals).

The display modules, combined with devices called voice modules, will constitute the communication terminals; in addition to displaying the type and characteristics of the calls, the terminal will then not only enable hands-free two-way communication with another terminal but also transmission of a music channel connected to an external source and, if there is a telephone coupler, also interfacing with pagers, switchboards, etc., in order to broadcast announcements and/or talk using the regular phone.

A call by a patient can be made with a special "mini keypad" or a ceiling pull; for this purpose the Call-way system range includes three buttons with an indicator light that match the Plana series and enable having a suitable user interface that is ergonomic, non-invasive on the wall and above all coordinated with all the other components of the traditional electrical system.

The functions/services that the Call-way system is able to offer can be subdivided as follows:

Services for patients

Each patient will be able to make a distress call with a simple manual operation on the mini keypad that is connected to the call button on the bed head.
On activating the call, with either the mini keypad or the button, the caller bed red light will come on (brighter than when on stand-by) which will give the patient the perception and the reassurance of the call being made.

If the room terminal has a voice module, the patient will be able to communicate with nurses and/or physicians via the room terminal (after the medical personnel have started the communication).

The terminal can also be used to receive and adjust the volume of an external sound source (music channel or otherwise); in the case of a service call, an internal relay will automatically switch over the device which will give priority to this call.

From the room's bathroom it will also be possible, as mentioned above, to make a distress call with the dedicated pull-cord; this button also has a red reassurance light that will come on (brighter than when on stand-by) simultaneously with the call for help.

Call-way: hospital call system

Services for medical and paramedical staff

Using the Call-way system will enable medical and nursing personnel to respond to calls promptly even from a distance (version with voice communication) improving and optimizing response times considerably.
Via the display you can view all the current events (calls, guests in room, priority levels, places of origin of the calls, system failures) and cancel calls locally once the patient has received the care they requested.

If there is a communication terminal, it will be possible to respond locally to a patient call from any room equipped with a terminal and cancel the call at a distance; if the staff providing care to the patient finds a situation of danger or severity they can make an emergency call to request immediate medical attention.

The voice unit channel is always activated with system control when there is a call to the room (generated by the telephone coupler) or a voice unit conference request.

The manner in which the communication is handled (full-duplex/half-duplex) is determined by the device that initiates the voice unit conference:
- telephone coupler: always full-duplex
- voice: depending on the chosen configuration

The half-duplex communication can take place in two ways:
- **Hands-free**, where the “direction” of the communication is established by the tone of voice; the exchange is made when the voice unit module recognizes a higher sound level of one speaker than the other.
- **Push to talk**, where the communication exchange between the parties is made by pressing the "voice direction command" button of the voice module (push-to-talk, release to listen)

Dedicated services for the hospital management/organization

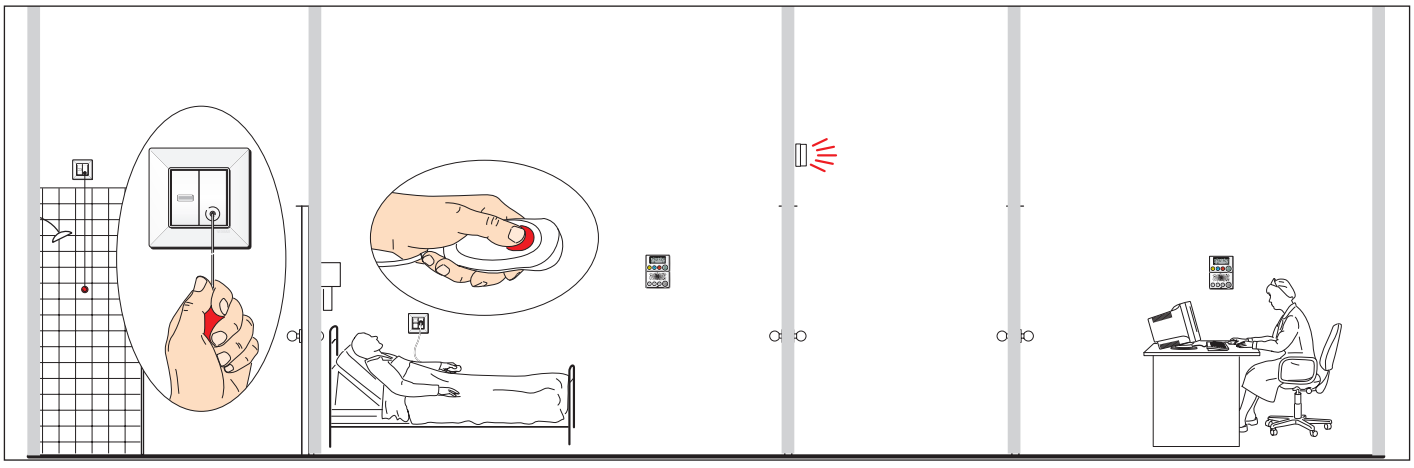
The Call-way system will enable optimizing human resources, significantly improving the efficiency of the service in the ward.

Each display in the room will be able to instantly show the status of calls, the place of origin and the presence of medical and nursing staff; when the installed device is a communication terminal it will be possible to answer and deal with patient calls at a distance, broadcast room and ward announcements and interface with fixed telephone devices, pagers or cordless phones.

With the aid of a PC, with Call-way installed, it will be possible to save the status of events (calls, presences, processing times of calls, etc.) directly to the file so that it can then be stored and subsequently used in case of need.

Services for patients

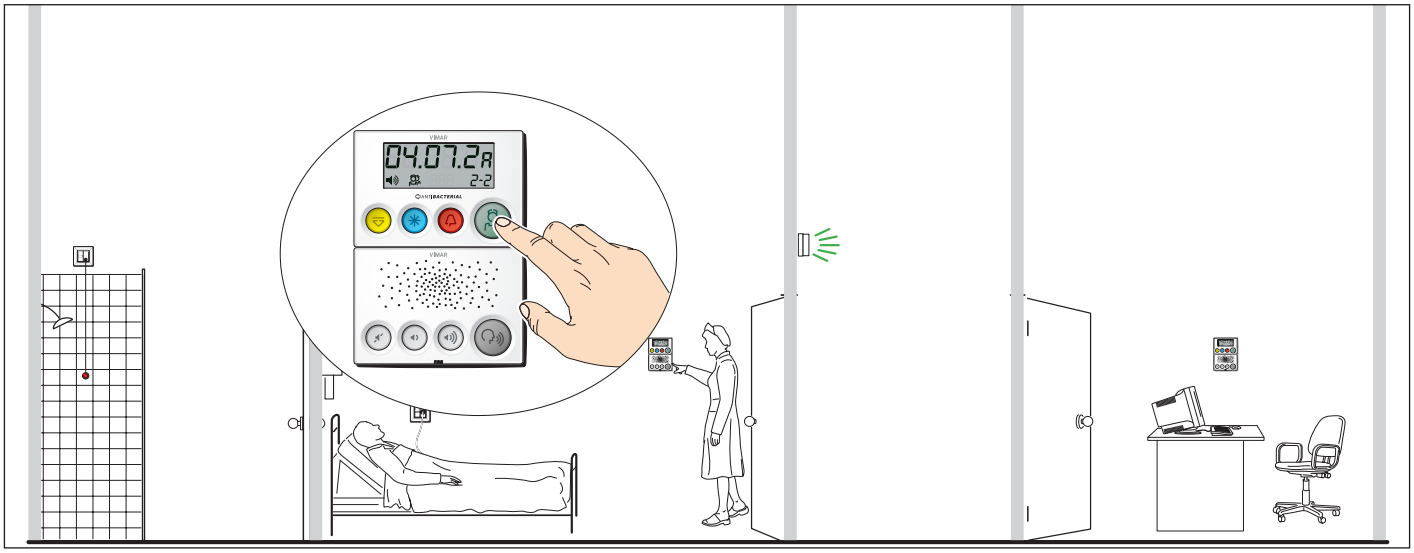
The patient makes a call with the mini keypad or cord-operated push button; the communication terminal is activated in the nurses' room and in the room; the red light (from the mini keypad) or white light (from the ceiling pull) turns on in the corridor.



Call-way: hospital call system

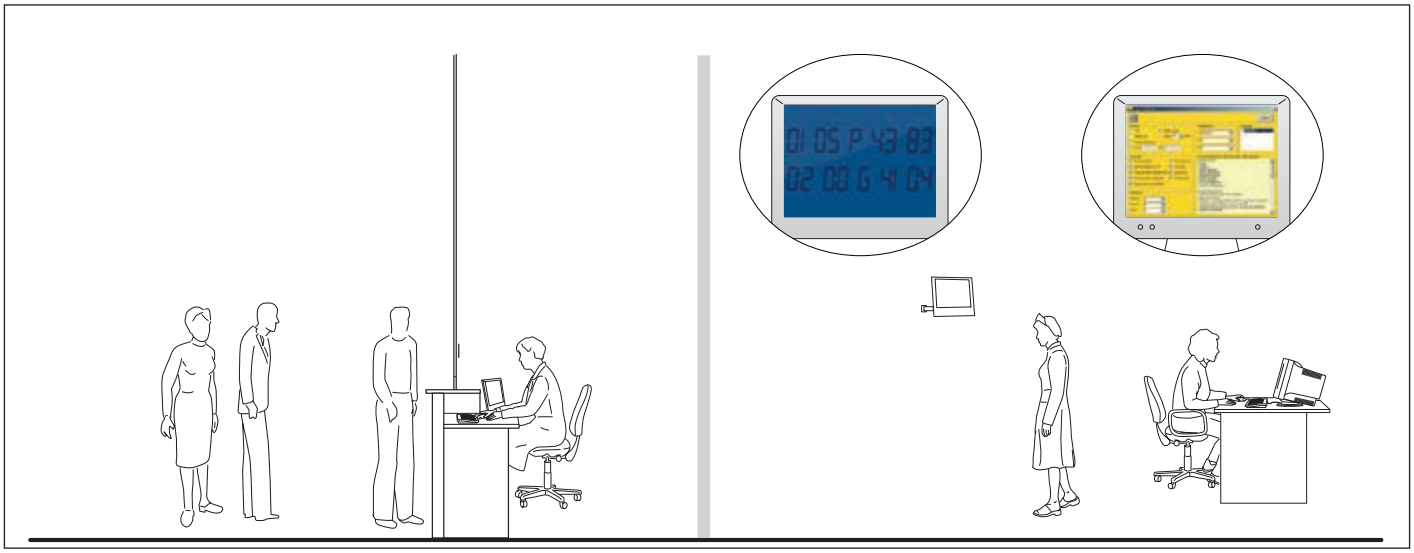
Services for medical and paramedical staff

The nurse comes to the room, cancels the call and shows she needs to remain via the communication terminal; the call is deactivated in the nurses' room; the red or white light turns off in the corridor and lights up green.



Dedicated services for the hospital management/ organization

The acceptance department and the medical staff within the facility can monitor calls, operations and personnel in order to maximize resources.



Call-way: hospital call system

System architecture

The Call-way system uses a Bus as a means of transmission, composed of cables with the following characteristics:
- 2x2,5 mm² for connecting the 24 Vdc power supply
- 2x0,22 mm² FTP Cat. 5e shielded for data transmission
- 2x0,22 mm² FTP Cat. 5e shielded for voice transmission
- 2x0,22 mm² FTP Cat. 5e shielded for transmitting announcements/music channel.

As an alternative to the three FTP cables, a single SSTP cable can be used.
Using the Bus to connect devices ensures not only a simplification of the installation, wiring and maintenance operations, but also a high level of immunity from interference.
The main feature of the system architecture is its open loop structure; this allows each device connected to the line to communicate with all the other components in two distinct modes:
- **VDE-0834 with PC/Display for Corridor**
  The system is operated by the ADL-EF and is compliant with the VDE0834 -1-2 standard on signalling systems in healthcare facilities. The PC/DC is configured for managing: logs, statistics, ward consolidations and voice calls via the Phone coupler (AT).
- **VDE-0834 without PC**
  The system is still managed by the ADL-EF and is compliant with VDE0834 -1-2. Interfacing is guaranteed with DECT/pager systems and voice calls to the wards but accessory functions are not handled such as logs, statistics and ward consolidations.

The basic element on which the system architecture stands is the line; this is also the starting point for expanding the system up to the maximum possible configuration in terms of devices and shared functions.
Each line can be composed of at most 128 devices, each one with its own physical address (communication terminals, display modules, telephone coupler) and the number of power supply units needed will be determined according to the number of components; each power supply unit delivers an output current of 5 A.
The system is able to manage up to 128 lines connected together by line couplers; all the connected devices communicate with each other over an Ethernet network, exchanging information over the network in accordance with the rules of the communication protocol.

The range of devices comprising the Call-way system is greatly reduced thanks to the considerable flexibility and functionality they offer; just by using the room device (communication terminal or display module), you can control and manage all the inputs/outputs in the room; the default configuration is as follows:
- 3 bed call buttons
- 1 ceiling pull
- 1 ceiling pull cancellation
- 4 landing indicator lamps (call, nurse present, bathroom call and assistance call or diagnostics).

The communication terminal and the display module also allow the following configurations:
- 3 bed calls, 1 bathroom call and 1 bathroom call cancellation
- 2 bed calls, 2 diagnostics calls and 1 bathroom call
- 2 bed calls, 2 diagnostics calls and 1 bathroom call cancellation
- 4 bed calls and 1 bathroom call
- 5 bed calls

The devices are connected serially since, should one of the components malfunction, the proper operation of the other devices is not affected and the services in the other rooms are not impaired.

Installation components

When creating an installation with the Call-way system, the following components are used:
- Power supply unit
- Line coupler
- Communication terminal
- Display module
- Voice unit module
- Telephone coupler
- Call buttons, mini keypad and landing lamps

Set the system

It is important, in the phase of system setting, to have a clear idea of which functions are to be implemented according to the type of assistance required; this will obviously depend on the type of the facility where the system is to be installed since, for example, a hospital will have different needs to those of a centre for the physically challenged.

Call-way system devices can be configured, depending on the different needs, in different ways; the types of configuration are the following:
- self-learning, via extremely simple operations carried out manually on the buttons of the display module, in the case of VDE-0834 mode without PC
- using PC software in the case of VDE-0834 mode with PC/Corridor Display.

As regards the actual preparation of the system and therefore laying out the cables and positioning the devices, it will be enough to take into account the following precautions:
- Add up the power inputs of the single devices (that must be no more than 128 per line) such as display modules, communication terminals, line coupler and telephone coupler so as to determine the number of power supplies to install (if the current absorption of the devices in a line is greater than 6.5 A it is necessary to have a second power supply and so on).

When calculating the current absorption it is necessary to take into account the consumption of the button LEDs (bed call, ceiling pull), the mini keypad LEDs and the lamps connected to the display modules and to the communication terminals; each LED has a consumption of 30 mA while for the lamps each module will be able to deliver up to 250 mA.
In the case of wards with a large number of rooms (from 20 to 30 rooms), the total consumption of the lamps and LEDs, which must be added to that of the system devices, is given by the sum of the current absorption of the lamps and LEDs multiplied by 0.2 (coefficient taking into account the fact that it is never possible for all the lamps and LEDs in a system to switch on simultaneously).

Example

In a ward of 20 rooms, each room is equipped with a communication terminal which is connected to a bed call button and two RJ45 sockets with their mini keypads, a ceiling pull, a call reset button and a landing indicator lamp. The current absorption of the room devices will be equal to:
- Communication terminal current absorption 70 mA;
- Landing lamp output current absorption max 250 mA;
- Push buttons LED current absorption 1 x 30 mA (30 mA).
- Mini keypads LED current absorption 2x 30 mA (60 mA)

The total consumption of the devices in the ward (20 rooms), equal to 2760 mA (2,76 A), is given by:
- (250 mA + 30 mA + 60 mA) x 20 x 0,2 + 20 x 70 mA.

The power supply 02090.2, which delivers an output current of 6,5 A, is thus easily sufficient to provide power to the entire ward.

- Evaluate accurately, according to the size of the healthcare facility, whether a line can be considered as a floor or whether a line can cover a number of floors or, vice versa, whether the property is so large that covering a floor requires a number of lines (therefore, at the design stage, take account of the characteristics of a line in terms of number of devices and consumption).
- The number of lines forming the system will determine the number of couplers that must be installed (the lines are connected together by line couplers that allow communication between devices belonging to different lines).
- Determine the desired requirements for the voice/announcements functions in order to establish the number and location of the phone couplers intended for managing voice communications, interfacing with PABX switchboards and transmitting the announcements/music channel.
  If, for example, a single voice channel is believed sufficient for the entire system, it will be enough to have the telephone coupler on one line; conversely, if you want to implement simultaneous and independent communication between the terminals of a ward and all the others you will need a telephone coupler for each ward.
- The Call-way software lets you easily manage operating profiles/scenarios by time slots or specific days (holidays, etc.) so as to enable centralizing the control desks and all the signalling and voice functions associated with them; this is in order to optimize the presence of personnel without reducing the quality of the service and the level of safety.
- Cables need to be laid depending on the type chosen for system operation (signalling only with display module or signalling and voice with communication terminal).

Call-way system devices, apart from those with DIN pins, can be installed in a V71303 flush mounting 3 module box or in a round 60 mm diameter box. Although display module 02081.AB and communication terminal 02080.AB are wall mounted devices, they need a flush mounting 3 module box or ø 60 mm round box to house the terminals.

Summary of features and functions

The Call-way system is designed to meet the diverse application requirements of public and private health institutions for providing care; as mentioned earlier, it is easy to see how the demands of a nursing home can, for example, be different from those of a hospital or private clinic.
Being able to meet those demands and trying to ensure operational independence, typical of distributed intelligence systems, are the conditions with which the Call-way system has been implemented.
Each ward can be equipped with one or more operating stations (control desks) that directly manage their peripheral units; within the operating station or ward, solutions can be implemented with only the display or with the communication terminal.

Whether to use a personal computer or not uniquely defines the type of operation;

- **VDE-0834 with PC/Display for Corridor**
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- **VDE-0834 without PC**
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Methods that invalidate VDE0834-1-2

- **Off-Line**
  Method to ensure a minimum level of service in the event of failure of an ADL-EF in the network. In the event of failure the secondary backbone will continue to operate and the supervision and corridor display will signal the malfunctioning with dedicated signals.
- **On-line**
  This is equivalent to the old way where there is a personal computer that centralizes all the information shown on the display (modules and terminals) in order to supervise the entire system, save events (calls, room number, etc.), manage call priority and voice communication between rooms, between wards and to external devices (fixed or cordless phones, pagers, etc.), diagnostic call management (via clean contact from medical equipment to the display modules or communications terminals).

In the case of on-line operation it becomes necessary to use a line coupler upstream of the backbone (main line from which are derived all the other lines).
Note that, in any case, passing from one system mode to the other does not require replacing any existing components, but only integrating them with additional devices.
Using Bus technology is particularly advantageous especially in economic terms; due to the ease of installation and a significant reduction in the number of conductors, it is possible to dramatically reduce wiring and system configuration times
Equally important is the time for system maintenance; in the event of malfunctioning, internal self-diagnosis recognizes the nature of the fault, identifying the affected device that can be replaced very practically and fast while avoiding unwanted system shutdowns and prolonged disruptions in the room.

Interoperability with external systems

The Call-way system can easily communicate with paging systems (via the ESPA 4.4.4 protocol) and telephone equipment or PABX switchboards.
This type of application enables call transmission even in places where normally there are no specific terminals (for communication or display modules) and allows the medical and paramedical staff to be reached by messages or calls from patient rooms.
If fixed telephone equipment or DECT portable phones are available, healthcare professionals will be able to make direct communication with the room from where the call is made and talk with those present (patients or other health care personnel already in the room) or send messages of a general nature (announcements or warnings) to all the rooms where there are communication terminals.
The above applications depend on the type of device installed in the room:

- with the display module 02081.AB it will be possible to interface the system with pagers;
- with the communication terminal 02080.AB or by adding the voice unit module 02082.AB to the display module 02081.AB, the system can be interfaced with pagers, fixed and cordless

phones; in addition, when interfacing with phones, calls may be transmitted by means of special audio messages (wave files) from the supervisory PC.

CONFIGURATION AND SUPERVISION

The system configuration procedures are very simple and intuitive and they occur in two different ways depending on whether you want to use a PC or not.
Manual configuration is done with the buttons on the front of the display module or the communication terminal with which you are going to set:

- the ward number;
- the room number;
- the function of the device (ie, if the display module functions as a room unit or control desk).
- backward compatibility (should it be necessary to place the device in an existing room with legacy devices).

Each of these operations will be displayed and confirmed or modified with the front buttons of the display module or communication terminal.
Configuration via PC takes place using dedicated software, downloadable free of charge from the VIMAR website, and after manual configuration in the ward and room of the display modules or communication terminals. The software allows not only adding but also self-acknowledging modules so as to simplify system configuration.
In addition, you can view all calls in progress, the presence of health personnel, the records of all events, the assignment of calls to staff according to the priorities assigned, interfacing with external devices (telephones, pagers, etc.), and the creation of ward association profiles (common recipients of a call).
The software is able to manage the connection between multiple PCs via LAN; each PC can be connected to one or more line couplers 02094 to each of which one or more room devices can be connected according to the requirements and the type of system.
The user interface for all the available menus is graphical and in each window there are fields for entering data; thanks to its network of service providers, Vimar offers a system configuration and start-up service.

The software's user manual, in pdf format, is freely available on **www.vimar.com**; the table below lists the main configuration elements of the Call-way system according to the required types of management and supervision.

	Menu	Function
System configuration	Call parameter configuration	This is used to set the ways in which calls are made (time for passing from one priority to another, call resetting, repeating call audible warning according to a settable time). This menu lets you send not only calls but also the presence of health personnel to the device display, set the audible warning for the start of voice communication, set the destination of a call to the phone coupler and set the serial port if needed.
	Log	This lets you distinguish between events that need to be stored in memory from those that need to be excluded.
	Ward merging profiles	This lets you direct all the calls of one or more wards to another ward where staff are able to assist; this type of function is useful in time slots when staff are fewer (at night) or on particular days of the year (holidays, etc.).
	ESPA settings (for communication with external devices)	The ESPA protocol is one of the most popular standards and allows the Call-way system to interface with other systems and carry out a mutual exchange of information (typical use in paging systems).
Technical Setup	Module/layout configuration	This lets you add, delete or configure not only each device on the Bus, but also every room, bed or bathroom in the building. There are two different viewing methods: layout (viewing wards, rooms, beds and bathrooms) or modules (viewing devices).
Device configuration	Setting device parameters	Sets all those general parameters that regulate the operating mode of each of the devices in the system.
	Technical Setup	Sets the information that appears on the display and the call parameters.
	Telephone coupler technical setup	Sets the specific operating parameters of the phone coupler
	Call configuration (priority, etc.)	Lets you manage call "traffic" according to priority timing and levels of urgency that can be set according to the different needs of the facility.
	Call destination configuration	The management software lets you take targeted action on the running of the program and inhibit or allow the use of certain features depending on the user that is using it.
	Users Groups/Security	The management software lets you take targeted action on the running of the program and inhibit or allow the use of certain features depending on the user that is using it.
	Reports	Displays a report (in table form) relating to the events recorded by the system.
	Configuration file	Used to access a configuration file containing some system settings that can be useful to access directly rather than through the database.
Configuration	Bus-on-lan	Used to set the parameters for communication between PC and ADL-EF and choose the look and feel of the program and the operating mode.

Call-way: hospital call system

Devices

Terminal and modules

02080.AB
Communication and call display terminal, antibacterial treatment

02081.AB
Display module in single-base, antibacterial treatment

02082.AB
Phonic module in single-base, antibacterial treatment

Completion devices

02075.AB
Backlit tail call lead, 2 light controls, 2 auxiliary service controls, anti-strangle function, antibacterial treatment

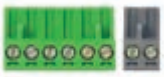
14505.AB
Relay module with RJ45 socket outlet for tail call lead with 2 lights + 2 AUX, connection with an 8IN/8OUT module or a Call-way display, 4 24 V NO relay outputs, antibacterial treatment - 3 modules. Depth: 29,5 mm

02089.AB
Call keypad 2 light controls, anti-strangulation, antibacterial treatment

02086**
Simple mini-keyboard

02087**
Simple mini-keyboard with 1 light control

02088**
Simple mini-keyboard with 2 light controls



02085
Removable spare terminal, 8 screw terminal

** Call-way spare parts for the first generation of devices

Display

02097.1
Call-way system display, surface mounting

02098
Mounting bracket for display

02079
Ethernet/RS485 interface, 9 x 17,5 mm modules

Special switches

14501.AB*
Call push button, with red reassurance indicator unit, antibacterial treatment - 2 modules. Depth: 36 mm

14502
Call push button with DIN 7-contact socket outlets - 2 modules. Depth: 37 mm

14503.AB*
Cord-operated push button with red reassurance indicator unit, antibacterial treatment - 2 modules. Depth: 36 mm

14504.AB*
Cancel call push button, with acoustic signalling and green indicator unit, antibacterial treatment - 2 modules. Depth: 36 mm

* Push button suitable for ABB Clinos system.

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Call-way: hospital call system

Devices

Prismatic indicator units (for 14771 and 14777 lamps)

14387.B
230 V~ 3 W max,
white diffuser.
- 2 modules.
Depth: 24 mm

14387.R
230 V~ 3 W max,
red diffuser.
- 2 modules.
Depth: 24 mm

14387.V
230 V~ 3 W max,
green diffuser.
- 2 modules.
Depth: 24 mm

Landing lamp

02084
LED landing lamp, 4 colours,
surface mounting

Accessories and devices for DIN rail (60715 TH35)

02090.2
Power supply unit,
24 Vdc 5 A, 100-
240 V~ 50/60 Hz

02094
Line coupler with ethernet and
sound system management,
9 x 17,5 mm modules

02078
Phone coupler,
9 x 17,5 mm modules

02095
Serial interface ESPA 4.4.4,
9 x 17,5 mm modules

02096
Card with 8 inputs and
8 outputs, 8 x 17,5 mm
modules

Cables

03061.E
Cat. 5e F/UTP cable, shielded, 4-pair,
24 AWG, LSZH-sheath, CPR Eca class,
suitable for I category cables
(U0 = 400 V), grey - 305 m

03076.E
Cat. 6 F/UTP cable, shielded, 4-pair,
23 AWG, LSZH sheath, CPR Eca class,
suitable for I category cables
(U0 = 400 V), green - 500 m

03086.E
Cat. 6A S/FTP cable, shielded, 4-pair,
23 AWG, LSZH sheath, CPR Eca class,
suitable for I category cables
(U0 = 400 V), orange - 500 m

Plana control devices with antibacterial treatment

14041.AB
Blank module.
Depth: 10 mm

14001.AB
1P 1-way switch,
16 AX 250 V~.
Depth: 24 mm

14015.AB
2P 1-way switch,
16 AX 250 V~.
Depth: 24 mm

14013.AB
1P reversing
switch, 16 AX
250 V~.
Depth: 24 mm

14005.AB
1P 2-way switch,
16 AX 250 V~.
Depth: 24 mm

14008.AB
1P NO push
button,
10 A 250 V~.
Depth: 24 mm

14022.AB
Interchangeable
button, with lighta-
ble ring pilot lamp,
no symbol
- 2 modules

14052.AB
1P special
switch,
NO 10 A 250 V~,
cord-operated.
Depth: 24 mm

14136.AB.1
MASTER dimmer,
universal, with
potentiometer.
Depth: 40,5 mm

Devices

Plana socket outlets with antibacterial treatment

14203.AB
Bpresa SICURY 2P+E 16 A 250 V~ socket, Italian standard P17/11.
Depth: 24 mm

14210.AB
SICURY 2P+E 16 A 250 V~ universal socket
- 2 modules.
Depth: 25 mm

14208.AB
SICURY 2P+E 16 A 250 V~ socket, German standard
- 2 modules.
Depth: 28,4 mm

14212.AB
SICURY 2P+E 16 A 250 V~ socket, French standard
- 2 modules.
Depth: 25,4 mm

14203.AB.R
Bpresa SICURY 2P+E 16 A 250 V~ socket, Italian standard P17/11, red.
Depth: 24 mm

14210.AB.A
SICURY 2P+E 16 A 250 V~ universal socket, orange
- 2 modules.
Depth: 25 mm

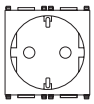
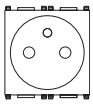
14210.AB.R
SICURY 2P+E 16 A 250 V~ universal socket, red
- 2 modules.
Depth: 25 mm

14210.AB.V
SICURY 2P+E 16 A 250 V~ universal socket, green
- 2 modules.
Depth: 25 mm

14290.AB
Shaver socket with 20 VA isolation transformer, output 230 V~ and 120 V~
- 3 modules.
Depth: 41 mm

14330.AB
2P 6 A 24 V (SELV) socket for plug 01620.
Depth: 24 mm

Foreign standard plugs and socket outlets

	 14208.AB	 14212.AB
S10 Italian standard plug	●	●
2P 2,5 A Europlug	●	●
2P+E 16 A 250 V~ German standard plug	●	
2P+E 16 A 250 V~ German and French standards plug	●	●
2P 16 A 250 V~ German and French standards plug	●	●
2P+E 16 A 250 V~ French standard plug		●

● **Plug standard matches socket outlet**

Plana signal reception socket outlets with antibacterial treatment

14320.AB
RJ11 socket, 6-position 4-contact (6/4).
Depth: 32,6 mm

14339.AB.13
RJ45 socket with Netsafe Cat. 6, UTP connector.
Depth: 29,3 mm

14339.AB.14
RJ45 socket with Netsafe Cat. 6, FTP connector.
Depth: 29,3 mm

14342.AB
RJ45 socket connector, 8-position, 8-contact (8/8).
Depth: 32,6 mm

14300.AB.01
TV-RD-SAT 5-2400 MHz coaxial socket, direct 1 dB.
Depth: 21,6 mm

Call-way: hospital call system

Devices

Plana technopolymer cover plates with antibacterial treatment, white

14642.AB.01
2 modules
Dimensions: 80x80x9 mm

14643.AB.01
4 (2+2) modules
Dimensions: 150,5x80x9 mm

14644.AB.01
6 (2+2+2) modules
Dimensions: 193,5x80x9 mm

14669.AB.01
8 (2+2+2+2) modules
Dimensions: 293x80x9 mm

14653.AB.01
3 modules
Dimensions: 119,5x80x9 mm

14654.AB.01
4 modules
Dimensions: 142x80x9 mm

14657.AB.01
7 modules
Dimensions: 206x80x9 mm

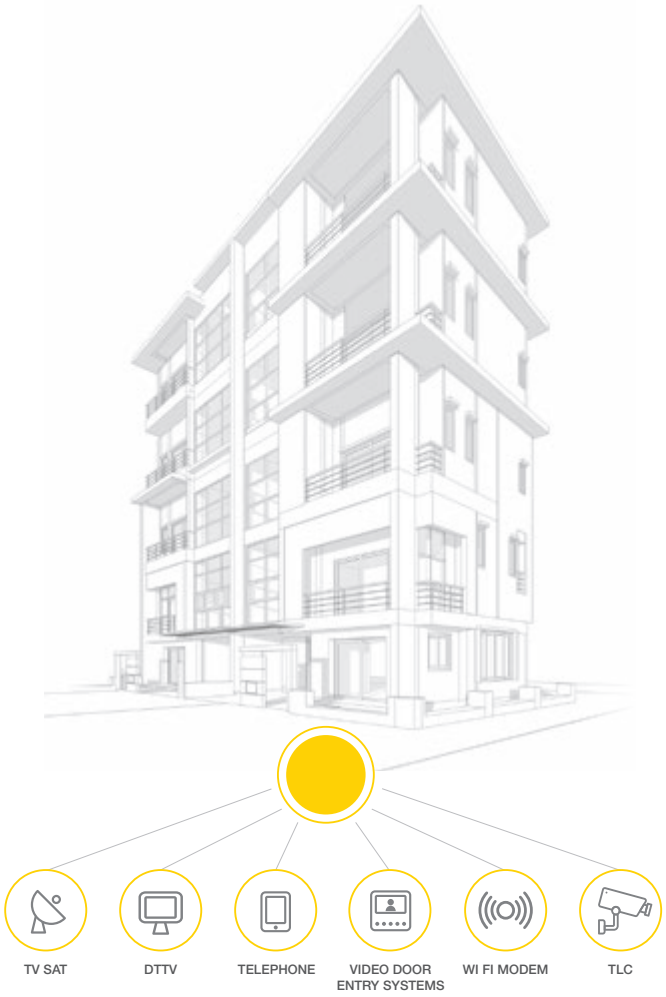
NETSAFE: STRUCTURED WIRING SYSTEM.

A complete range to support an advanced, multi-service system.

Developed to comply with the most recent regulations on residential structured wiring for FTTH (Fiber to the Home), the Netsafe range is used to create fibre optic connections up to the single residential units, ensuring maximum transmission speed. This solution also leads to the creation of an authentic multi-service system which, in a single fiber optic infrastructure, ensures the management of all those services that historically required the installation of a specific custom-designed system: telephone, satellite TV, terrestrial TV, Internet, video surveillance, video door entry systems, etc.
The whole Netsafe range is a byword for rapid installation, certified quality and safety, with a warranty of no less than three years, one more than the statutory requirement.

From buildings to individual homes.

In the home, the signal is transmitted and reaches the individual devices connected in each room thanks to a distribution board. This is the heart of connectivity and contains the active network distribution tools (such as routers, TLC network terminations, any media converters, network switches). It guarantees excellent performances and a perfect connection, with no interference.



Copper and fiber optic wiring products.

Connections displaying even better performances, thanks to the range of structured fibre optic and copper wiring devices: new RJ45 connectors and socket outlets, cords and cables in category 6A, HDMI socket outlets with 90° cable output and new control panels and cabinets offering fully flexible installation.

Aesthetic coordination.

To match the style of each building, the whole Netsafe fibre optic and copper range was designed to offer full aesthetic and functional coordination, guaranteeing a stylistic approach that is fully coordinated with the design, materials and colours of the Eikon, Arké and Plana residential series.

Flush-mounted control panels.

The control panel has an ultra-modern, elegant design that you cannot afford not to show off, designed to minimise its aesthetic impact on the wall. It meets all installation needs on any kind of wall, whether flush-mounting masonry or plasterboard. From 8 to 72 modules, featuring an opaque or transparent door that can open at 180° to the left or the right, magnetic block or key lock and many accessories to facilitate the installation and wiring of individual components and entire batteries, wired both vertically or horizontally.

Flexible installation.

Offering fully flexible installation, the range is completed with the new control panels and cabinets for housing active and passive components in local networks.

Netsafe: structured wiring system

Typical system: 90 m² apartment with data distribution system and multimedia socket outlets.

The Vimar **Netsafe** range was developed to comply with the most recent regulations concerning structured residential wiring for FTTH (Fiber to the Home), and is used to create fibre optic connections up to the single residential units, ensuring maximum transmission speed.
This solution also leads to the creation of an authentic multi-service system which, in a single fiber optic infrastructure, manages all those services that historically required the installation of a specific custom-designed system: telephone, satellite TV, terrestrial TV, Internet, video surveillance, video door entry systems, etc.
The example shows a data distribution system and multimedia socket outlets in a 90 m² apartment.

- The signal distribution board is installed in the utility room, and conveys the fiber optic and copper data network inside the building.
- Optical socket outlets 19350.SC, RJ45 data socket outlets 19339.15 and telephone socket outlets 19321 are installed in the kitchen, lounge and bedrooms.
- The two bedrooms and the lounge also have HDMI socket outlets 19346 for transmitting the high-resolution video signal.
- In the lounge, near the TV-SAT-FM socket outlet 19303, there are two speaker connectors 19583 and an RCA socket outlet 19335.

Connector for speaker system and RCA socket outlet.

Speaker system.

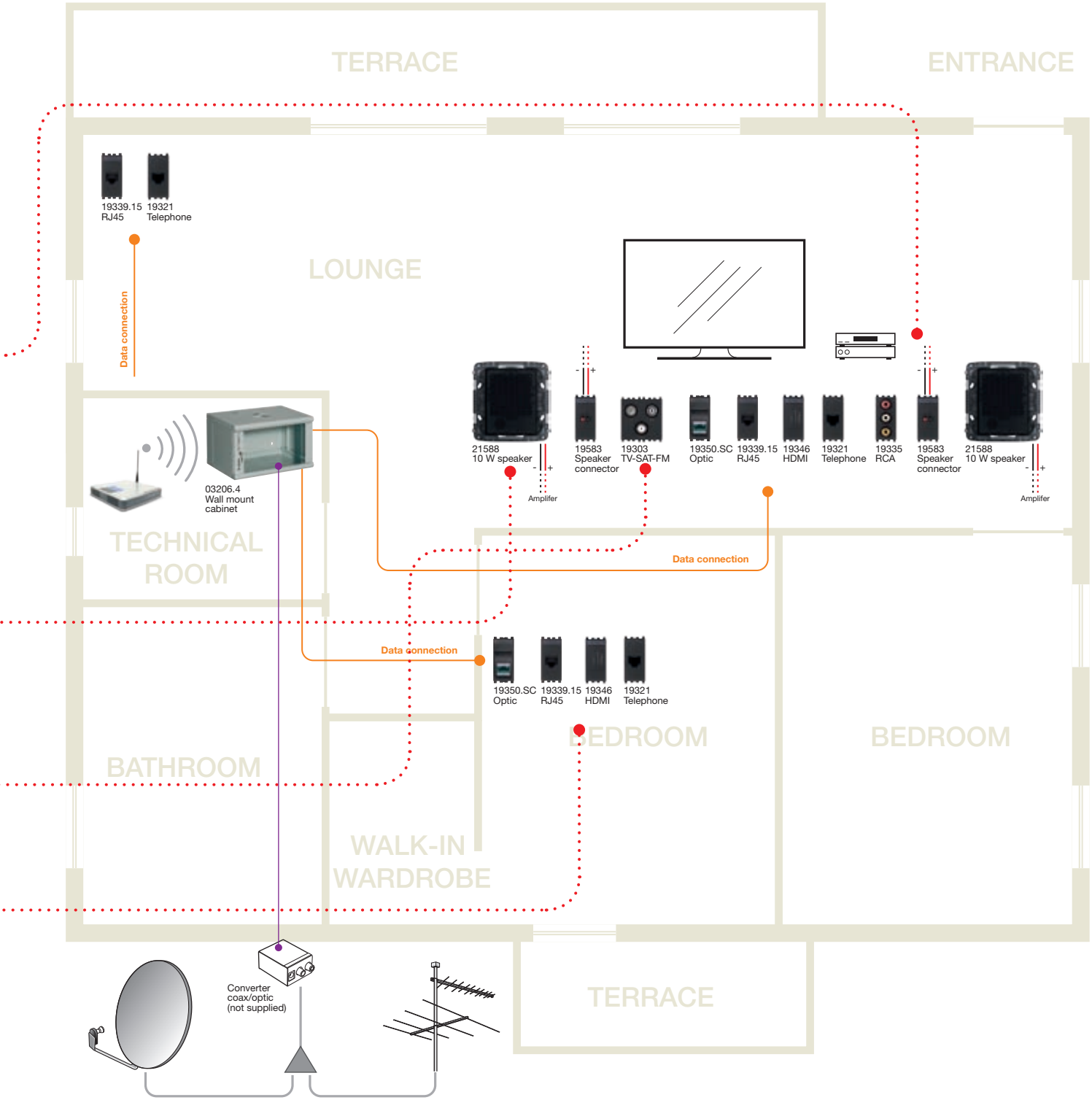
TV-FM-SAT socket outlet.

Data socket outlets for copper cable and fiber optic cable.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: 90 m² apartment with data distribution system and multimedia socket outlets.



Data cables (optical, ethernet, telephone, coaxial) — Power supply 230 V~ — Speaker connections — Patch cord from SC/APC to SC/APC

NETSAFE

Typical system: office with data distribution system and multimedia socket outlets.

Vimar offers a wide range of signal socket outlets for data transfer for both copper and fibre optic networks, as well as telephone, TV, FM, SAT, USB, RCA and HDMI sockets.
Netsafe is the Vimar structured wiring system for connecting the entire building in a network (Cat. 5e, Cat. 6 and Cat. 6A shielded or unshielded).
The example shows a data distribution system and multimedia socket outlets in a commercial building with three offices, a multimedia room, a meeting room and a reception area.

- The reception area has a data socket for connecting a PC to the network, an RJ45 data socket, a telephone socket outlet and a USB socket outlet for charging electronic devices.
- The reception area gives access to the utility room, where a signal distribution board is installed; this conveys the building data network into the single unit and contains the Wi-Fi access point.
- There is also a Netsafe cabinet containing the patch panels for distribution of the various data signals.
- In the three offices there are from two to four workstations with respective data, telephone and HDMI socket outlets and a flush-mounted Wi-Fi access point.
- Installed in the multimedia room there are 2 flush mounted speakers, 8 modules (4+4) and 2 connectors for additional speakers, data, telephone, HDMI, RCA, VGA and TV-SAT-FM socket outlets for the connection of Hi-Fi or video projection devices, a USB socket outlet for charging smartphones and tablets and a Wi-Fi access point.
- The meeting room is equipped with data and telephone socket outlets to connect laptops, and a flush-mounted Wi-Fi access point.

Wi-Fi access point and HDMI socket outlet.

USB socket outlets, socket outlet for RJ45 socket outlet connector and fibre optics connector.

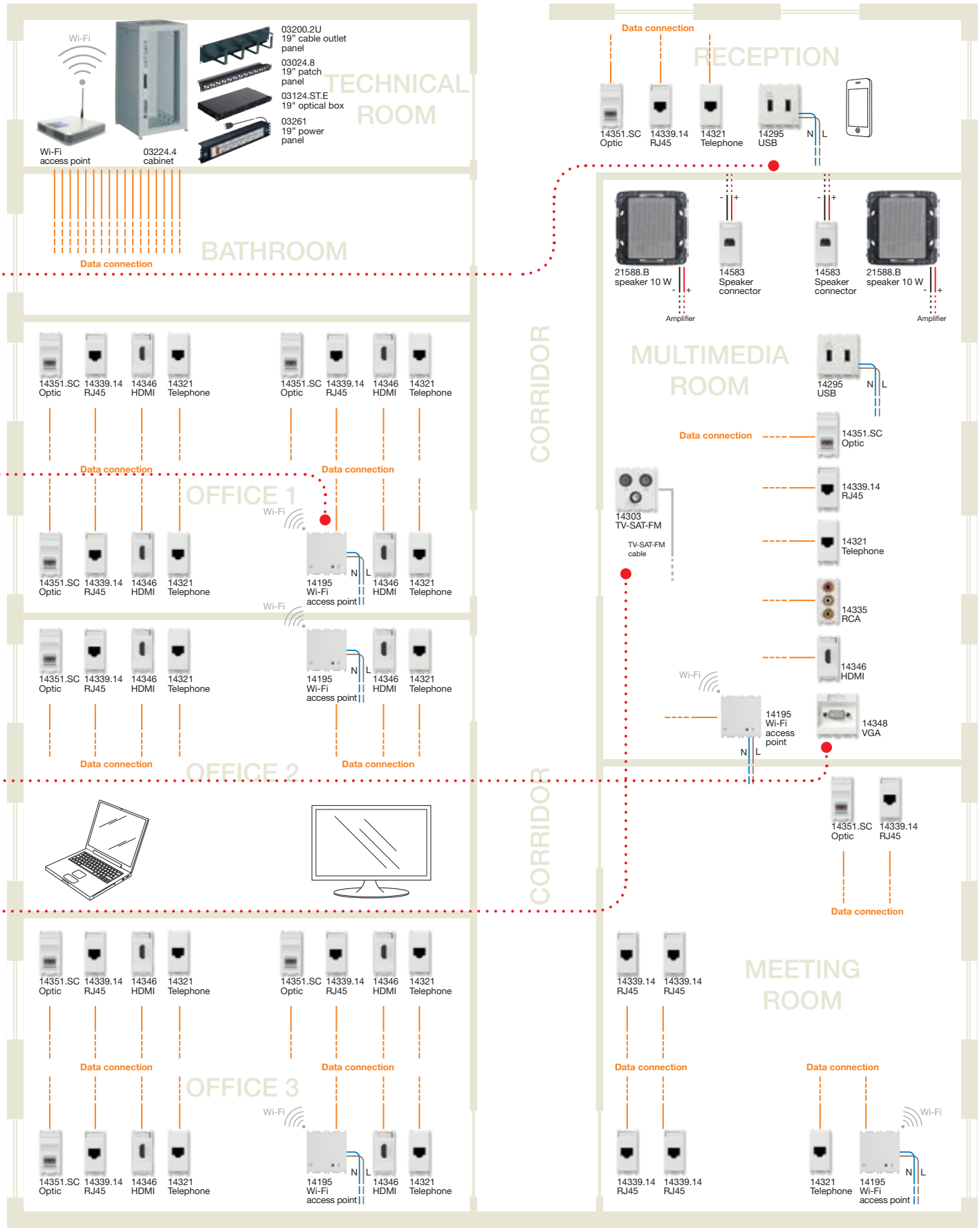
RCA and VGA socket outlets.

Socket outlets for speakers and TV-SAT-FM socket outlet.

What to do:

For more details on device installation and configuration, refer to the documentation available in the Products section on the website **www.vimar.com**.

Typical system: offices with data distribution system and multimedia socket outlets.



Data cables (optical, ethernet, telephone, coaxial) — Power supply 230 V~ — Speaker connections

SOLUTIONS

Secure and fast connections are essential for communicating, transferring and sharing data, images and videos of any dimension. The Netsafe structured wiring system connects all the work environments in a building. The system consists of a very wide range of instruments: versatile, simple to install and high performing solutions **for copper and fibre optic networks** provide a very wide range of action.
Networks can be created in **categories 5e**, **6** and **6A**, shielded and unshielded, and with **fiber optic technology** to ensure **stable connections** over time and high performances.

The **RJ45 connectors,** self-crimping or wireable with tools, **socket outlets for fibre optic cable**, **cables** with 4 copper pairs and for fibre optics, **patch panels** with or without devices, **surface mounting cabinets** and panels **with from 6 to 42 rack units** and accessories are used to create different types of structured wiring suitable for any installation needs, from small freelance offices to service industry buildings and small and large residential complexes.

Horizontal copper wiring

Horizontal copper wiring is the name used to refer to the connections between the floor cabinet and the workstations.
The network topology or conformation is star-type: all devices are connected to a single central unit (fig. 1).

Each RJ45 socket outlet placed near a workstation must correspond to an analogue one in the patch panel (installed in the floor cabinet); the socket outlets are connected to each other via a twisted copper cable sheathed in 4 pairs. Any socket outlet installed can be used as either a data or telephone socket outlet.

Distances

The standards require the presence of a maximum distance of 100 m between the live appliance in the floor cabinet and the user device.

The maximum recommended distance between the socket outlet installed in the floor cabinet and the analogue one near the workstation is 90 m; the maximum total length for patch cords and for connecting the user devices is 10 m.

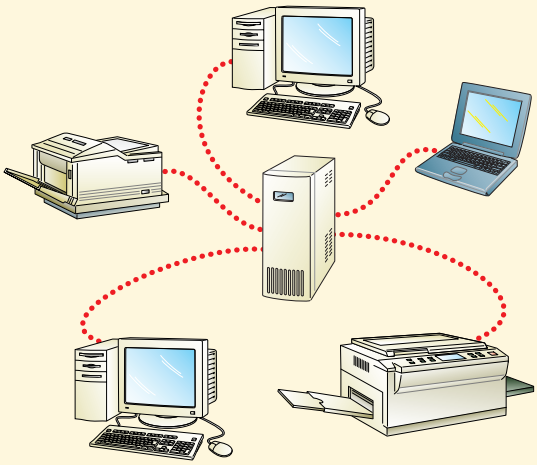
It is advisable to limit the distance between two consecutive junction boxes to 30 m; arrange the raceways with a wide radius of curvature in such a way as to prevent damage to the cables; not to pull the cables excessively when laying them.

Cable

The only cable permitted is the twisted pair with 4 twisted pairs, twisted two by two, in single copper wire with standard sections which can vary, depending on the category, from 24 AWG to 23 AWG (American Wire Gauge: unit of measurement corresponding to 24 AWG = 0.21 mm^2 and 23 AWG = 0.26 mm^2).

The pair insulation is polyethylene, the external sheath is in PVC. Cables with external coating called LSZH (Low Smoke Zero Halogen) are made from halogen-free materials which have very low smoke emissions in the event of combustion.

Figure 1 - Star-type conformation



Socket connector

Each workstation must have at least two RJ45 socket outlets positioned every 7/8 m^2.

Structured wiring: regulations

All the components in a structured wiring system must comply with the regulatory standards which define the minimum specifications for guaranteeing constant quality and performance over time. Standardisation in telecommunication systems was developed from 1985 in the United States by the EIA (Electronic Industries Association) and the TIA (Telecommunications Industry Association), at the request of the CCIA (Computer & Communications Industry Association).

Regulatory compliance

ANSI/TIA 568-C.2, ISO/IEC 11801, EN 50173-1, IEC 60603-7.

Vertical fiber optic wiring (FTTH - Fiber To The Home)

Fiber optics are classified as dielectric waveguides used to convey and guide an electromagnetic field of a sufficiently high frequency (generally near infra-red) with extremely limited losses. They are generally used in telecommunications for optical signal transmission even over large distances, or to carry signals and provide access to wired broadband networks (from 100 Mbit/s to Tbit/s using the most advanced WDM technologies).
These fibres are available in the form of cables, flexible, immune to electrical disturbances and the most extreme weather conditions and insensitive to temperature variations.
Today fiber optics is a consolidated and essential component of the telecommunications industry and related optical communication: all major telephone and Internet backbones, including intercontinental submarine connections, are already in fiber optics, which replaced the classic coaxial cable some time ago.

The main advantages of fiber optics are:
- low attenuation, making transmission possible over long distances without repeaters;
- huge information-carrying capacity;
- high transmission speed due to the very broad bandwidth and low attenuation of the useful signal;
- immunity to electromagnetic interference;
- high electrical resistance, so fibres can be used near connections with different potential;
- excellent resistance to adverse weather conditions.

A fiber optic cable is usually much smaller and lighter than a coaxial cable or wire and is easier to handle and install, so is ideal for safe communications.

Eikon Arké Plana

Aesthetic coordination

With both fiber optic and copper wiring, all components in the system can be perfectly matched to the Eikon, Arké and Plana series, making it possible to create user IT points that are coordinated with the rest of the electrical system.

Fiber optic wiring

Wi-Fi access point

20195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, grey - 2 modules. Depth: 41 mm

20195.B
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white - 2 modules. Depth: 41 mm

20195.N
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Next - 2 modules. Depth: 41 mm

19195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, grey - 2 modules. Depth: 40,7 mm

19195.B
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white - 2 modules. Depth: 40,7 mm

19195.M
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Metal - 2 modules. Depth: 40,7 mm

14195
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, white - 2 modules. Depth: 40 mm

14195.SL
Wi-Fi 72,2 Mb/s Access Point with 2 10-100 Mb/s LAN ports, input for remote Wi-Fi radio on/off push button, supply voltage 230 V~ 50/60 Hz, Silver - 2 modules. Depth: 40 mm

Socket connectors

20350.SC
Monomode 9/125 µm, with SC/APC simplex adapter, grey. Depth: 19,4 mm

20350.SC.B
Monomode 9/125 µm, with SC/APC simplex adapter, white. Depth: 19,4 mm

20350.SC.N
Monomode 9/125 µm, with SC/APC simplex adapter, Next. Depth: 19,4 mm

19350.SC
Monomode 9/125 µm, with SC/APC simplex adapter, grey. Depth: 19,4 mm

19350.SC.B
Monomode 9/125 µm, with SC/APC simplex adapter, white. Depth: 19,4 mm

19350.SC.M
Monomode 9/125 µm, with SC/APC simplex adapter, Metal. Depth: 19,4 mm

14350.SC
Monomode 9/125 µm, with SC/APC simplex adapter, white. Depth: 19,4 mm

14350.SC.SL
Monomode 9/125 µm, with SC/APC simplex adapter, Silver. Depth: 19,4 mm

20350.LC
Monomode 9/125 µm, with LC duplex adapter, grey. Depth: 19,7 mm

20350.LC.B
Monomode 9/125 µm, with LC duplex adapter, white. Depth: 19,7 mm

20350.LC.N
Presa monomodale 9/125 µm, with LC duplex adapter, Next. Depth: 19,7 mm

19350.LC
Monomode 9/125 µm, with LC duplex adapter, grey. Depth: 19,3 mm

19350.LC.B
Monomode 9/125 µm, with LC duplex adapter, white. Depth: 19,3 mm

19350.LC.M
Monomode 9/125 µm, with LC duplex adapter, Metal. Depth: 19,3 mm

14350.LC
Monomode 9/125 µm, with LC duplex adapter, white. Depth: 19,6 mm

14350.LC.SL
Monomode 9/125 µm, with LC duplex adapter, Silver. Depth: 19,6 mm

20351.SC
Multimode 50/125 µm, with SC simplex adapter, grey. Depth: 19,4 mm

20351.SC.B
Multimode 50/125 µm, with SC simplex adapter, white. Depth: 19,4 mm

20351.SC.N
Multimode 50/125 µm, with SC simplex adapter, Next. Depth: 19,4 mm

19351.SC
Multimode 50/125 µm, with SC simplex adapter, grey. Depth: 19,4 mm

19351.SC.B
Multimode 50/125 µm, with SC simplex adapter, white. Depth: 19,4 mm

19351.SC.M
Multimode 50/125 µm, with SC simplex adapter, Metal. Depth: 19,4 mm

14351.SC
Multimode 50/125 µm, with SC simplex adapter, white. Depth: 19,4 mm

14351.SC.SL
Multimode 50/125 µm, with SC simplex adapter, Silver. Depth: 19,4 mm

20351.LC
Multimode 50/125 µm, with LC duplex adapter, grey. Depth: 17,9 mm

20351.LC.B
Multimode 50/125 µm, with LC duplex adapter, white. Depth: 17,9 mm

20351.LC.N
Multimode 50/125 µm, with LC duplex adapter, Next. Depth: 17,9 mm

19351.LC
Multimode 50/125 µm, with LC duplex adapter, grey. Depth: 18,2 mm

19351.LC.B
Multimode 50/125 µm, with LC duplex adapter, white. Depth: 18,2 mm

19351.LC.M
Multimode 50/125 µm, with LC duplex adapter, Metal. Depth: 18,2 mm

14351.LC
Multimode 50/125 µm, with LC duplex adapter, white. Depth: 17,9 mm

14351.LC.SL
Multimode 50/125 µm, with LC duplex adapter, Silver. Depth: 17,9 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Fiber optic wiring

Connectors, patch cords and cables

03103.SC
Connector for monomode fibre-optic cable 9/125 µm, type SC/APC, pre-terminated

03104.LC
Connector for monomode fibre-optic cable 9/125 µm, type LC pre-terminated

03107.SC
Connector for multimode fibre-optic cable 50/125 µm, type SC, pre-terminated

03108.LC
Connector for multimode fibre-optic cable 50/125 µm, type LC, pre-terminated

03113.SC
Patch cord from SC/APC to SC/APC, 9/125 µm OS2 duplex monomode fibre-optic cable, with LSZH jacket - 2 m

03113.LC
Patch cord from LC to LC, 9/125 µm OS2 duplex monomode fibre-optic cable, with LSZH jacket - 2 m

03113.SC.LC
Patch cord from SC/APC to LC/APC, 9/125 µm OS2 duplex monomode fibre-optic cable, with LSZH jacket - 2 m

03114.SC
Patch cord from SC to SC, multimode fibre-optic cable 50/125 µm OM3 duplex, with LSZH jacket - 2 m

03114.LC
Patch cord from LC to LC, multimode fibre-optic cable 50/125 µm OM3, with LSZH jacket - 2 m

03114.SC.LC
Patch cord from SC to LC, multimode fibre-optic cable 50/125 µm OM3, with LSZH jacket - 2 m

03117.ST
Pigtail ST, monomode 9/125 µm OS2 simplex fibre-optic - 2 m

03117.SC
Pigtail SC/APC, monomode 9/125 µm OS2 simplex fibre-optic - 2 m

03117.LC
Pigtail LC, monomode 9/125 µm OS2 simplex fibre-optic - 2 m

03118.ST
Pigtail ST, multimode fibre-optic cable 50/125 µm OM3 simplex - 2 m

03118.SC
Pigtail SC, multimode fibre-optic cable 50/125 µm OM3 simplex - 2 m

03118.LC
Pigtail LC, multimode fibre-optic cable 50/125 µm OM3 simplex - 2 m

03147.E
9/125 µm OS2 (G.657.A2) monomodal loose fiber-optic cable, 4-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), yellow - 500 m reel

03148.E
9/125 µm OS2 (G.657.A2) monomodal loose fiber-optic cable, 8-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), yellow - 500 m reel

03149.E
9/125 µm OS2 (G.657.A2) monomodal loose fiber-optic cable, 12-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), yellow - 500 m reel

03152.E
50/125 µm OM2 multimodal loose fiber-optic cable, 12-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), orange - 500 m reel

03153.E
50/125 µm OM3 multimodal loose fiber-optic cable, 4-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), sea-green - 500 m reel

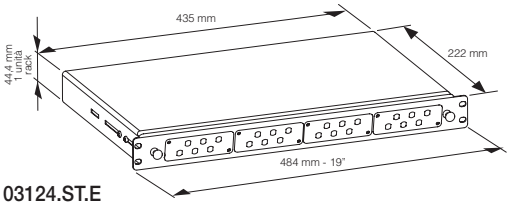
03154.E
50/125 µm OM3 multimodal loose fiber-optic cable, 8-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), sea-green - 500 m reel

03155.E
50/125 µm OM3 multimodal loose fiber-optic cable, 12-fiber, with LSZH sheath, CPR Eca class, suitable for installation with I Category power supply cables (U0 = 400 V), sea-green - 500 m reel

Fiber optic wiring

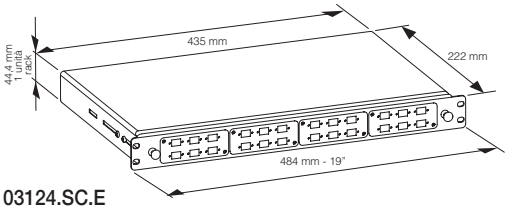
Fibre-optic trays and accessories

03124.ST.E
19" fibre-optic tray ready for 24 optical adaptors for ST connectors, removable front panel - 1 rack unit



03124.ST.E

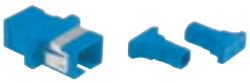
03124.SC.E
19" fibre-optic tray ready for 24 optical adaptors for SC or LC connectors, removable front panel - 1 rack unit



03124.SC.E

03100.SC
Monomode 9/125 µm adaptor, SC/APC, for fibre-optic trays 03124.SC.E

03100.LC
Monomode 9/125 µm adaptor, LC, for fibre-optic trays 03124.SC.E



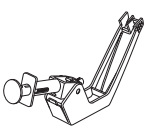
03101.SC
SC optical adaptor for fibre-optic trays 03124.SC.E

03101.LC
LC optical adaptor for fibre-optic trays 03124.SC.E

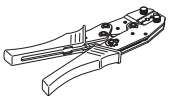
03255
Set of tools and accessories for installing connectors for SC and ST type fibre-optic cables

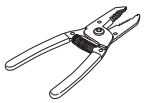
Contents of the Kit


Clamp for fixing termination tool

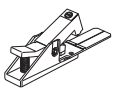

Tool for terminating the connector


Microscope


Crimping pliers


Pliers for removing outer sheath


Pliers for removing outer sheath on 125 fibres

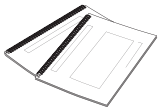

Fibre cutting tool


Tweezers


Waste container


Marker pen


Calibrated templates


Manuals with instructions for terminating

Netsafe: structured wiring system

EIKON	ARKÉ	IDEA	PLANA	8000

Copper wiring

RJ45 sockets - UTP

20338.8
Cat. 5e, UTP, grey.
Depth: 23,6 mm

20338.8.B
Cat. 5e, UTP, white.
Depth: 23,6 mm

20338.8.N
Cat. 5e, UTP, Next.
Depth: 23,6 mm

20339.4
Cat. 5e, UTP, 110 compatible, grey.
Depth: 24 mm

20339.4.B
Cat. 5e, UTP, 110 compatible, white.
Depth: 24 mm

20339.4.N
Cat. 5e, UTP, 110 compatible, Next.
Depth: 24 mm

20339.11
Cat. 5e, UTP, grey.
Depth: 30,3 mm

20339.11.B
Cat. 5e, UTP, white.
Depth: 30,3 mm

20339.11.N
Cat. 5e, UTP, Next.
Depth: 30,3 mm

20340.1
Panduit (MINI-COM) Cat. 5e, UTP, grey.
Depth: 28,55 mm

20340.1.B
Panduit (MINI-COM) Cat. 5e, UTP, white.
Depth: 28,55 mm

20340.1.N
Panduit (MINI-COM) Cat. 5e, UTP, Next.
Depth: 28,55 mm

19339.11
Cat. 5e, UTP, grey.
Depth: 29,8 mm

19339.11.B
Cat. 5e, UTP, white.
Depth: 29,8 mm

19339.11.M
Cat. 5e, UTP, Metal.
Depth: 29,8 mm

19340.1
Panduit (MINI-COM) Cat. 5e, UTP, grey.
Depth: 28,3 mm

19340.1.B
Panduit (MINI-COM) Cat. 5e, UTP, white.
Depth: 28,3 mm

16358.8
Cat. 5e, UTP, grey.
Depth: 24,7 mm

16358.8.B
Cat. 5e, UTP, white.
Depth: 24,7 mm

16359.4
Cat. 5e, UTP, 110 compatible, grey.
Depth: 24,1 mm

16359.4.B
Cat. 5e, UTP, 110 compatible, white.
Depth: 24,1 mm

16359.11
Cat. 5e, UTP, grey.
Depth: 30,1 mm

16359.11.B
Cat. 5e, UTP, white.
Depth: 30,1 mm

16364.1
Panduit (MINI-COM) Cat. 5e, UTP, grey.
Depth: 27,75 mm

16364.1.B
Panduit (MINI-COM) Cat. 5e, UTP, white.
Depth: 27,75 mm

14338.8
Cat. 5e, UTP, white.
Depth: 22,6 mm

14338.8.SL
Cat. 5e, UTP, Silver.
Depth: 22,6 mm

14339.4
Cat. 5e, UTP, 110 compatible, white.
Depth: 23,7 mm

14339.4.SL
Cat. 5e, UTP, 110 compatible, Silver.
Depth: 23,7 mm

14339.11
Cat. 5e, UTP, white.
Depth: 29,3 mm

14339.11.SL
Cat. 5e, UTP, Silver.
Depth: 29,3 mm

14340.1
Panduit (MINI-COM) Cat. 5e, UTP, white.
Depth: 24,3 mm

14340.1.SL
Panduit (MINI-COM) Cat. 5e, UTP, Silver.
Depth: 24,3 mm

08458.8
Cat. 5e, UTP, ivory.
- special module
Depth: 24,2 mm

08459.11
Cat. 5e, UTP, ivory
- special module
Depth: 30,1 mm

EIKON	ARKÉ	IDEA	PLANA	8000

Copper wiring

RJ45 sockets - UTP

20339.6
Cat. 6, UTP, 110 compatible, grey.
Depth: 24 mm

20339.6.B
Cat. 6, UTP, 110 compatible, white.
Depth: 24 mm

20339.6.N
Cat. 6, UTP, 110 compatible, Next.
Depth: 24 mm

16359.6
Cat. 6, UTP, 110 compatible, grey.
Depth: 24,1 mm

16359.6.B
Cat. 6, UTP, 110 compatible, white.
Depth: 24,1 mm

14339.6
Cat. 6, UTP, 110 compatible, white.
Depth: 24 mm

14339.6.SL
Cat. 6, UTP, 110 compatible, Silver.
Depth: 24 mm

08459.6
Cat. 6, UTP, 110 compatible, ivory. - special module.
Depth: 24,1 mm

20339.13
Cat. 6, UTP, grey.
Depth: 30,3 mm

20339.13.B
Cat. 6, UTP, white.
Depth: 30,3 mm

20339.13.N
Cat. 6, UTP, Next.
Depth: 30,3 mm

19339.13
Cat. 6, UTP, grey.
Depth: 29,8 mm

19339.13.B
Cat. 6, UTP, white.
Depth: 29,8 mm

19339.13.M
Cat. 6, UTP, Metal.
Depth: 29,8 mm

14339.13
Cat. 6, UTP, white.
Depth: 29,3 mm

14339.13.SL
Cat. 6, UTP, Silver.
Depth: 29,3 mm

14339.AB.13
As above, with antibacterial treatment

20339.15
Cat. 6A, UTP, grey.
Depth: 30,3 mm

20339.15.B
Cat. 6A, UTP, white.
Depth: 30,3 mm

20339.15.N
Cat. 6A, UTP, Next.
Depth: 30,3 mm

19339.15
Cat. 6A, UTP, grey.
Depth: 29,8 mm

19339.15.B
Cat. 6A, UTP, white.
Depth: 29,8 mm

19339.15.M
Cat. 6A, UTP, Metal.
Depth: 29,8 mm

14339.15
Cat. 6A, UTP, white.
Depth: 29,3 mm

14339.15.SL
Cat. 6A, UTP, Silver.
Depth: 29,3 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

EIKON	ARKÉ	IDEA	PLANA	8000

Copper wiring

RJ45 sockets - FTP

20339.5
Cat. 5e, FTP, 110 compatible, grey.
Depth: 36,15 mm

20339.5.B
Cat. 5e, FTP, 110 compatible, white.
Depth: 36,15 mm

20339.5.N
Cat. 5e, FTP, 110 compatible, Next.
Depth: 36,15 mm

16359.5
Cat. 5e, FTP, 110 compatible, grey.
Depth: 36 mm

16359.5.B
Cat. 5e, FTP, 110 compatible, white.
Depth: 36 mm

14339.5
Cat. 5e, FTP, 110 compatible, white.
Depth: 36,5 mm

14339.5.SL
Cat. 5e, FTP, 110 compatible, Silver.
Depth: 36,5 mm

08459.5
Cat. 5e, FTP, 110 compatible, ivory - special module.
Depth: 36,1 mm

19340.2
Panduit (MINI-COM) Cat. 5e, FTP, grey.
Depth: 29,1 mm

19340.2.B
Panduit (MINI-COM) Cat. 5e, FTP, white.
Depth: 29,1 mm

16364.2
Panduit (MINI-COM) Cat. 5e, FTP, grey.
Depth: 28,75 mm

16364.2.B
Panduit (MINI-COM) Cat. 5e, FTP, white.
Depth: 28,75 mm

14340.2
Panduit (MINI-COM) Cat. 5e, FTP, white.
Depth: 32 mm

14340.2.SL
Panduit (MINI-COM) Cat. 5e, FTP, Silver.
Depth: 32 mm

20339.14
Cat. 6, FTP, grey.
Depth: 30,3 mm

20339.14.B
Cat. 6, FTP, white.
Depth: 30,3 mm

19339.14
Cat. 6, FTP, grey.
Depth: 29,8 mm

19339.14.B
Cat. 6, FTP, white.
Depth: 29,8 mm

14339.14
Cat. 6, FTP, white.
Depth: 29,3 mm

14339.14.SL
Cat. 6, FTP, Silver.
Depth: 29,3 mm

14339.AB.14
As above, with antibacterial treatment

20339.14.N
Cat. 6, FTP, Next.
Depth: 30,3 mm

19339.14.M
Cat. 6, FTP, Metal.
Depth: 29,8 mm

20339.16
Cat. 6A, FTP, grey.
Depth: 30,3 mm

20339.16.B
Cat. 6A, FTP, white.
Depth: 30,3 mm

19339.16
Cat. 6A, FTP, grey.
Depth: 29,8 mm

19339.16.B
Cat. 6A, FTP, white.
Depth: 29,8 mm

14339.16
Cat. 6A, FTP, grey.
Depth: 29,3 mm

14339.16.B
Cat. 6A, FTP, white.
Depth: 29,3 mm

20339.16.N
Cat. 6A, FTP, Next.
Depth: 30,3 mm

19339.16.M
Cat. 6A, FTP, Metal.
Depth: 29,8 mm

EIKON	ARKÉ	IDEA	PLANA

Copper wiring

Adaptor for RJ45 connectors

20338.C
Cat. 5/6, AMP, Lucent T., grey.
Depth: 11 mm

20338.C.B
Cat. 5/6, AMP, Lucent T., white.
Depth: 11 mm

20338.C.N
Cat. 5/6, AMP, Lucent T., Next.
Depth: 11 mm

19338.C
Cat. 5/6, AMP, Lucent T., grey.
Depth: 10 mm

19338.C.B
Cat. 5/6, AMP, Lucent T., white.
Depth: 10 mm

19338.C.M
Cat. 5/6, AMP, Lucent T., Metal.
Depth: 10 mm

16358.C
Cat. 5/6, AMP, Lucent T., grey.
Depth: 11 mm

16358.C.B
Cat. 5/6, AMP, Lucent T., white.
Depth: 11 mm

14338.C
Cat. 5/6, AMP, Lucent T., white.
Depth: 10 mm

14338.C.SL
Cat. 5/6, AMP, Lucent T., Silver.
Depth: 10 mm

16365.C
Cat. 5/6, R&M, IBM, grey.
Depth: 11 mm

16365.C.B
Cat. 5/6, R&M, IBM, white.
Depth: 11 mm

19341.C
Cat. 5e/6 of Slim of Infra+, Merlin Gerin, grey.
Depth: 10 mm

19341.C.B
Cat. 5e/6 of Slim of Infra+, Merlin Gerin, white.
Depth: 10 mm

19341.C.M
Cat. 5e/6 of Slim of Infra+, Merlin Gerin, Metal.
Depth: 10 mm

14341.C
Cat. 5e/6 of Slim of Infra+, Merlin Gerin, white.
Depth: 10 mm

14341.C.SL
Cat. 5e/6 of Slim of Infra+, Merlin Gerin, Silver.
Depth: 10 mm

20343.K
Slating, Keystone, grey.
Depth: 11 mm

20343.K.B
Slating, Keystone, white.
Depth: 11 mm

20343.K.N
Slating, Keystone, Next.
Depth: 11 mm

19343.K
Slating, Keystone, grey.
Depth: 10 mm

19343.K.B
Slating, Keystone, white.
Depth: 10 mm

19343.K.M
Slating, Keystone, Metal.
Depth: 10 mm

14343.K
Slating, Keystone, white.
Depth: 10 mm

14343.K.SL
Slating, Keystone, Silver.
Depth: 10 mm

Adaptor for MINI-COM Panduit connectors

20340.C
Grey.
Depth: 11 mm

20340.C.B
White.
Depth: 11 mm

20340.C.N
Next.
Depth: 11 mm

19340.C
Grey.
Depth: 10 mm

19340.C.B
White.
Depth: 10 mm

19340.C.M
Metal.
Depth: 10 mm

16364.C
Grey.
Depth: 11 mm

16364.C.B
White.
Depth: 11 mm

14340.C
White.
Depth: 10 mm

14340.C.SL
Silver.
Depth: 10 mm

▲ New article ▲ New article, contact the commercial network for further information Δ Available until stocks last * Not to be used in European Countries

Netsafe: structured wiring system

Copper wiring

RJ45 connectors for 03024.E and 03303.E patch panels

03009.11
Cat. 5e, UTP

03009.13
Cat. 6, UTP

03009.14
Cat. 6, FTP

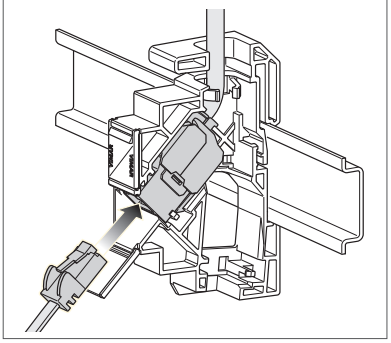
03009.15
Cat. 6A, UTP

03009.16
Cat. 6A, FTP

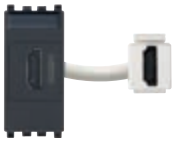
Patch module for DIN rail (60715 TH35) of RJ45 connectors - 1 x 17,5 mm module

03002.13
Supplied with Netsafe Cat6 UTP connector, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals without using tools

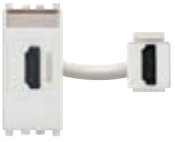
Patch module for DIN rail



Socket outlet with HDMI connector, Keystone fixing



20346
Grey.
Depth: 24,4 mm



20346.B
White.
Depth: 24,4 mm

20346.N
Next.
Depth: 24,4 mm

19346
Grey.
Depth: 24,4 mm

19346.B
White.
Depth: 24,4 mm

19346.M
Metal.
Depth: 24,4 mm

16334
Grey.
Depth: 23,8 mm

16334.B
White.
Depth: 23,8 mm

14346
White.
Depth: 23,4 mm

14346.SL
Silver.
Depth: 23,4 mm

Socket outlet with HDMI connector, Keystone fixing, 90° cable outlet

20346.H
Grey.
Depth: 30,5 mm

20346.H.B
White.
Depth: 30,5 mm

20346.H.N
Next.
Depth: 30,5 mm

19346.H
Grey.
Depth: 29,5 mm

19346.H.B
White.
Depth: 29,5 mm

19346.H.M
Metal.
Depth: 29,5 mm

16334.H
Grey.
Depth: 28,4 mm

16334.H.B
White.
Depth: 28,4 mm

14346.H
White.
Depth: 23,4 mm

14346.H.SL
Silver.
Depth: 23,4 mm

Copper wiring

Patch cords

03017.05
RJ45 Cat. 5e, U/UTP, 4 pairs, 24 AWG, PVC jacket, grey - 0,5 m

03017.1
As above, 1 m

03017.2
As above, 2 m

03017.3
As above, 3 m

03017.5
As above, 5 m

03018.05
RJ45 Cat. 5e, F/UTP, 4 pairs, 26 AWG, PVC jacket, white - 0,5 m

03018.1
As above, 1 m

03018.2
As above, 2 m

03018.3
As above, 3 m

03018.5
As above, 5 m

03019.05
RJ45 Cat. 6, U/UTP, 4 pairs, 24 AWG, PVC jacket, blue - 0,5 m

03019.1
As above, 1 m

03019.2
As above, 2 m

03019.3
As above, 3 m

03019.5
As above, 5 m

03019.02
RJ45 flat patch cord Cat. 6, U/UTP, 4 pairs, 30 AWG, PVC jacket, grey - 20 cm

03020.05
RJ45 Cat. 6, S/FTP, 4 pairs, 26 AWG, PVC jacket, blue - 0,5 m

03020.1
As above, 1 m

03020.2
As above, 2 m

03020.3
As above, 3 m

03020.5
As above, 5 m

03022.05
RJ45 Cat. 6A, S/FTP, 4 pairs, 26 AWG, PVC jacket, orange - 0,5 m

03022.1
As above, 1 m

03022.2
As above, 2 m

03022.3
As above, 3 m

03022.5
As above, 5 m

03090.W
Identifier for patch cords with RJ45 connctors, white - 30 pieces

03090.Y
As above, yellow

03090.B
As above, blue

03090.G
As above, green

03090.R
As above, red

Cables

03050.E
Cat. 5e, U/UTP, 4 pairs, 24 AWG, with PVC jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), grey - 305 m

03050.E.B
As above, 1000 m

03051.E
Cat. 5e, U/UTP, 4 pairs, 24 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), grey - 305 m

03060.E
Cat. 5e, F/UTP, 4 pairs, 24 AWG, with PVC jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), grey - 305 m

03061.E
Cat. 5e, F/UTP, 4 pairs, 24 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), grey - 305 m

03071.E
Cat. 6, U/UTP, 4 pairs, 23 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), green - 305 m

03076.E
Cat. 6, F/UTP, 4 pairs, 23 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), green - 500 m

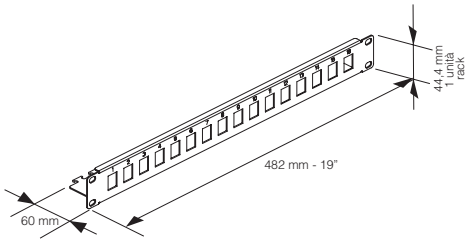
03081.E
Cat. 6A, U/UTP, 4 pairs, 23 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), orange - 500 m

03086.E
Cat. 6A, S/FTP, 4 pairs, 23 AWG, with LSZH jacket, CPR Eca class, suitable for I category cables (U0 = 400 V), orange - 500 m

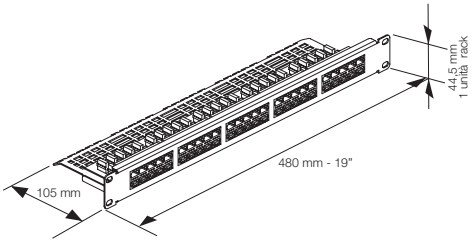
Copper wiring

19" patch panels

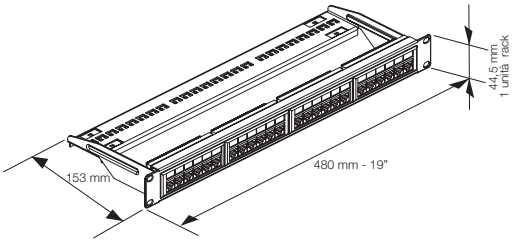
03024.E
16 empty ports - 1 rack unit.
To be completed with RJ45 connectors 03009...



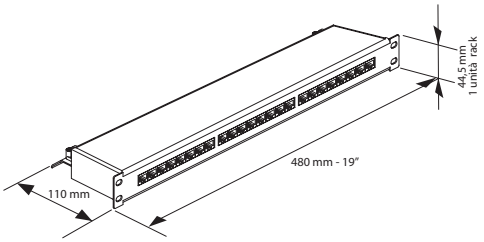
03024.3
50 RJ45 connectors for telephony, insulation-piercing terminals 110 compatible - 1 rack unit



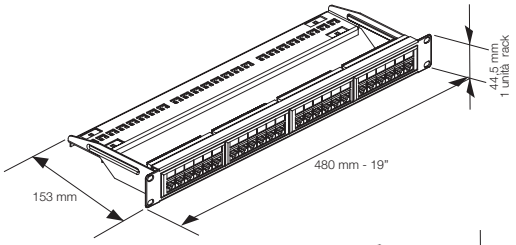
03024.4
24 RJ45 connectors Cat. 5e, unshielded, 568A/B universal wiring, 8 contacts, insulation-piercing terminals 110 compatible - 1 rack unit



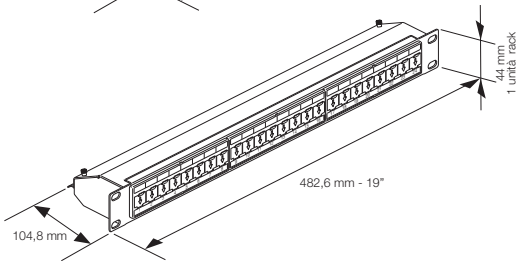
03024.5
24 RJ45 connectors Cat. 5e, shielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals 110 compatible - 1 rack unit



03024.6
24 RJ45 connectors Cat. 6, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals 110 compatible - 1 rack unit



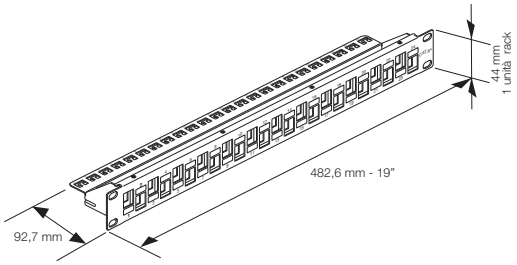
03024.7
24 RJ45 connectors Cat. 6, shielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals 110 compatible - 1 rack unit



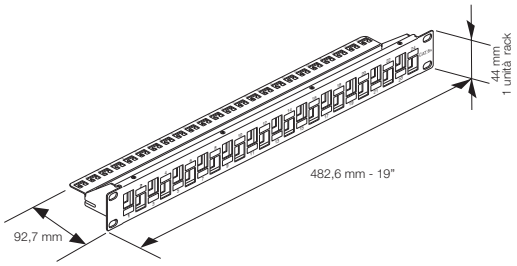
Copper wiring

19" patch panels

03024.8
24 RJ45 connectors Cat. 6A, unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals without using tools - 1 rack unit

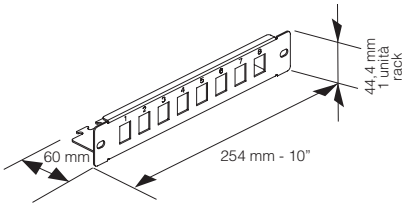


03024.9
24 RJ45 connectors Cat. 6A, shielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals without using tools - 1 rack unit

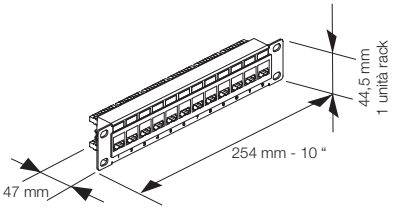


10" patch panels

03303.E
8 empty ports - 1 rack unit



03303.3
12 RJ45 connectors Cat. 6 unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals type 110 - 1 rack unit



Accessories

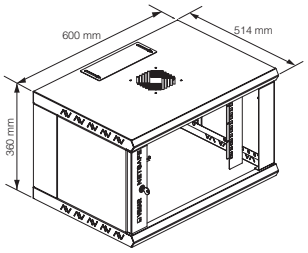
03250
Tool for terminating the twisted cable on insulation-piercing terminals type 110

Carpentry

Wall mount cabinets for installation of 19" panels

03206.4
Up to 6 rack units, RAL 7035.
Dimensions: 600x514x360 mm

03206.3P
Spare door for enclosure
03206.4

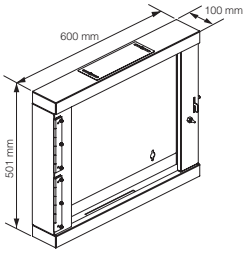


03206.4

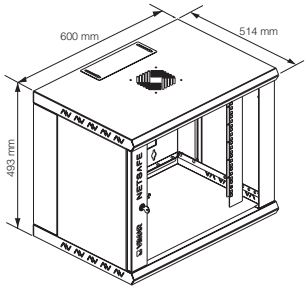
03209.4
Up to 9 rack units, RAL 7035.
Dimensions: 600x514x493 mm

03209.3P
Spare door for enclosure
03209.4

03209.3L
Spare door for enclosure
03209.4, weight 8 Kg



03209.3L

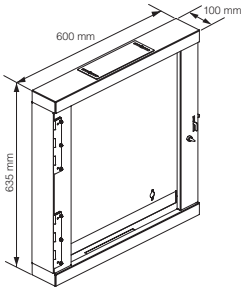


03209.4

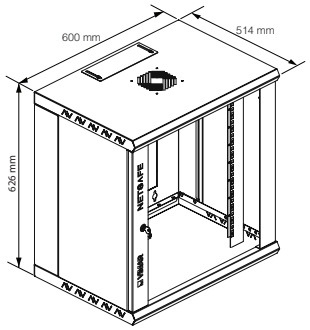
03212.4
Up to 12 rack units, RAL 7035.
Dimensions: 600x514x626 mm

03212.3P
Spare door for enclosure
03212.4

03212.3L
Spare door for enclosure
03212.4, weight 10 Kg



03212.3L

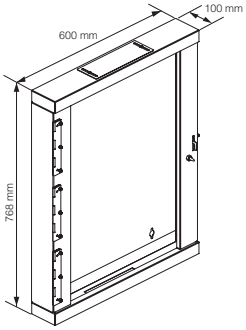


03212.4

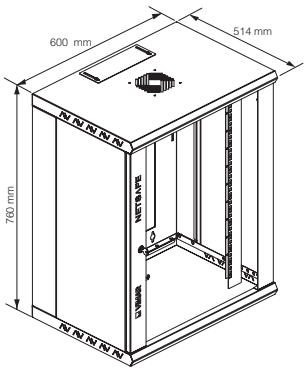
03215.4
Up to 15 rack units, RAL 7035.
Dimensions: 600x514x760 mm

03215.3P
Spare door for enclosure
03215.4

03215.3L
Spare door for enclosure
03215.4, weight 11 Kg



03215.3L



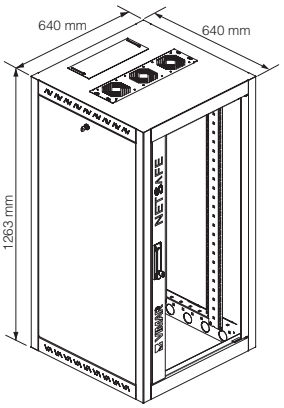
03215.4

Carpentry

Floor mount cabinets for installation of 19" panels

03224.4
Up to 25 rack units, couple of front columns, adjustable base, RAL 7035. Dimensions: 640x640x1263 mm, weight 57 Kg

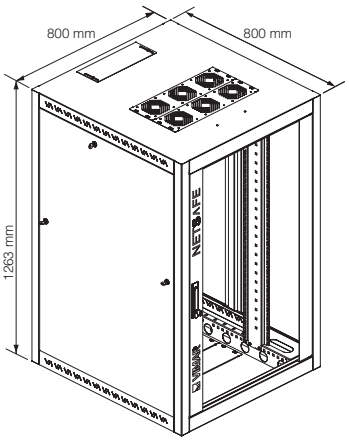
03224.3P
Spare door for cabinet 03224.4



03224.4

03225.4
Up to 25 rack units, couple of front columns, adjustable base, RAL 7035. Dimensions: 800x800x1263 mm, weight 77 Kg

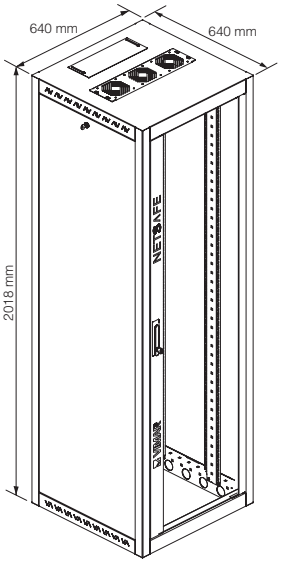
03225.4P
Spare door for cabinet 03225.4



03225.4

03242.4
Up to 42 rack units, couple of front columns, adjustable base, RAL 7035. Dimensions: 640x640x2018 mm, weight 82 Kg

03242.3P
Spare door for cabinet 03242.4



03242.4

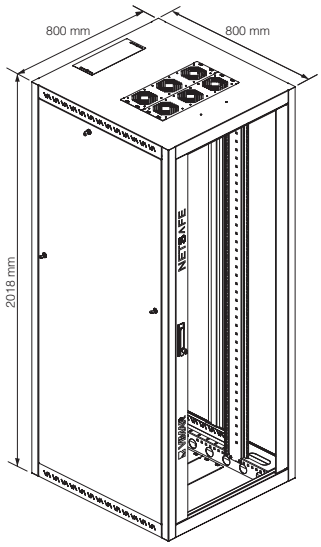
Carpentry

Floor mount cabinets for installation of 19" panels

03243.4
Up to 42 rack units, couple of front columns, adjustable base, RAL 7035. Dimensions: 800x800x2018 mm, weight 107 Kg

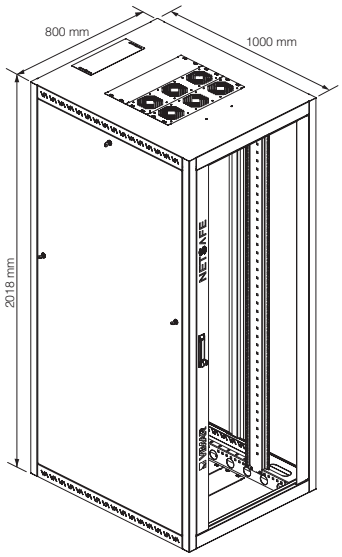
03242.4F
Micro perforated door for cabinets 03243.4 and 03245.4

03245.3P
Spare door for cabinets 03243.4 and 03245.4



03243.4

03245.4
Up to 42 rack units, couple of front columns, adjustable base, RAL 7035. Dimensions: 800x1000x2018 mm, weight 126 Kg

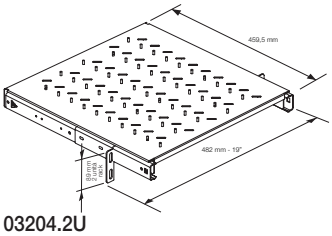


03245.4

Carpentry

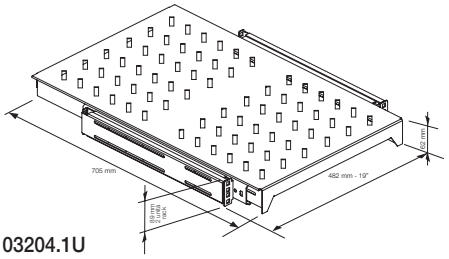
Organizer trays for cabinets

03204.2U
Removable - 2 rack units, 450 mm depth, maximum permissible load 20 Kg



03204.2U

03204.1U
Fisso - 2 rack units, 700 mm depth, maximum permissible load 100 Kg

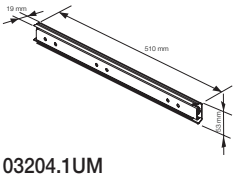


03204.1U

Accessories

03251
Set of vertical cable guide rings for cabinets

03204.1UM
Telescopic rails for fixed shelf 03204.1U. Maximum permissible load 50 Kg



03204.1UM

03242.4Z
Base for floor-cabinets 640x640 mm, RAL 7035

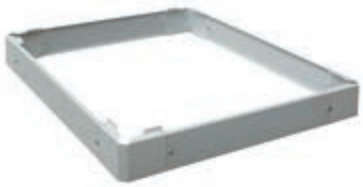
03243.4Z
Base for floor-cabinets 800x800 mm, RAL 7035

03225.4M
Set 2 columns for 25 rack units floor-cabinet

03242.4M
Set 2 columns for 42 rack units floor-cabinet

03258.3
Spare lock with 2 keys, made of metal for enclosures 03206.4, 03209.4, 03212.4 and 03215.4

03259.3
Spare handle with 2 keys, for cabinets 03224.4, 03242.4, 03243.4 and 03245.4



03245.4Z
Base for floor-cabinets 800x1000 mm, RAL 7035

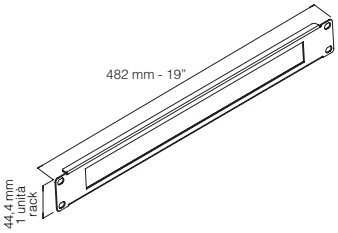
03224.3R
Set of wheels for cabinets 03224.4, 03242.4 and 03243.4

03245.3R
Set of wheels for cabinets 03245.4

Carpentry

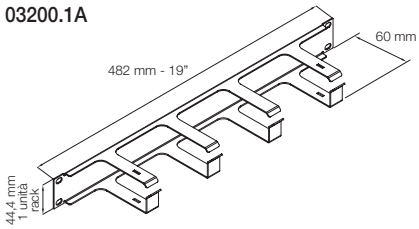
Accessories

03200.1A
19" panel with open cable outlet - 1 rack unit



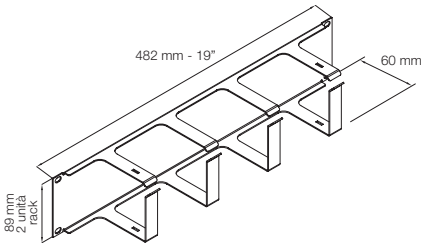
03200.1A

03200.1U
19" panel with cable outlet - 1 rack unit



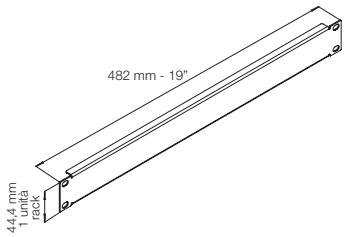
03200.1U

03200.2U
19" panel with cable outlet - 2 rack units



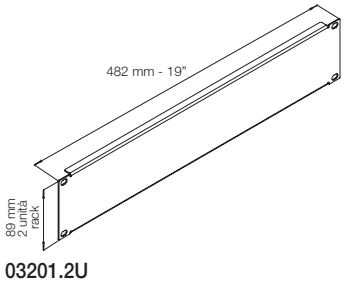
03200.2U

03201.1U
19" blind panel - 1 rack unit



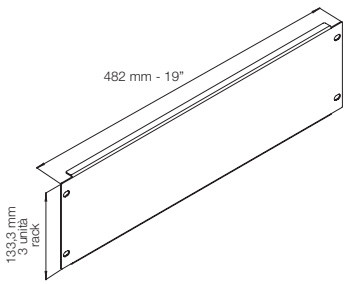
03201.1U

03201.2U
19" blind panel - 2 rack units



03201.2U

03201.3U
19" blind panel - 3 rack units

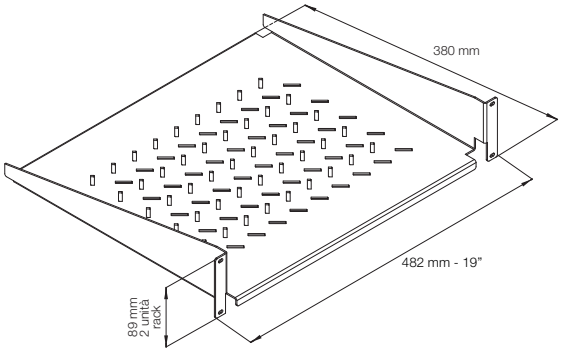


03201.3U

Carpentry

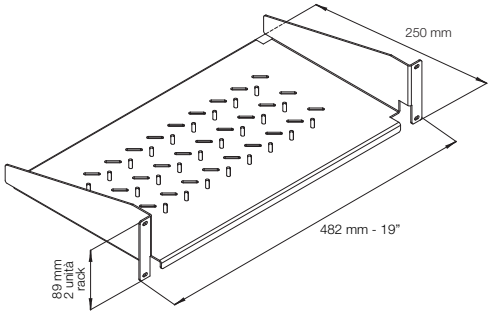
Accessories

03202.2U
19" mounting frame for live devices, depth 38 cm - 2 rack units



03202.2U

03203.2U
19" mounting frame for live devices, depth 25 cm - 2 rack units



03203.2U

03256
Fan 230 V~ 50/60 Hz for surface mounting cabinet and enclosures, complete with protective grille and power cable with plug 2P+E 16 A 250 V~ combined German and French standard

03257
Metal screw and cage nut for fixing 19" panels in the surface mounting cabinets and enclosures

19" power supply panels

03260
Complete with:
- 7 SICURY outlets 2P+E 16 A 250 V~ universal, for Europlugs 2P 2,5 A, plugs 2P and 2P+E 10 A and 16 A Italian standard, plugs 2P+E 16 A 250 V~ German standard, plugs 2P 15 A 125 V~ American standard flat pin, non-polarised.
  Do not make the earth connection with the 2P+E 16 A 250 V~ French standard plug
- 3 m cable 3G1,5 mm^2 and plug S17

03261
Complete with:
- 6 SICURY outlets 2P+E 16 A 250 V~ universal, for Europlugs 2P 2,5 A, plugs 2P and 2P+E 10 A and 16 A Italian standard, plugs 2P+E 16 A 250 V~ German standard, plugs 2P 15 A 125 V~ American standard flat pin, non-polarised.
  Do not make the earth connection with the 2P+E 16 A 250 V~ French standard plug.
- 2P switch
- pilot light
- 3 m cable 3G1,5 mm^2 and plug S17

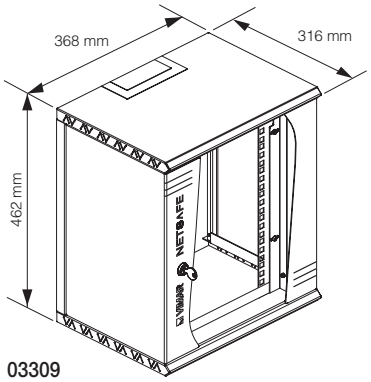
03262
Complete with:
- 6 UNIVERSAL SICURY outlets 2P+E 16 A 250 V~, for Europlugs 2P 2,5 A, plugs 2P and 2P+E 10 A and 16 A Italian standard, plugs 2P+E 16 A 250 V~ German standard, plugs 2P 15 A 125 V~ American standard flat pin, non-polarised.
  Do not make the earth connection with the 2P+E 16 A 250 V~ French standard plug.
- circuit breaker 1P+N C 16
- pilot light
- 3 m cable 3G1,5 mm^2 and plug S17

Netsafe: structured wiring system

Carpentry

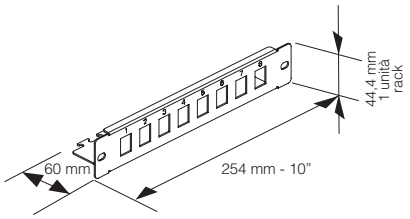
10” S.O.H.O. system

03309
Surface mounting cabinet for installation of 10" panels up to 9 rack units, RAL 7035. Dimensions: 368x316x462 mm



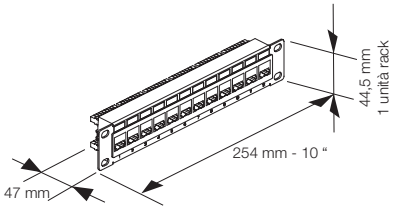
03309

03303.E
10" patch panel with 8 empty ports - 1 rack unit



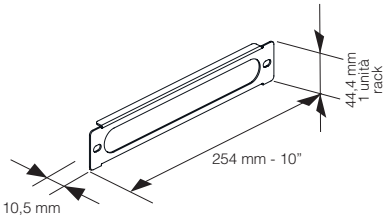
03303.E

03303.3
10” patch panel complete with 12 RJ45 connectors Cat. 6 unshielded, T568A/B universal wiring, 8 contacts, insulation-piercing terminals type 110 - 1 rack unit



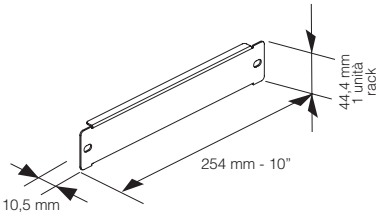
03303.3

03301.1A
10" panel open cable outlet - 1 rack unit



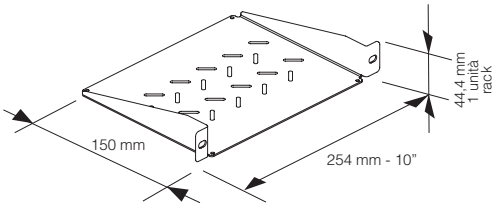
03301.1A

03301.1U
10" blind panel - 1 rack units



03301.1U

03302.1U
10" mounting frame for live devices, depth 15 cm - 1 rack units



03302.1U

SERVICES

Design and cost estimation suite.

To respond to growing market needs, Vimar has developed the design and quotation Suite for conventional and home automation electrical systems, video entryphone systems, CCTV systems and home automation systems. Composed of EasyDraw, EasyCap and the Wizard with a guided procedure - three simple and intuitive software packages - the Suite can be **downloaded free of charge from the website www.vimar.com**, in the Products/Product software section, simply by registering on the website; it facilitates and speeds up the system design process for customers, proving an excellent work tool for installers and electrical system designers.

Four simple steps for designing the system.

Just a few clicks to create a design or a quotation. Start by choosing the type of building, the topology and dimensions of the structure.

Indicate the type of electrical system (conventional or home automation) and choose the residential series and cover plate finishes, the type of video entryphone system, video surveillance (CCTV) and automation systems.

With EasyCap you can draft technical specifications organised by environment or by function with advanced product data management complete with prices and photos of the devices making up the system.

Having acquired the building layout with EasyDraw, you can position the devices and automatically calculate the accessories required and the installation times/costs.

1

Wizard

A prompt-led procedure taking only 6 clicks (10 seconds) allows the creation of a design or an estimate in accordance with standard CEI 64-8, effective since 1 June 2012.
Main functions:

- quick creation of systems with selection of building type, topology and dimensions of structure, type of electrical system (conventional/home automation) with relative series and finishes, type of video door entry, CCTV and gate automation systems;
- export of bill of materials in Microsoft Excel® (.xls) or pdf format;
- Wizard functionalities are also developed in the Design On-line section of the homepage on the Vimar website www.vimar.com.

2

EasyCap

Quotation software for electric and home automation systems, video door entry systems, CCTV systems, automation systems and drafting technical specifications, used to draw up and print estimates/specifications organized by areas/rooms and functions, with advanced management of customer/supplier details and selective application of discounts. Main functions:

- export bills of materials in Microsoft Excel® (.csv) format;
- draft declaration of conformity;
- custom management of specification items (composition, description, costs);
- print bills of materials with product reference photographs, organized by area-room or home automation functions, with scope for customization (insertion of logos and images).

Design of system off-line by computer, and project management using mobile appliances (tablet and smartphone).

3

EasyDraw

Electrical design software package with CAD engine, allowing the user to consult the Eikon, Arké, Idea and Plana product library and to draft a computer aided design with automatic composition of residential series items.

Main functions:

- drawing or scanner-acquisition of plans, with import/export of dwg/dxf formats and axonometric projection;
- prompt-led placement of residential series items in the design, with automatic calculation of accessories (quantities of conduit, cable) and installation timescales/costs;
- automatic conversion of electrical devices and cover plates belonging to different series;
- drawing and costing of distribution trunks routed along conduit, channel or raceway;
- drawings of single line diagrams for control panels and switchboards;
- automatic transition from drawing to estimate with bill of materials or calculations.

Design and cost estimation suite

1

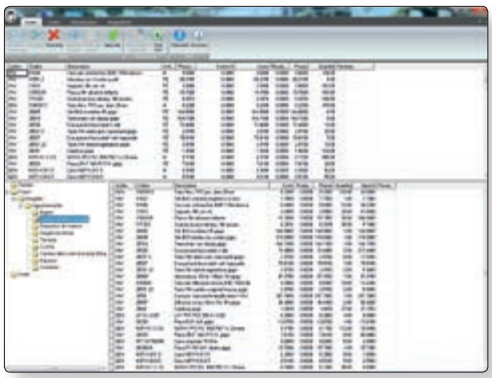
Quick design Wizard

Design or estimate produced with a few mouse clicks. The first step is to select the type of building, the topology and the dimensions of the structure. The next is to indicate the type of system (traditional or home automation) and select the residential product series, the finish of the cover plates, the video door entry, CCTV and gate automation systems.

2

Costing with EasyCap

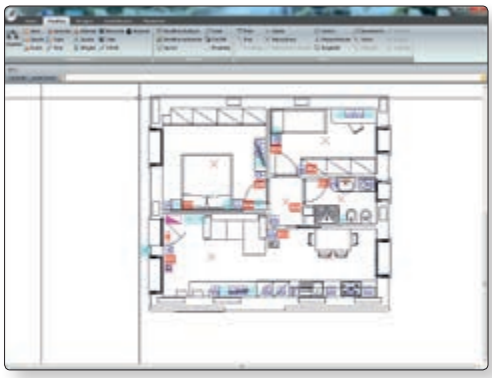
The software can be used to prepare specifications organized by areas or by functions, and with advanced management of customer/supplier details allowing the selective application of discounts. The list of items, complete with prices and photographs, can be printed or exported as a Microsoft Excel® spreadsheet.



3

CAD design with EasyDraw

The design of the system can be created directly on the building plan. The software handles CAD formats (dwg or dxf) and prompts the user on the placement of residential series items in the plan, with automatic calculation of accessories and installation timescales/costs (except for video door entry, CCTV and gate automation devices). For design purposes, the bill of materials is generated together with the pertinent calculations.



To suit the increasing requests, Vimar has developed a Planning Suite Software for:
- traditional and home automation systems;
- video door entry systems;
- CCTV systems;
- gate automation systems.

Comprising EasyDraw, EasyCap and the Wizard — three simple and intuitive programs — the Suite is **downloadable free** from the Vimar website **www.vimar.com** and provides an optimum tool for the electrical installer and designer, facilitating and speeding up the preparation of proposals to submit to customers.

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- drawing and costing of distribution trunks routed along conduit, channel or raceway;
- drawings of single line diagrams for control panels and switchboards;
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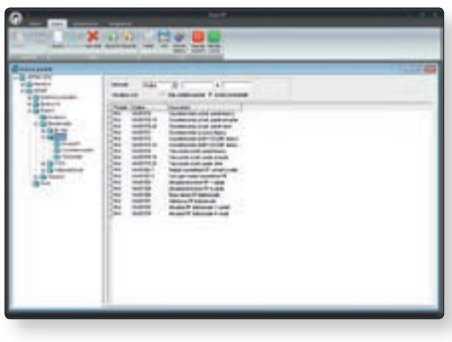

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