Small Entrance Panel Compact

374006

User and installation manual

RA00216AB-01/24-PC

Small Entrance Panel Compact

User and installation manual

Contents

General information

Warnings and recommendations

It is important to read this manual carefully before proceeding with the installation.
The warranty becomes automatically void in case of negligence, improper use, tampering by unauthorised personnel.
The Entrance Panel must not be exposed to water drops or splashes; it must be used only on IP DES digital systems.

Warnings and consumer rights

	Read carefully before use and keep for future reference.
	Touching the units with wet hands is forbidden. Using liquid cleaners or aerosols is forbidden. Blocking the ventilation openings is forbidden. Modifying the devices is forbidden. Removing protective parts from the devices is forbidden. Exposing the unit to water drops or splashes is forbidden. Installing the units near heat/cold sources is forbidden. Installing the units near harmful gases and powders is forbidden. Fastening the units on unsuitable surfaces is forbidden.
	Danger of electrical shock.
	Risk of devices falling because the surface on which they are installed collapses or inappropriate installation. Switch the power supply OFF before any work on the system. Remote operation may cause damage to people or property.
	Caution: Installation, configuration, starting-up and maintenance must be performed exclusively by qualified personnel. Check that the wall installation has been carried out correctly according to the installation instructions. Check that the unit installation complies with the standards in force. Connect the power supply wires as indicated. Use only the items indicated in the technical specifications for any system expansions.

***Warning**: in case of a power failure, the device does not work and cannot be reached, any collection of personal data is interrupted.*

Fundamental concepts

The device cannot be activated individually but must follow a general configuration found on the DES Server.
The DES Server is configured using a PC connected to the same LAN.
Once configured and activated, the DES Server makes available the configuration of local devices (Internal Unit, Entrance Panel, Guard Station, etc.)
When switched on, the device searches for a configuration (address book) on the DES Server and acquires it.

Naming of the devices

In this manual, for easy reading, the abbreviated device name is used as in the list:

– IU: Indoor Unit
– EP: Entrance Panel
– GS: Guard Station
– SD: Server DES
– SEP: Small Entrance Panel Compact
– AB: Address book
– SW: IP DES SYSTEM

Community

The term Community means the housing complex reproduced in the project design made using the SW.
The structure in its maximum extension includes:

AREA → BUILDING → RISER → FLOOR → APARTMENT

Call addressing procedures

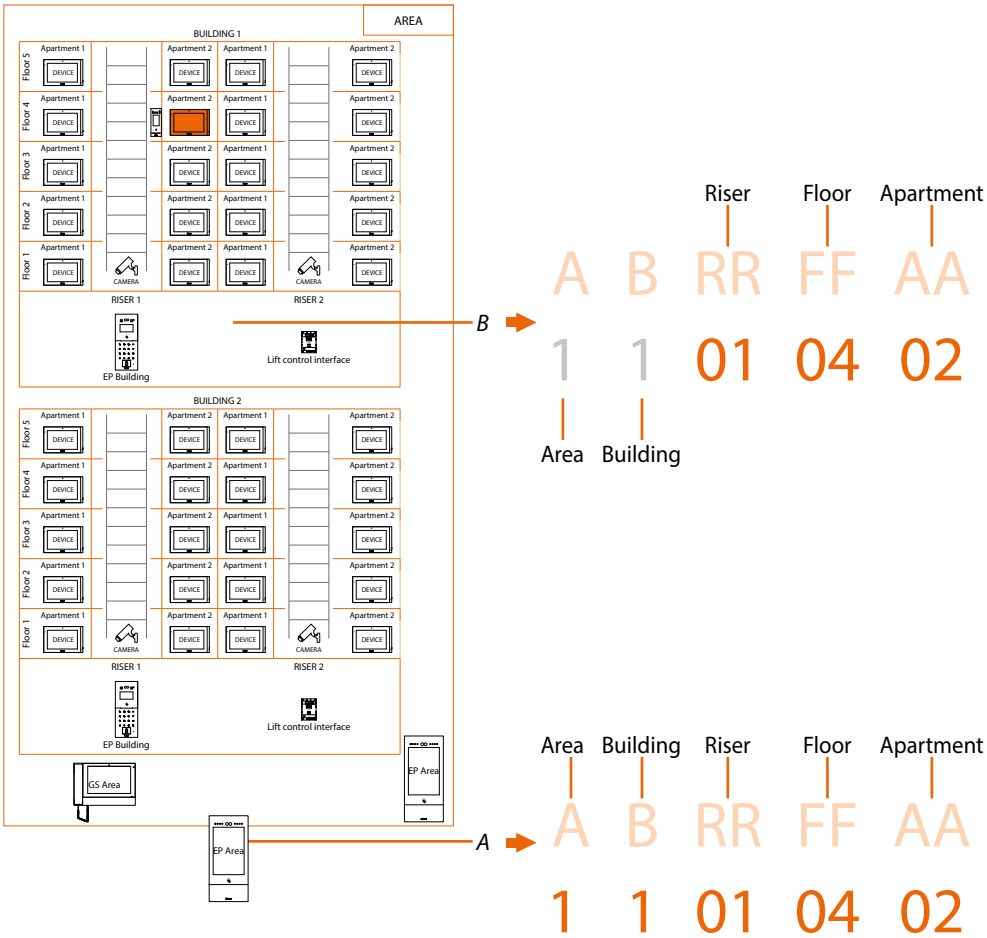
On the basis of data recorded in the AB and the Community structure the calls can be made using various methods:

- numeric call (using the standard address of the community);
- alphanumeric call (using Alias);

Numeric call (using the standard address of the community)

To make this type of call you must know the address of the person being called, which depends on the community structure, for example:

- to call the IU highlighted in the diagram from the «A» EP, enter the corresponding address «11010402»;
- to call the IU highlighted in the diagram from the «B» EP, enter the corresponding address «010402», as the IU is positioned inside building 1 and therefore it is sufficient to type the Riser, Floor and Apartment number.



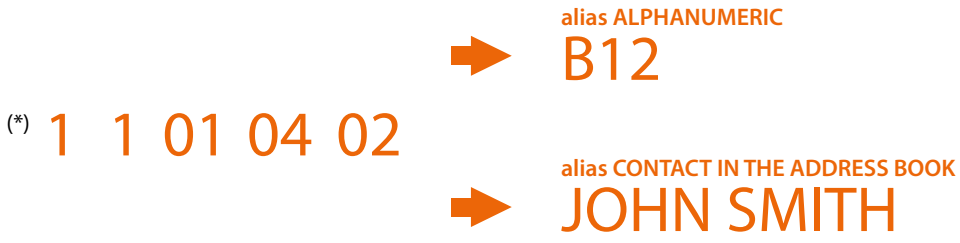
***Note**: during the configuration phase, the number of digits to be used for each call sector (Area/Building/Riser/Floor/Apartment) must be set.*
Example: I have to call an apartment inside building 2
– if there are from 1 to 9 buildings in the area, I must enter «2» (one digit used for the Building call sector);
– if there are more than 10 buildings in the area, I must enter «02» (two digits used for the Building call sector);

The system will automatically show the correct number of digits to type and which data to enter on the basis of the EP position you are calling from, for example Area (2 01 06 02) or Building (01 06 02)

System configuration (default)
Areas 9, Building 99, Riser 99, Floor 99, Apartment 99
It is possible to modify the limits using the SW (see SW manual for details)

Alphanumeric call (using Alias)

The Alias is an alphanumeric code that replaces the community address created through the software.
The default alias is the same as the address in the Community*. However, this can be changed using the SW and can be of two types:



Call using alphanumeric alias

The alphanumeric alias can be used on all entrance panels, internal units and guard stations.
To make the call, enter the full alphanumeric alias in the device call menu - -> B12

Call using contact alias in the address book

The address book contact alias can be used on all internal units and guard stations, but only on entrance panels with touch display.
To make the call, use the appropriate address book button (icon) in the call menu of the device and select the desired contact (JOHN SMITH), or enter the contact alias using the auto-complete function - -> JOHN SMITH

Contacts

The positioning of the objects in their respective locations also allows the creation of the contact lists that they can manage: for example, an EP positioned in the building will only have the contacts of the same building.
The GS will always have the complete contact list of the entire community

Configuration

Address book, created using the SW, containing the addresses of all the system devices.

Lift function

The Lift Control function consists of the ability to interact with the lift system through calls and commands from the DES IP video door entry system.
The operating mode of the lift depends on its control system (BTicino cannot operate the lift but only send commands, which are interpreted and executed).
Safety must be guaranteed by an access control system or by the lift itself.

The lift control function can be realised in two modes:

– The first is through protocol commands on RS485.
  Using the interface 375010, the IP DES video door entry system sends commands to the lift control centre to simulate a lift call.
  For more information, see the "Lift Interface Software Manual, item 375010".

– The second mode is through dry contact commands.
  The DES IP video door entry system opens and/or closes contacts (output contacts from interface 375013). Lift calls are simulated when these contacts (correctly connected to the lift system) are opened or closed.
  Interface 375013 must be added as a device in the Community.
  After this, it will be necessary to configure the parameters in the Lift Control function page.

You can see some examples of connection diagrams in the manuals of the IP devices.

Fire-fighting

Enables the door lock opening function in case of fire.
The Fire-fighting function allows the automatic opening of EP door locks in the event of a fire.
The use of this function requires a clean contact in the GND FIRE-FIGHTING input clamp from the fire fighting system.
It is necessary to enable the function in Settings

OnVif IP cameras

OnVif IP cameras wired on the same network as the IP video door entry system with video surveillance of public and/or private areas.

What discussed in the previous sections is not applicable to all devices. Below is a list showing their applicability.

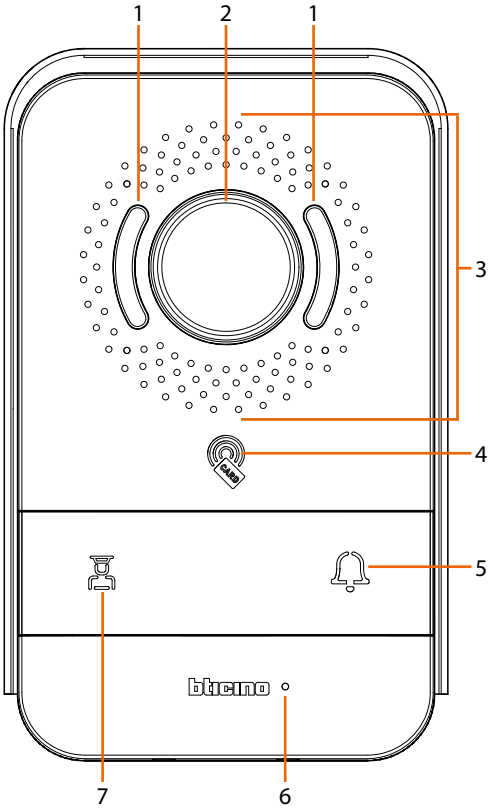
	Alphanumeric call (using alphanumeric alias)	Alphanumeric call (using contact alias in the address book)	Lift Control Function	Fire-fighting	OnVif IP cameras
373001	✓	✓	✓	✗	✓
373002	✓	✓	✓	✗	✓
373003	✓	✓	✓	✗	✓
373004	✓	✓	✓	✗	✓
373005	✓	✓	✓	✗	✓
373006	✓	✓	✓	✗	✓
373007	✓	✓	✓	✗	✓
373008	✓	✓	✓	✗	✓
374000	✓	✓	✓	✓	✗
374001	✓*	✗	✓	✓	✗
374002	✓	✓	✓	✓	✗
374003	✓*	✗	✓	✓	✗
374004	✗	✗	✓**	✓	✗
374005	✓	✓	✓***	✓	✗
374006	✗	✗	✓**	✓	✗
375000	✓	✓	✗	✗	✓

**NOTE: function only available with numbers and letters between 0-9 and A-I*

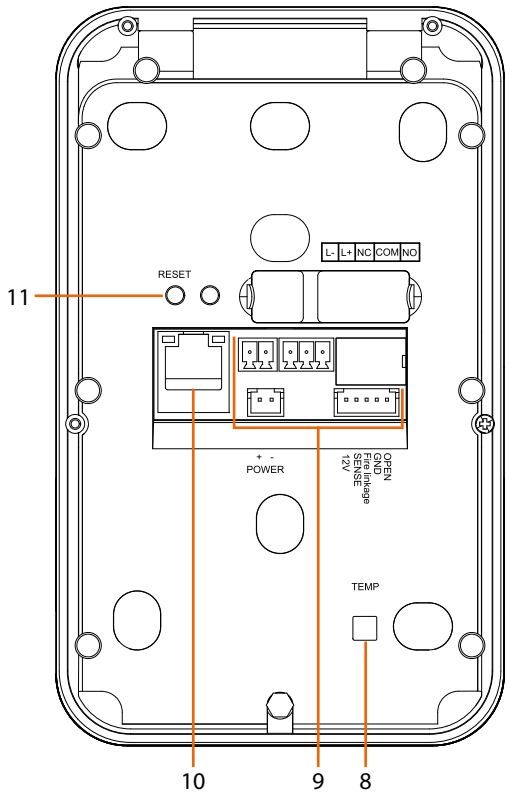
***NOTE: function only valid with contact interface 375013*

****NOTE: function only valid with contact interface 375013 or with interface 375011, but only in SLAVE mode*

Front and rear view

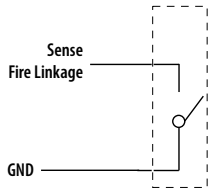


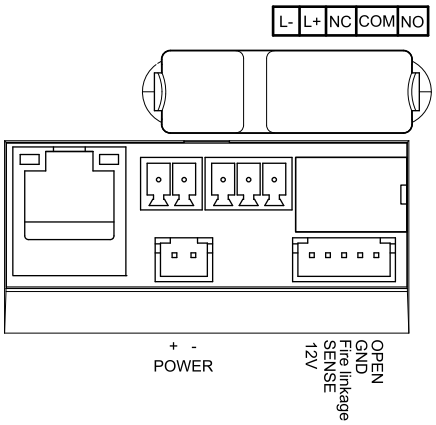
1. LEDs for the lighting of the shooting field and light sensor
2. Camera
3. Loudspeaker
4. Badge reader for door lock opening
5. Call key
6. Microphone
7. Guard station call key



8. Tamper switch
9. Connection clamps
10. RJ45 Connector (*)
11. Reset pushbutton

(*) This device does not support standard POE power supplies, but only POE power supplies identified with item no. 375002.
Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector.

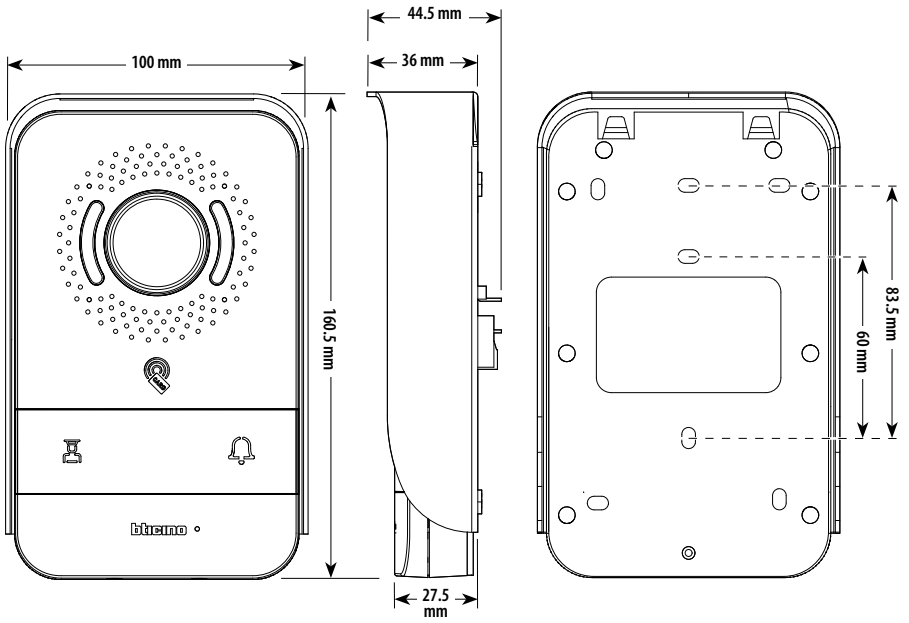


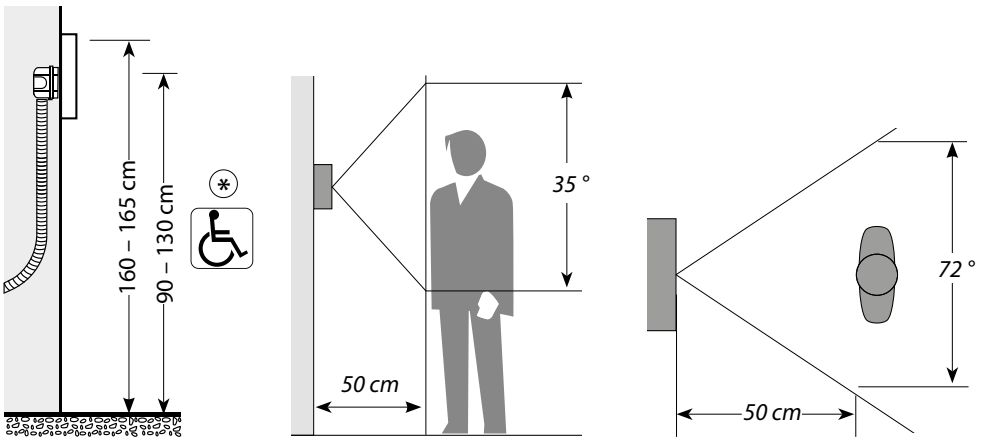


Morsetti di collegamento	
L-/L+ (LOCK- / LOCK+)	electric door lock connection and control (12V - 4A impulsive on 3 Ohm maximum)
NC / COM / NO	interlocked contact
+ / - POWER	additional power supply clamps (not polarized)
12V	access control devices power supply
SENSE / GND	door lock status signal input
FIRE Linkage / GND	local door lock release pushbutton connection for firealarm system
GND	system common ground terminal
OPEN / 12V	local door lock release pushbutton connection

It is possible to display some wiring diagram examples in the **functions** section

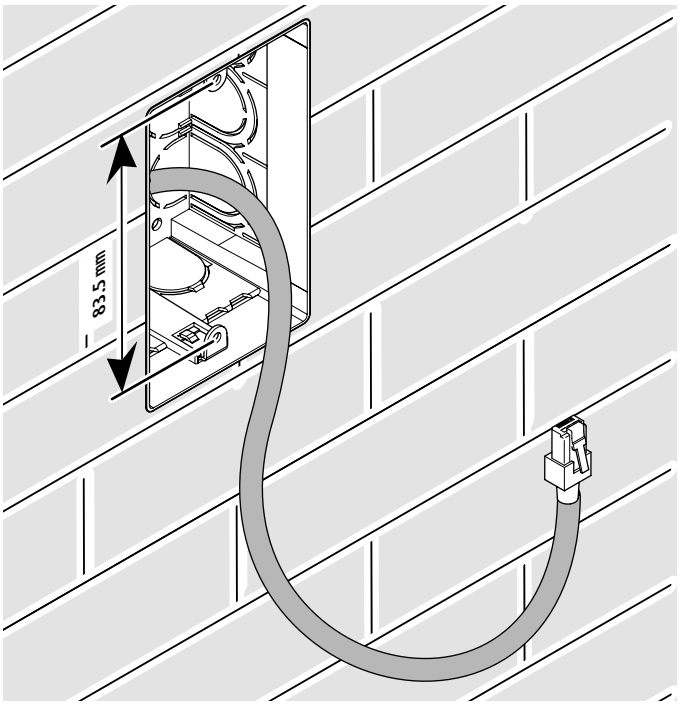
Dimensional data and installation heights

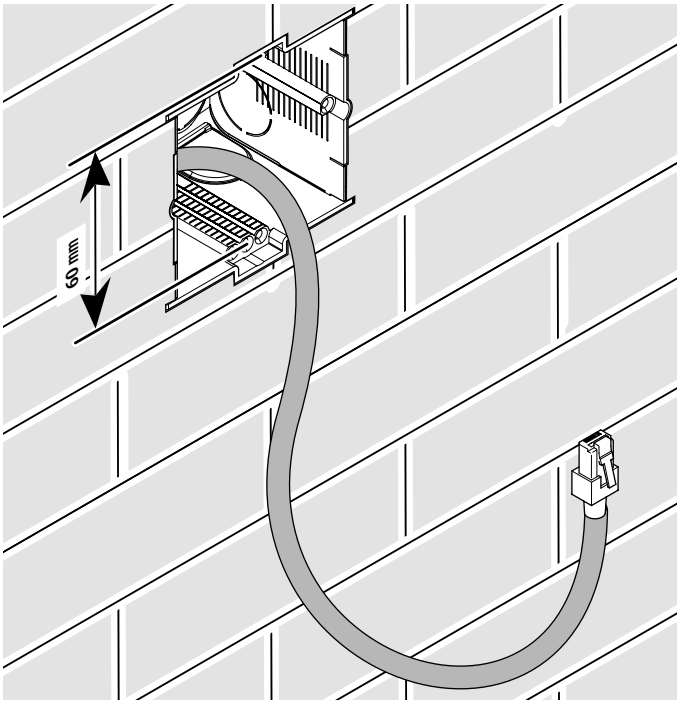




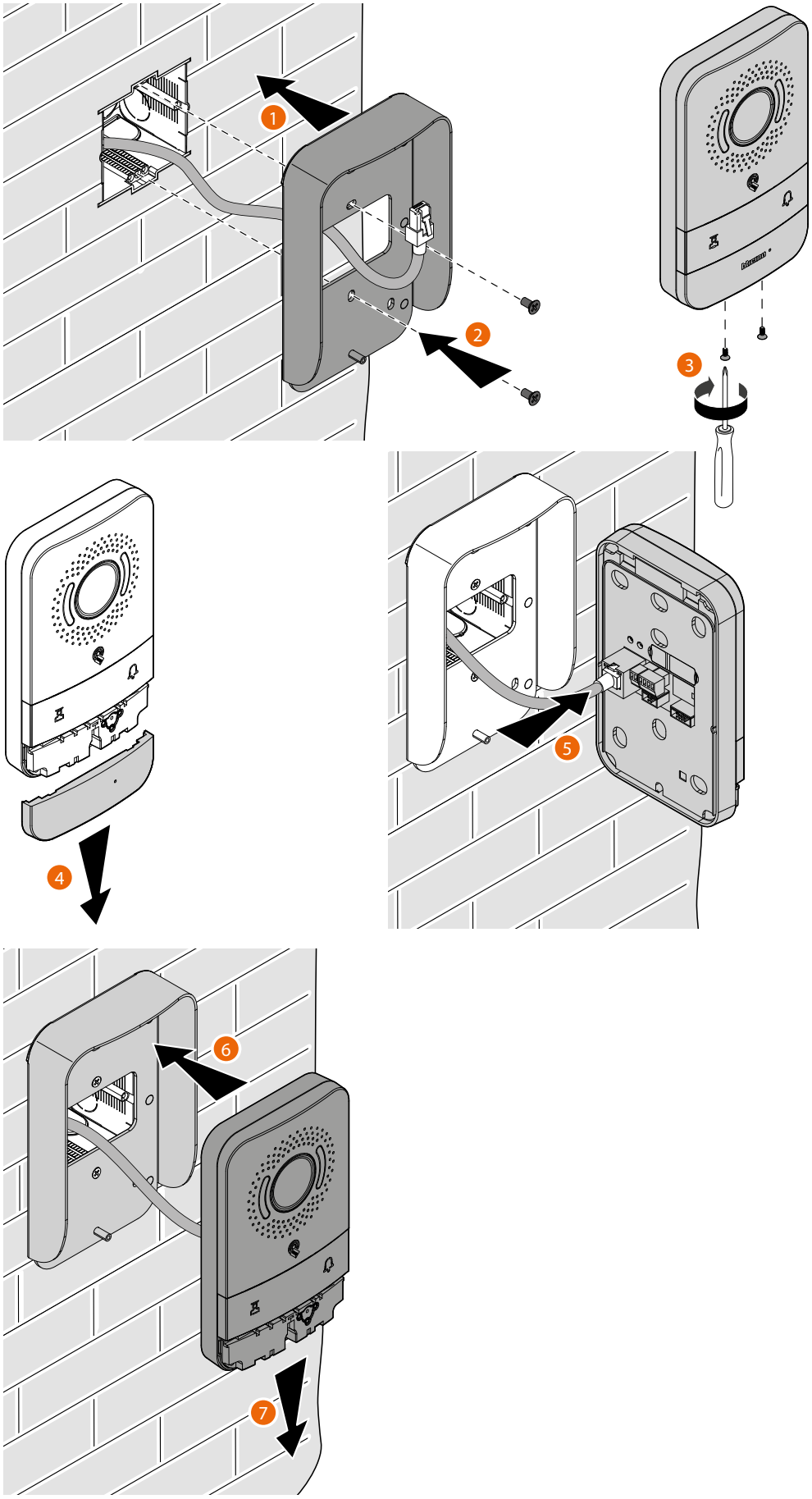
(*) Recommended height, unless different regulations are specified.

Installation





***Attention**: The wrong wiring of the Ethernet cable connecting the device to the Poe Switch 375002 could damage the device itself.*
The RJ45 cable must be at least 200 mm long.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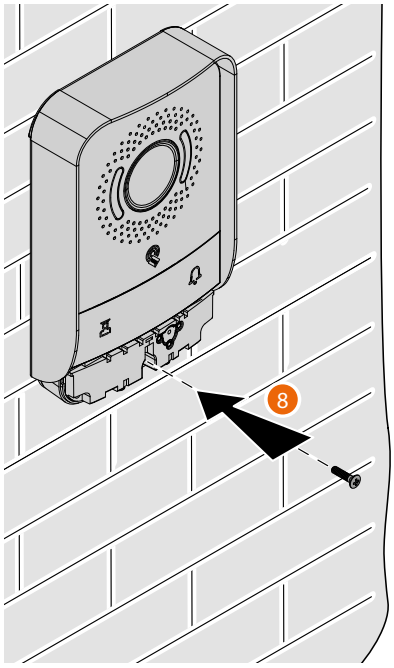
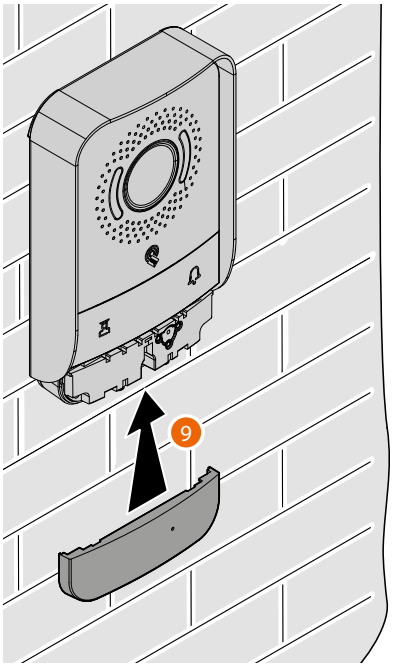
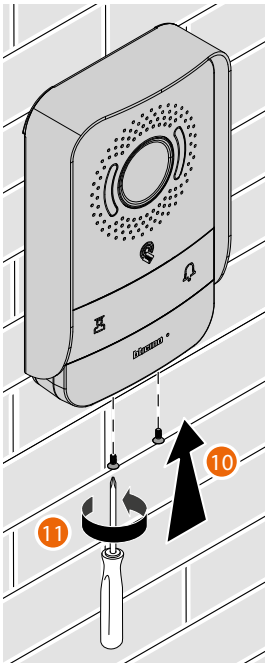
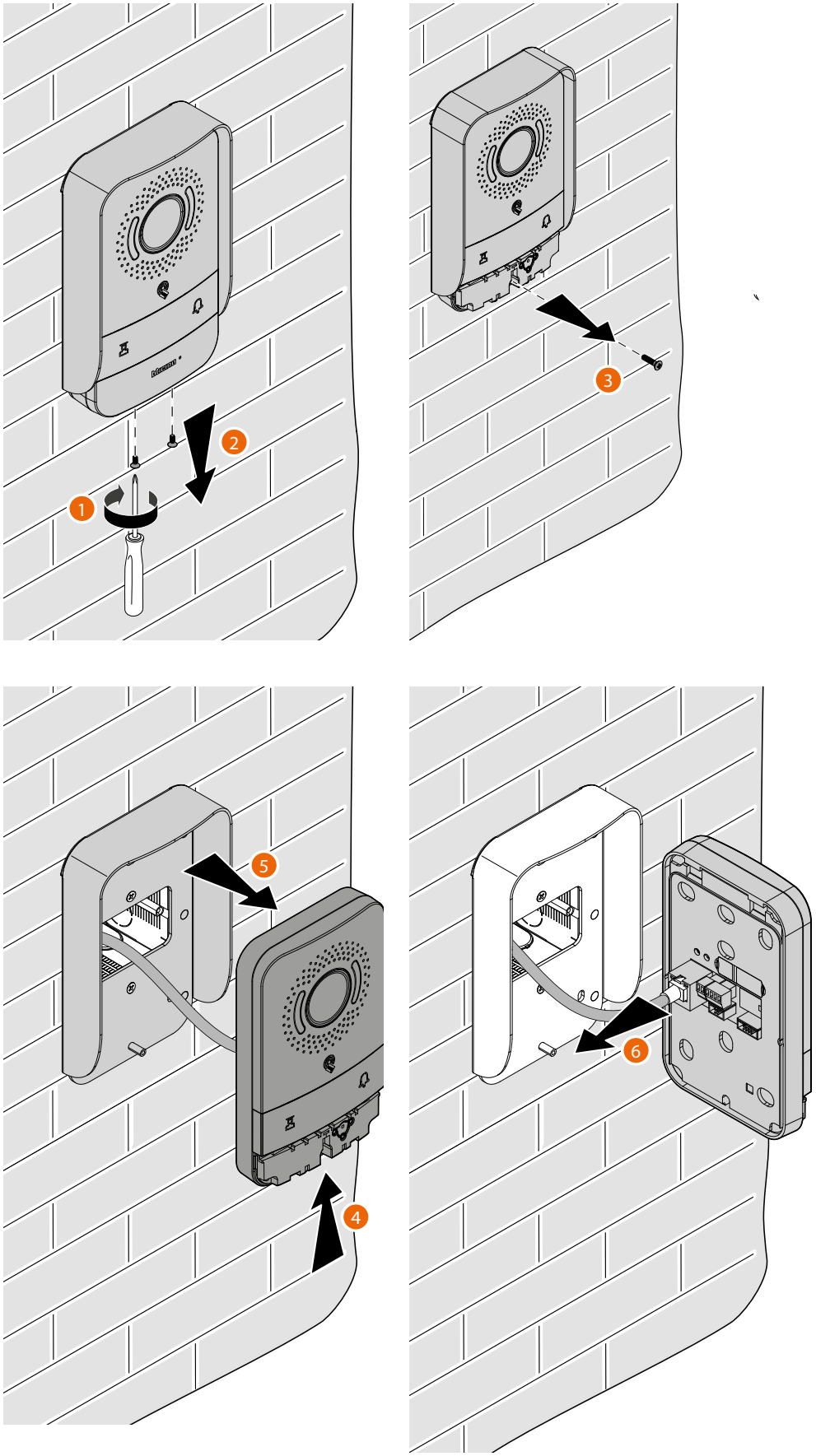

8


9


10
11

Uninstall

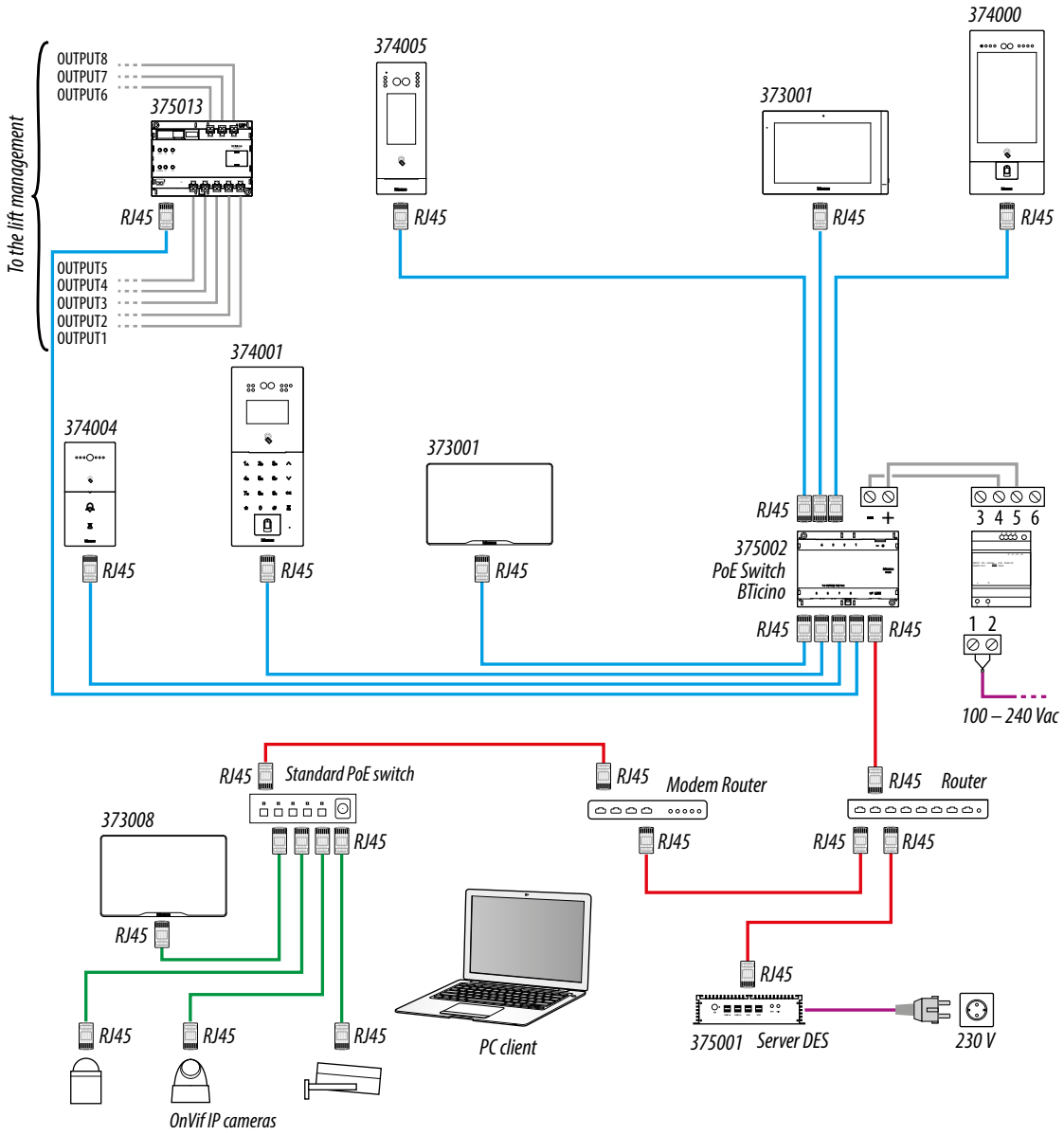


Example diagrams

A - Diagram with power supply by BTicino PoE Switch

CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

It is possible to use two different types of connection according to installation situation:



Caution:

- *connect the devices only to the PoE 375002 switches. No other PoE switches are permitted.*
- *only item 373008 can be connected to an IEEE 802.3at standard PoE switch (POE+)*
- *item 375001 must be connected to the LAN network, not to PoE switches*
- *connect the UP LINK port of the 375002 to a suitable network port, never to a PoE port.*
- *use a cat5/5e/6 FTP or cat5/5e/6 UTP cable. If using a UTP cable, use the supplied ferrite.*

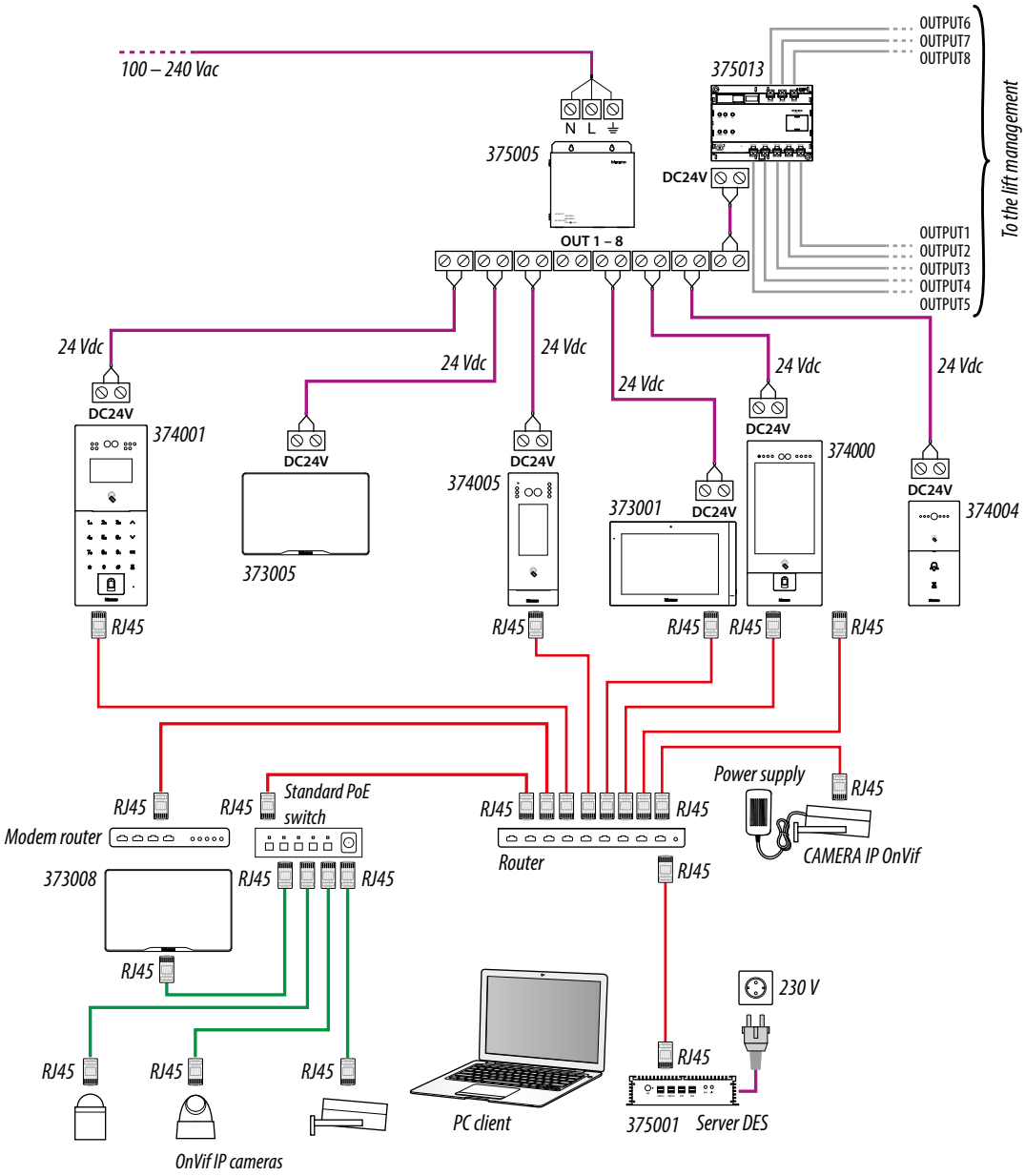
Note:

- *to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.*
- *maximum length of every LAN permanent link line = 90 m.*

B - Diagram with local power supply

CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables

It is possible to use two different types of connection according to installation situation:



Caution:

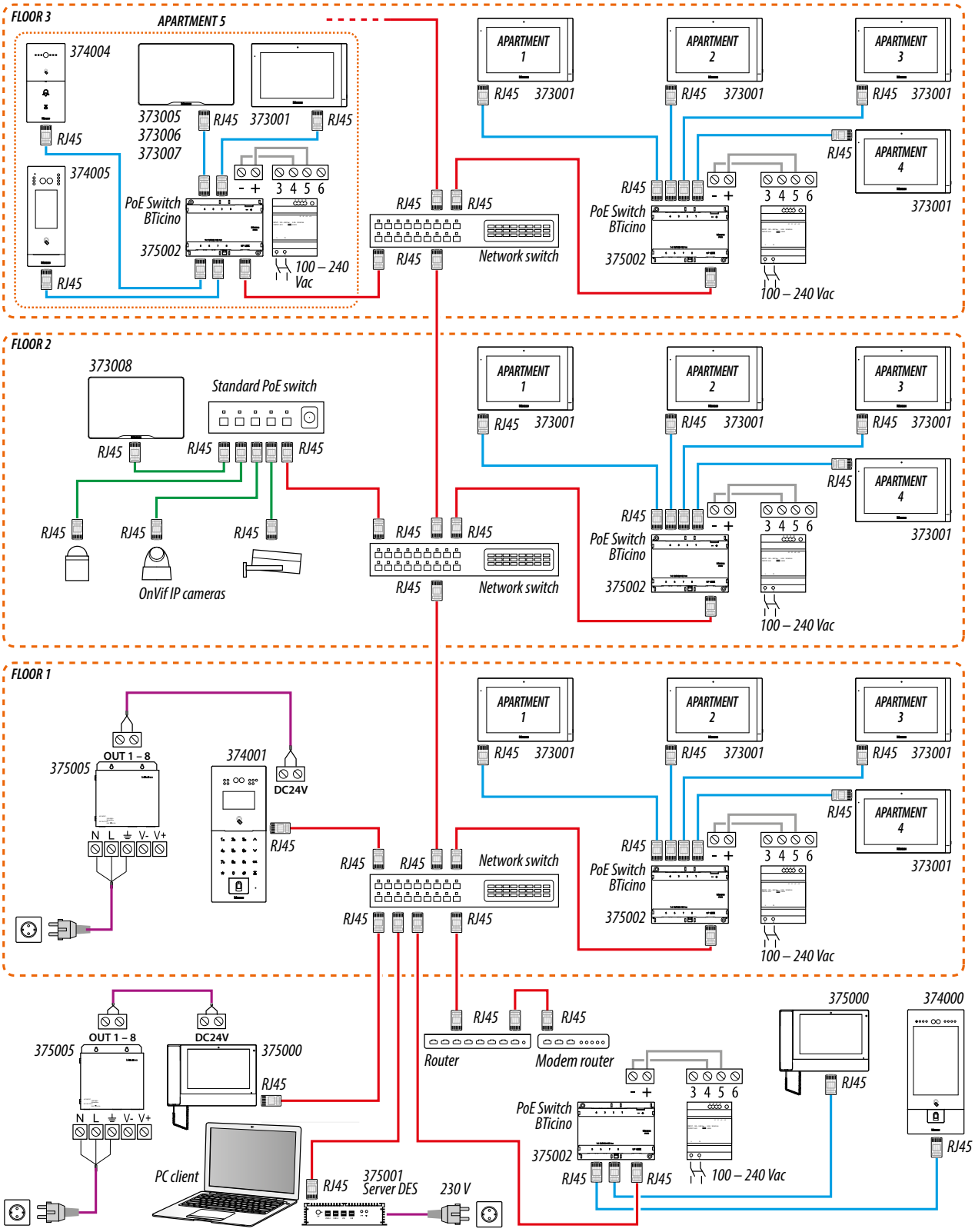
- *connect the devices only to the PoE 375002 switches. No other PoE switches are permitted.*
- *only item 373008 can be connected to an IEEE 802.3at standard PoE switch (POE+)*
- *item 375001 must be connected to the LAN network, not to PoE switches*
- *connect the UP LINK port of the 375002 to a suitable network port, never to a PoE port.*
- *use a cat5/5e/6 FTP or cat5/5e/6 UTP cable. If using a UTP cable, use the supplied ferrite.*

Note:

- *to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.*
- *maximum length of every LAN permanent link line = 90 m.*

Ethernet connection

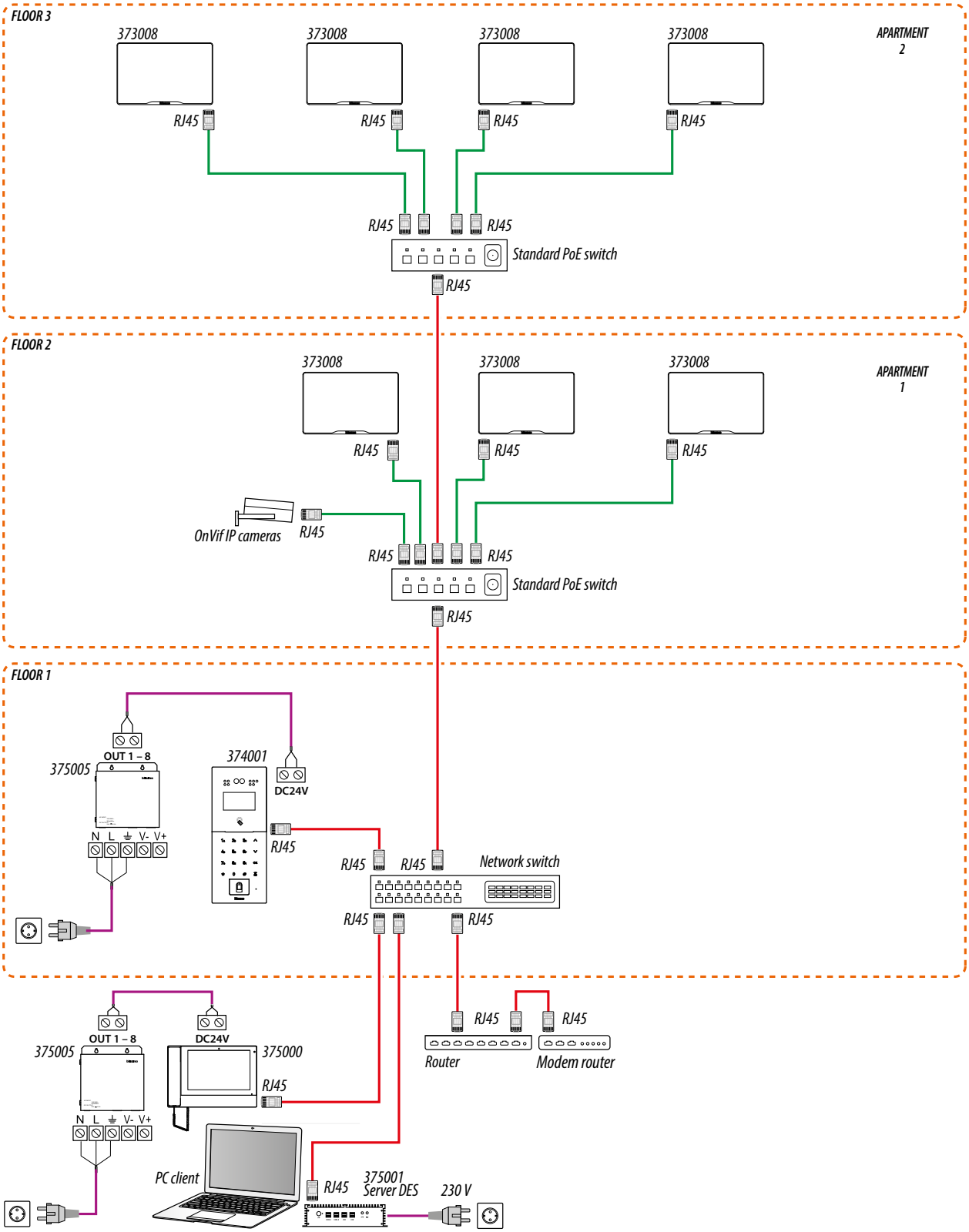
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables



***Attention**: check the installation precautions and notes*

Ethernet connection to the Standard PoE switch

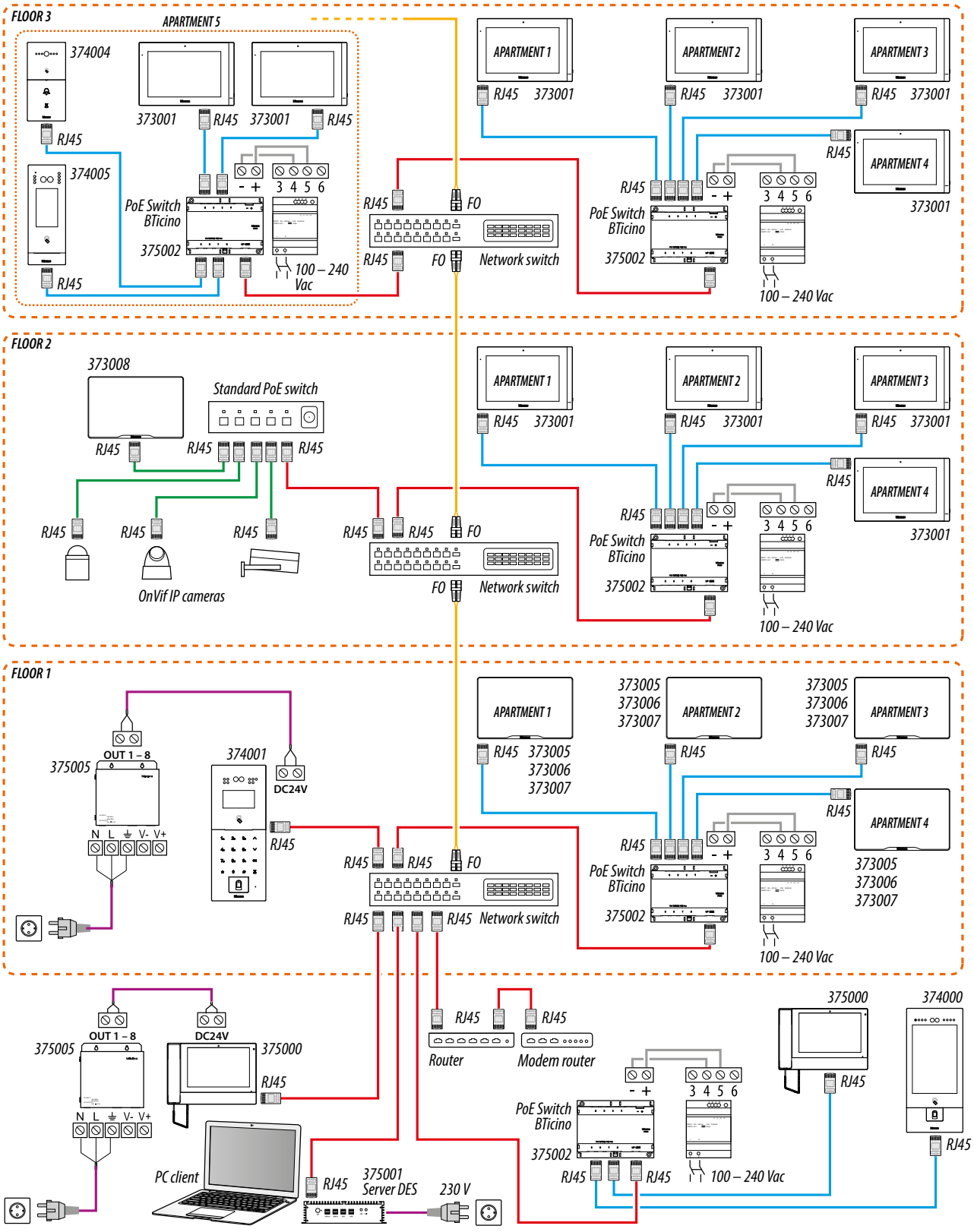
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Fiber optic riser connection (case of higher bandwidth demand)

CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Optical fiber	Copper cables	n° 2 Copper cables



***Attention**: check the installation precautions and notes*

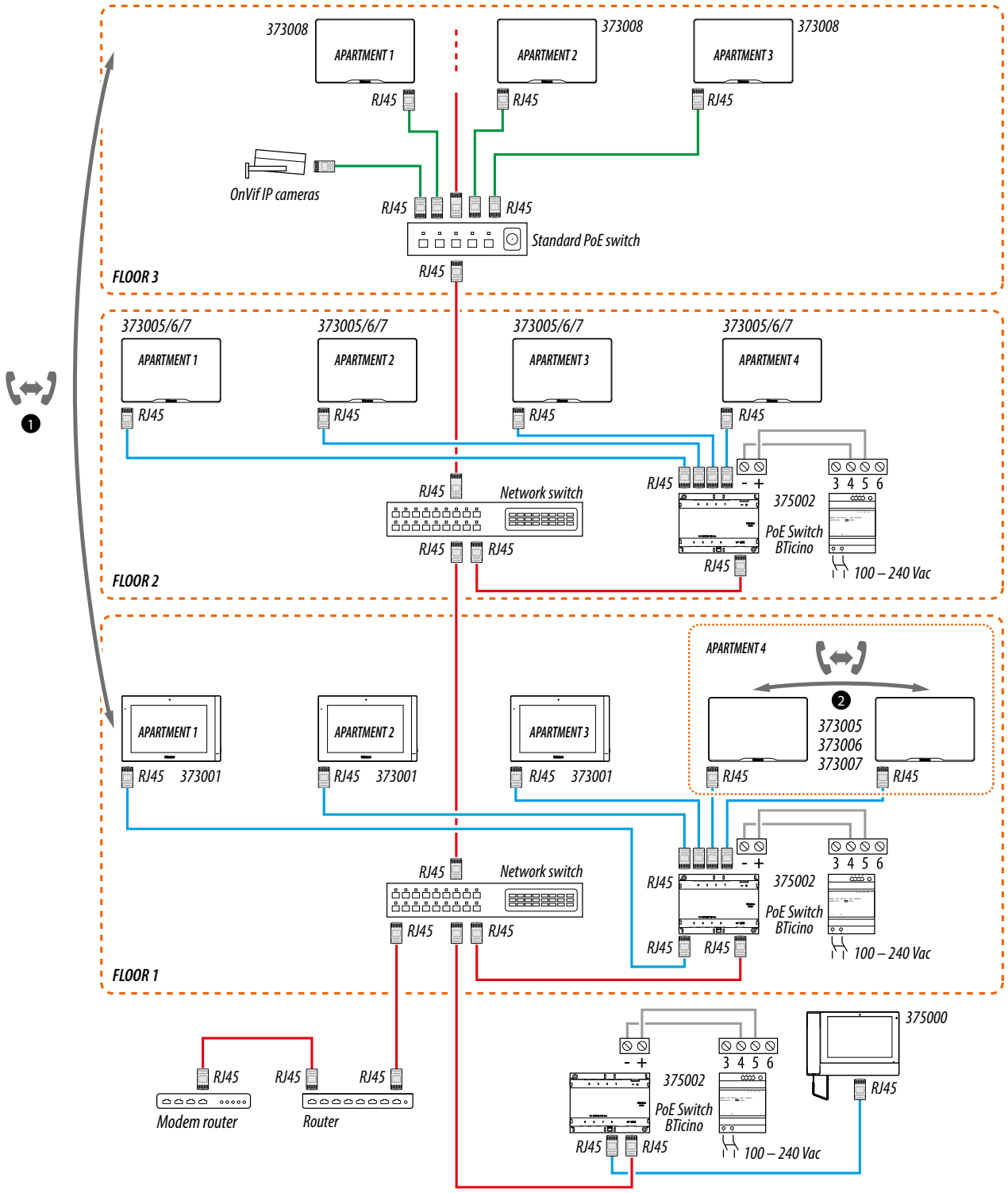
Intercom function

Audio intercom between internal unit:

❶ - of different apartments (same building or different building)

❷ - inside the same apartment.

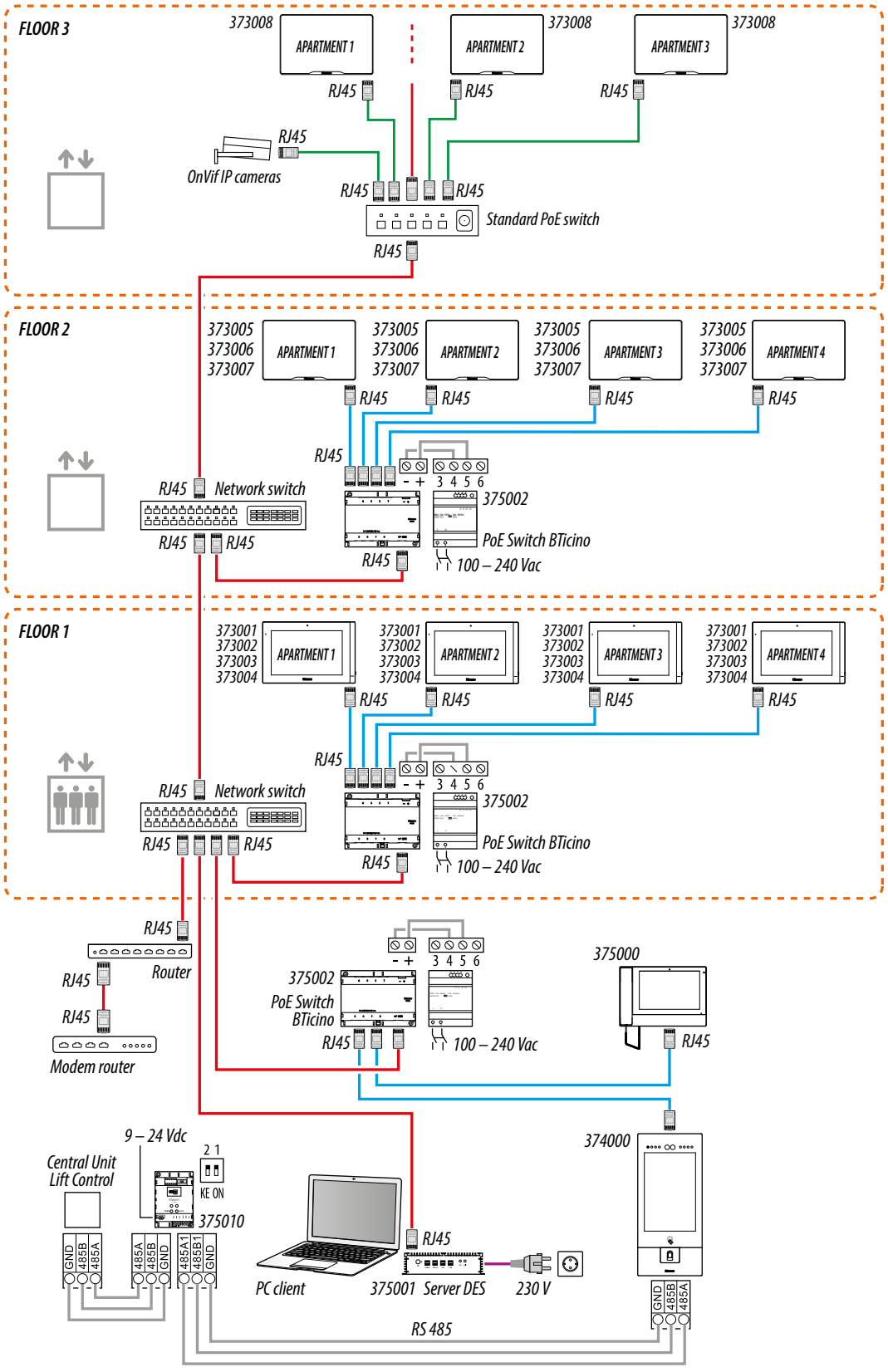
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables



***Attention**: check the installation precautions and notes*

Lift control 1 - Lift control with protocol interface 375010, 1 riser, 1 entrance panel

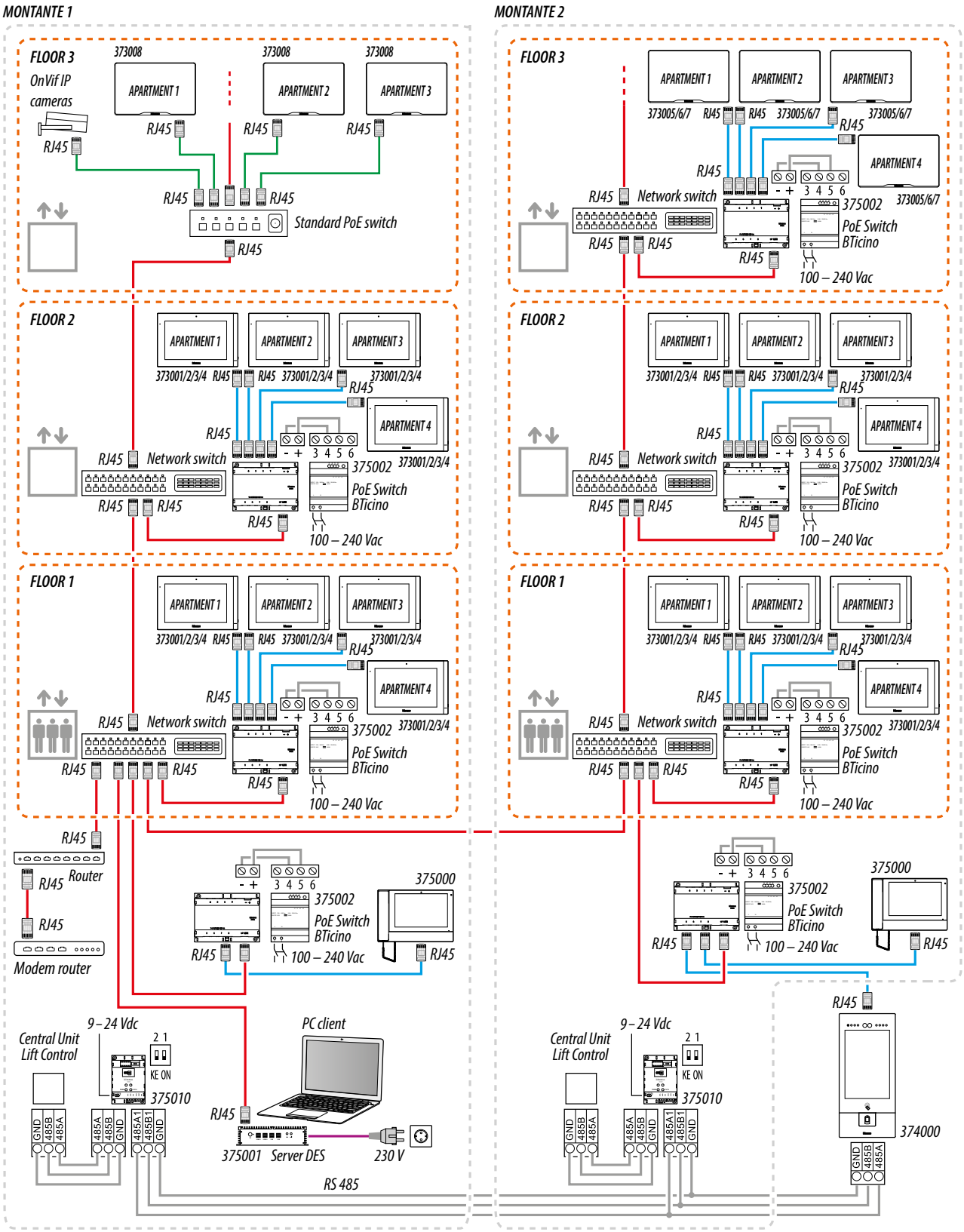
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	n° 2 Copper cables



Attention: *check the installation precautions and notes*

Lift control 2 - Lift control with protocol interface 375010, more risers, 1 entrance panel

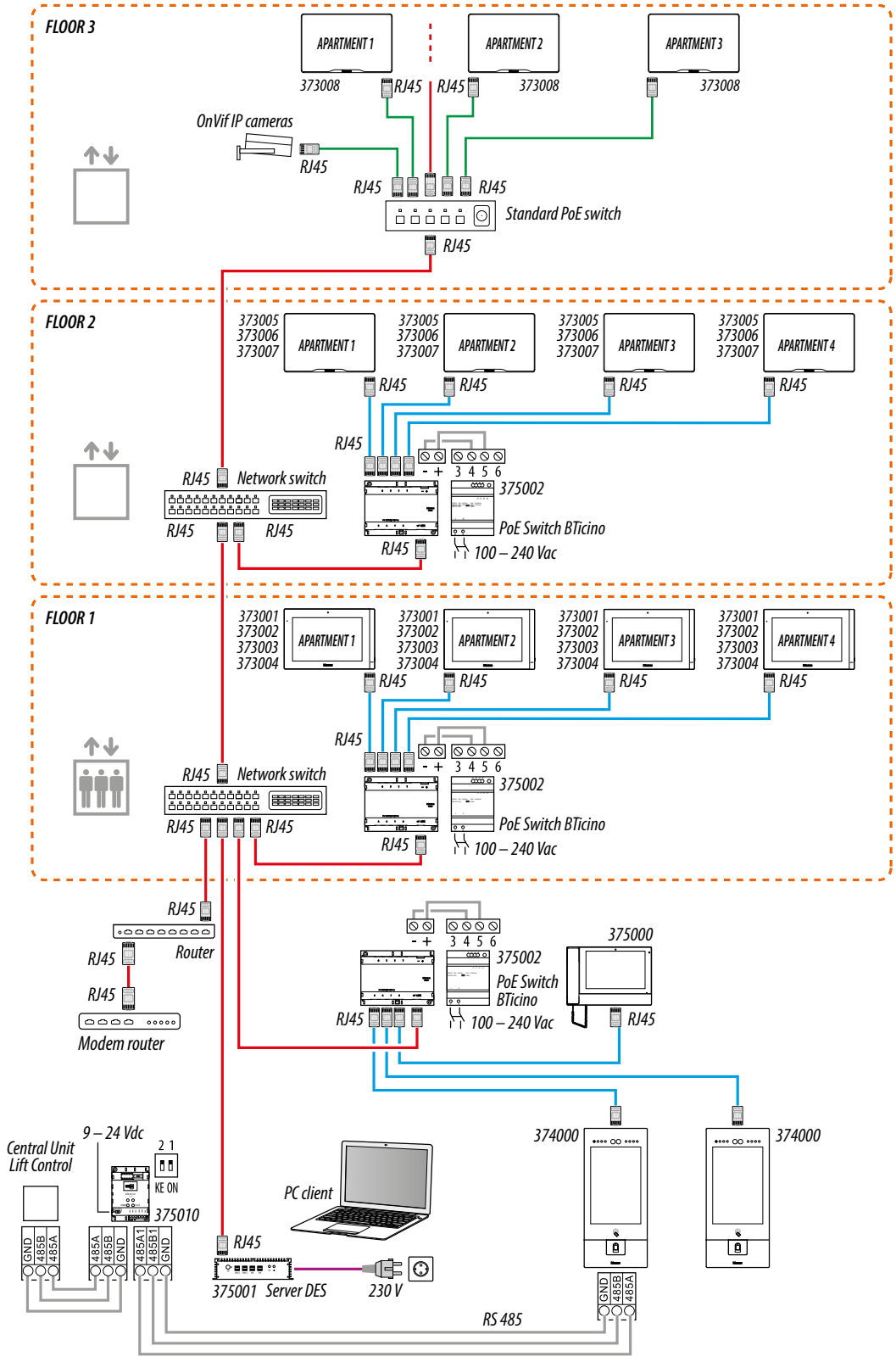
CABLES LEGEND | LAN PoE Standard | LAN PoE BTicino | LAN Ethernet | Copper cables | n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Lift control 3 - Lift control with protocol interface 375010, 1 riser, more entrance panels

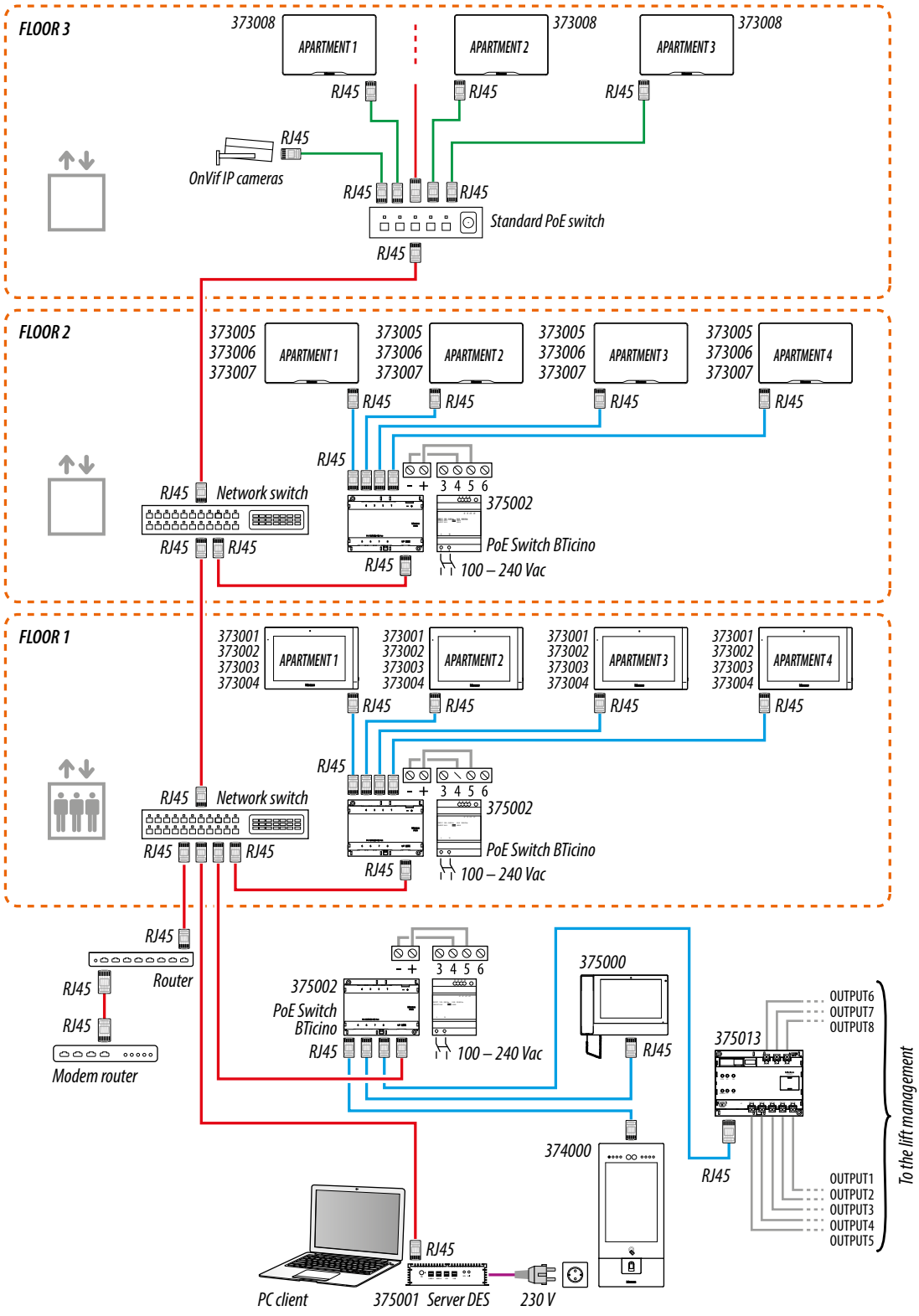
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Lift control 1 - Lift control with lift control interface with relay 375013, 1 riser, 1 entrance panel

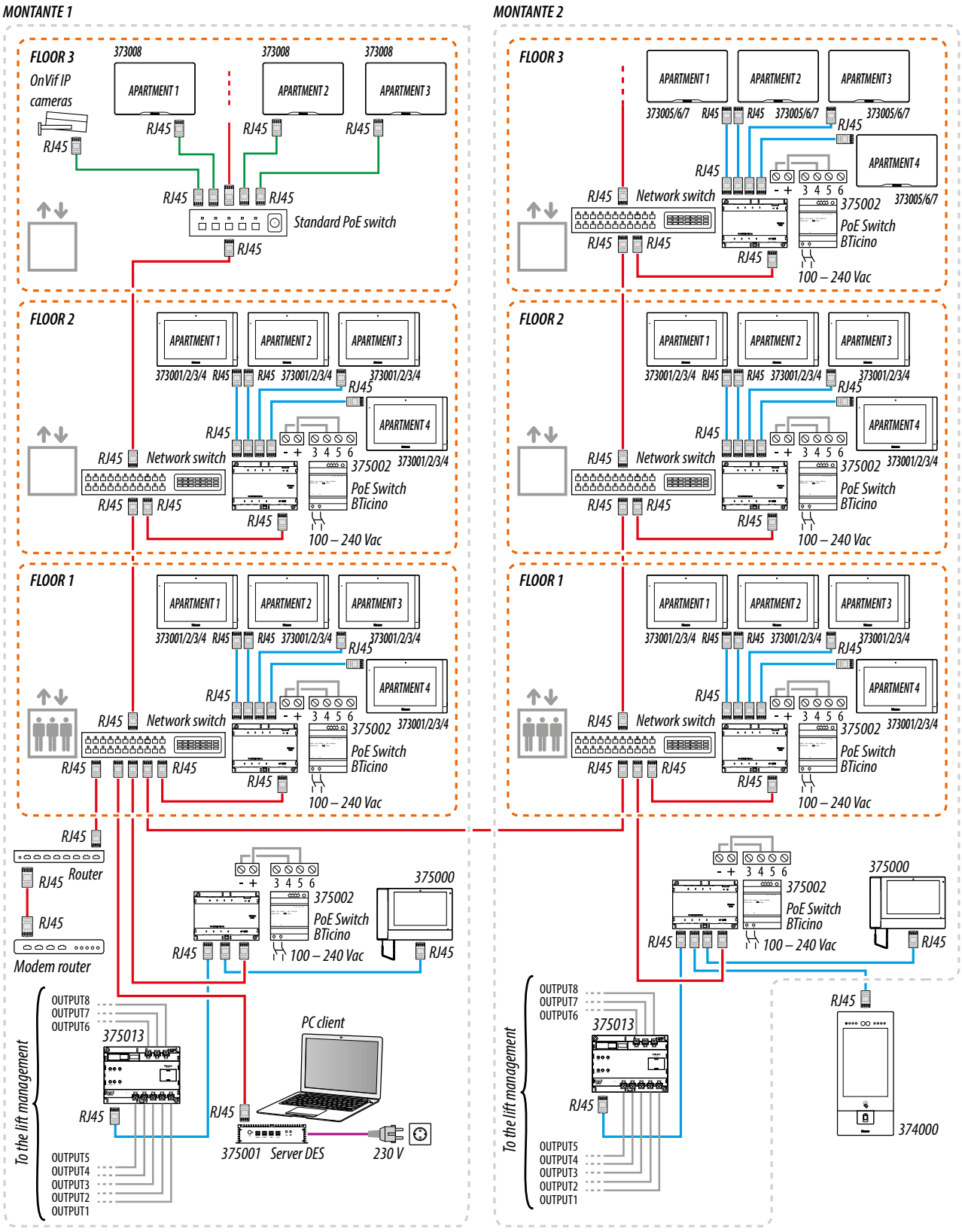
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Lift control 2 - Lift control with lift control interface with relay 375013, more risers, 1 entrance panel

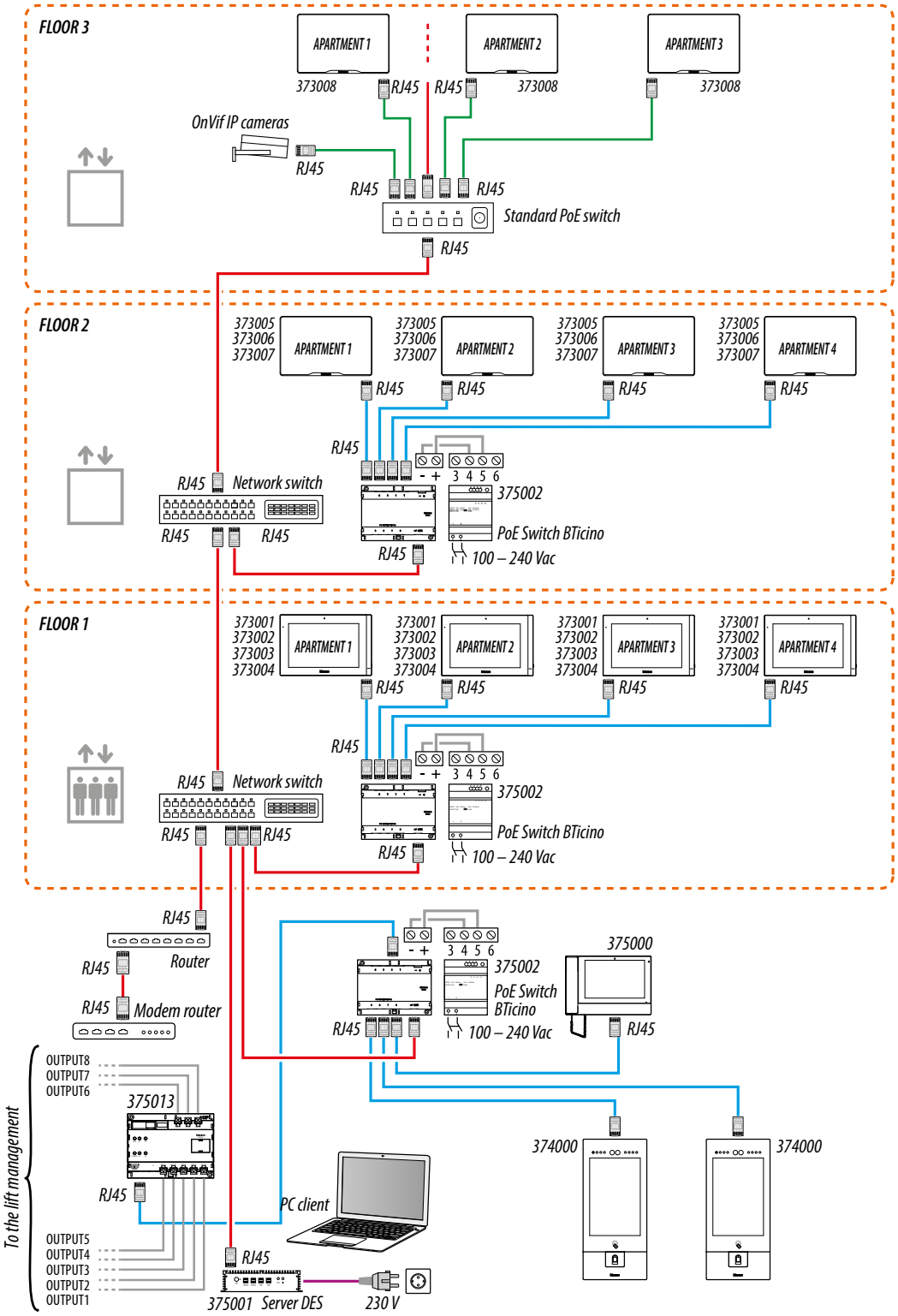
CABLES LEGEND | LAN PoE Standard | LAN PoE BTicino | LAN Ethernet | Copper cables | n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Lift control 3 - Lift control with lift control interface with relay 375013, 1 riser, more entrance panels

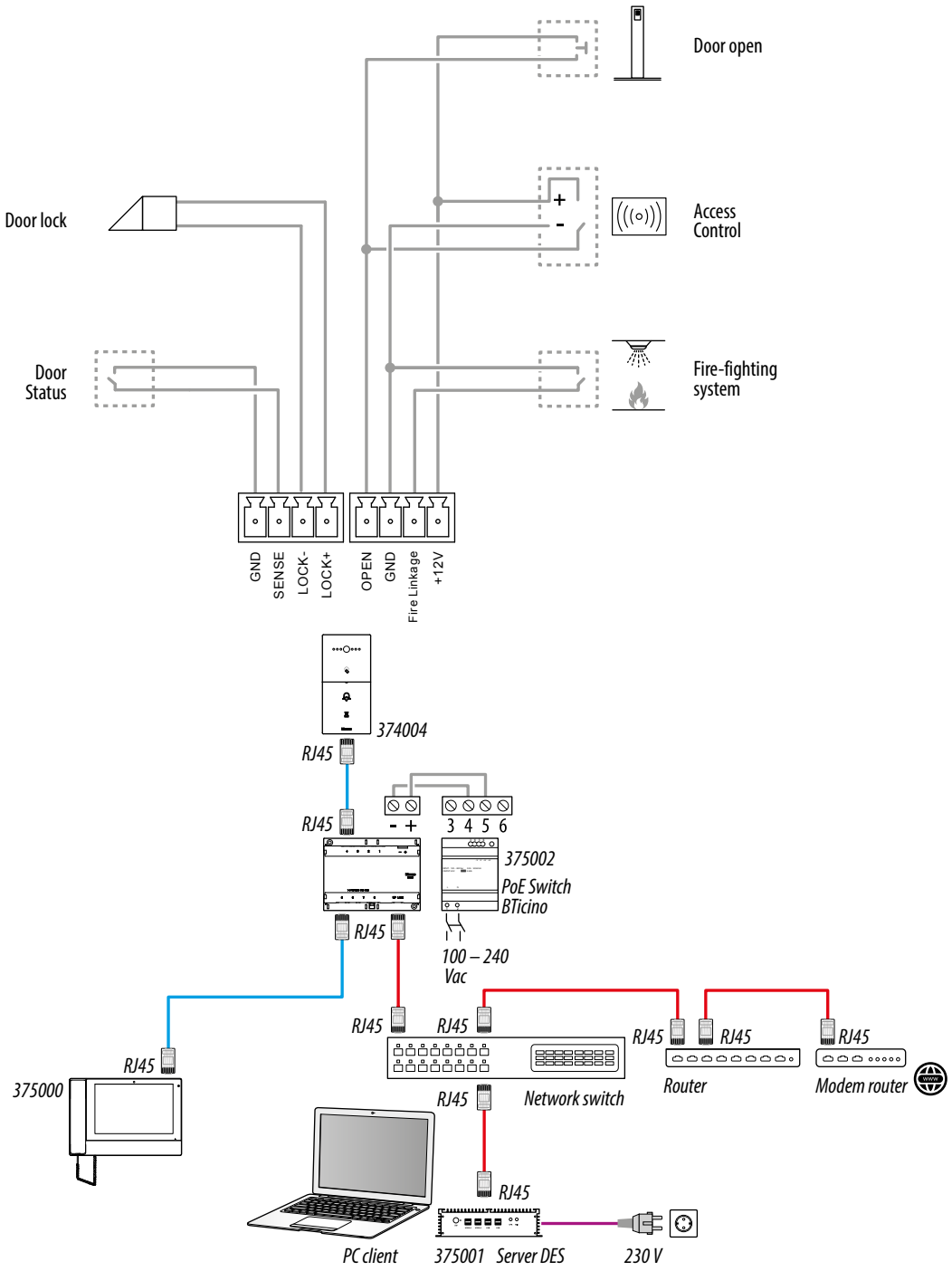
CABLES LEGEND	LAN PoE Standard	LAN PoE BTicino	LAN Ethernet	Copper cables	n° 2 Copper cables



***Attention**: check the installation precautions and notes*

Available functions

CABLES LEGEND	LAN PoE BTicino	LAN Ethernet	Copper cables	2 x Copper cables



***Attention**: do not directly connect PoE ports to an unsuitable network interface, such as a device powered by a different voltage. Connect the UP LINK port to a suitable port, never to a PoE port.*

***Note**: to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.*

Use of the device

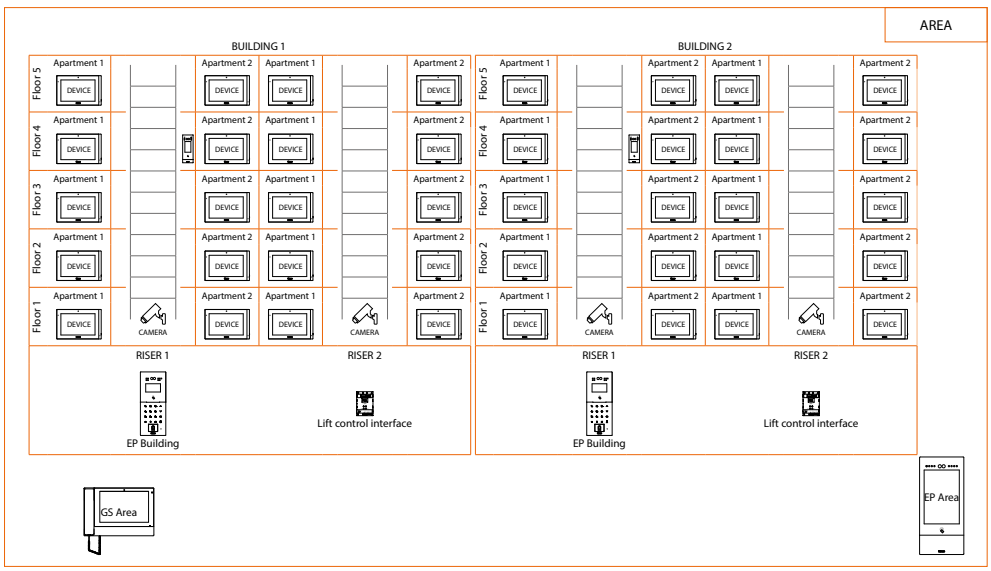
After installing the SEP it is possible to:

- Call an IU
- Leave a message in the answering machine
- Call a GS
- Access using badge or card;
- Set the parameters

Introduction

After the installation and connection of the device, it is necessary to configure it and create the Community structure. For details see Server DES Software manual.

- Step 01 Community VLAN network creation
- Step 02 Community structure definition
- Step 03 Community structure creation
- Step 04 Device MAC address registration
- Step 05 Community customisation
- Step 06 Saving of passwords
- Step 07 Registration of the Community on the Installer's Cloud
- Step 08 Forwarding of the address book to the DES Server
- Step 09 Installation of the devices
- Step 10 Activation of the devices
- Step 11 System test
- Step 12 Update of the devices

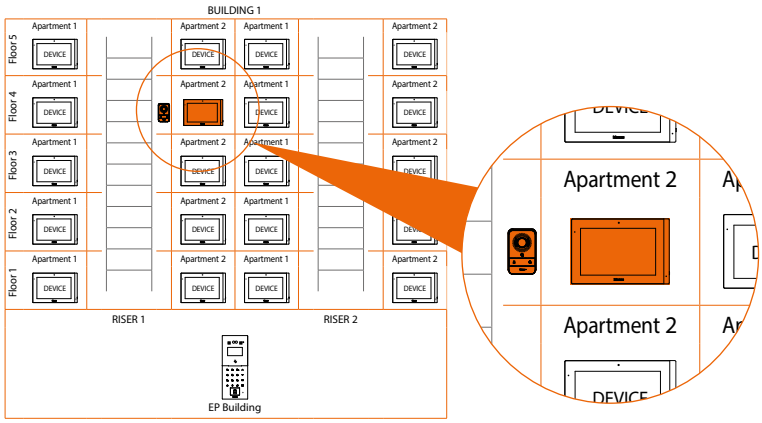


Functions

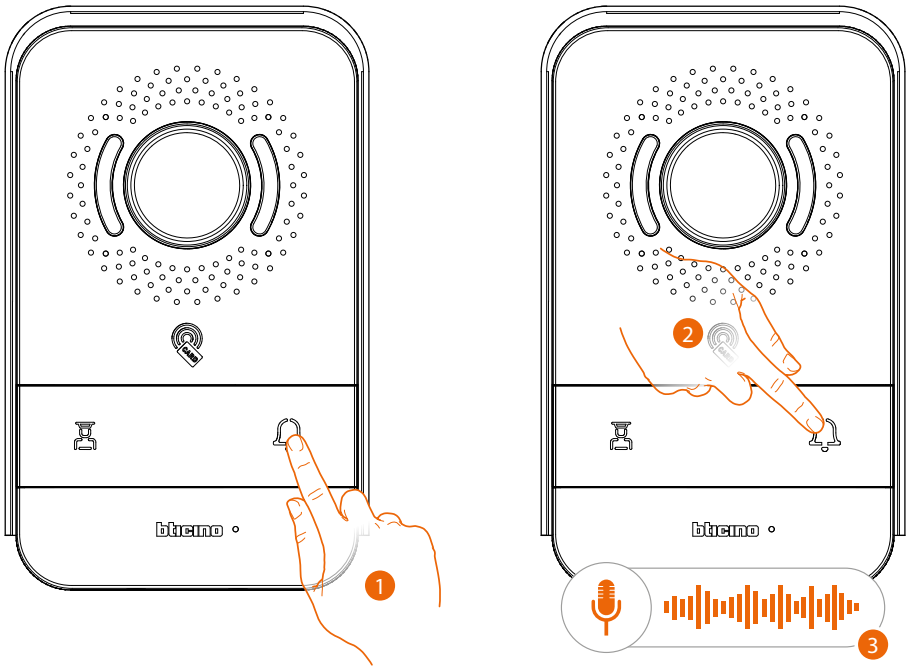
Call a IU

Using the appropriate key, you can call:
- The IU of the same apartment (if in the Community structure the SEP has been entered in the same apartment as the IU).
- any Community IU (if the IU address has been set in the configuration web pages, see Other setting/call machine).

Caution: *If the SEP is not in the same apartment as the IU and no address has been set in the web pages, no IU is called when the key is pressed.*



The IU to call may be changed in the configuration web pages (see Other setting/call machine).



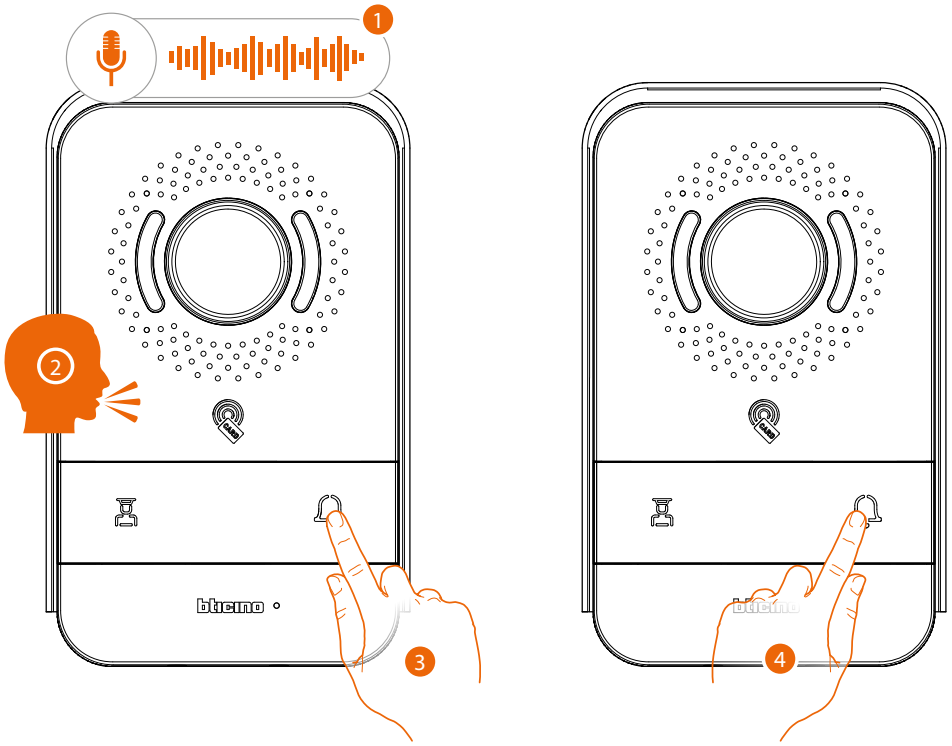
1. Touch to transfer the call
2. Touch to end

When the IU does not answer, a message can be recorded, see Answering machine

3. A voice message indicates that the call is ended

Answering machine

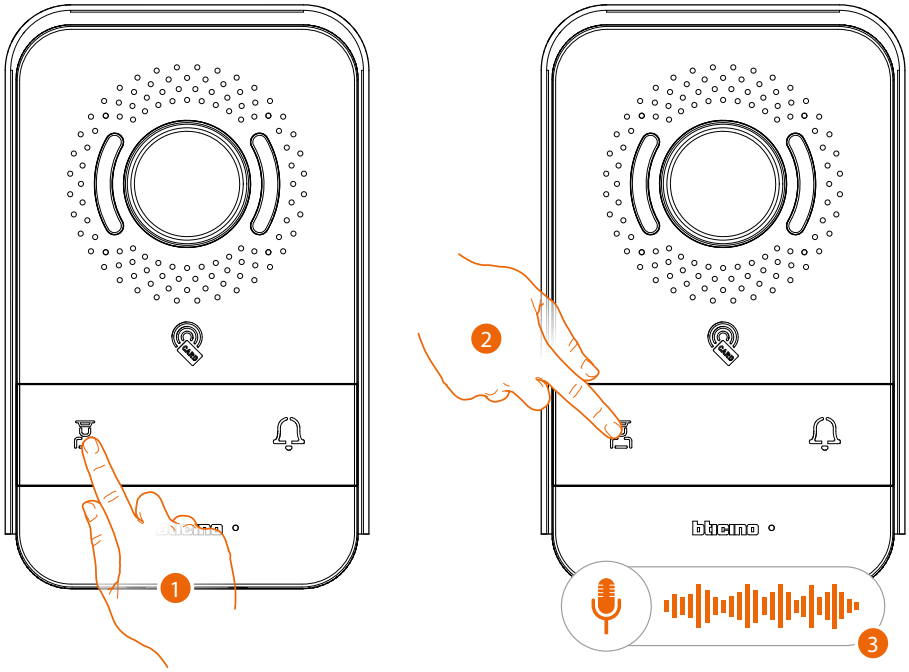
If the IU does not answer within few seconds, it is possible to leave a photo with an audio message.



1. After the waiting time has elapsed, a voice message prompts to leave a message.
2. You have 5 seconds to leave a message
3. Touch to start the recording
4. Touch to end the recording or wait for the timeout. The IU will receive your image and the voice message

Call a GS

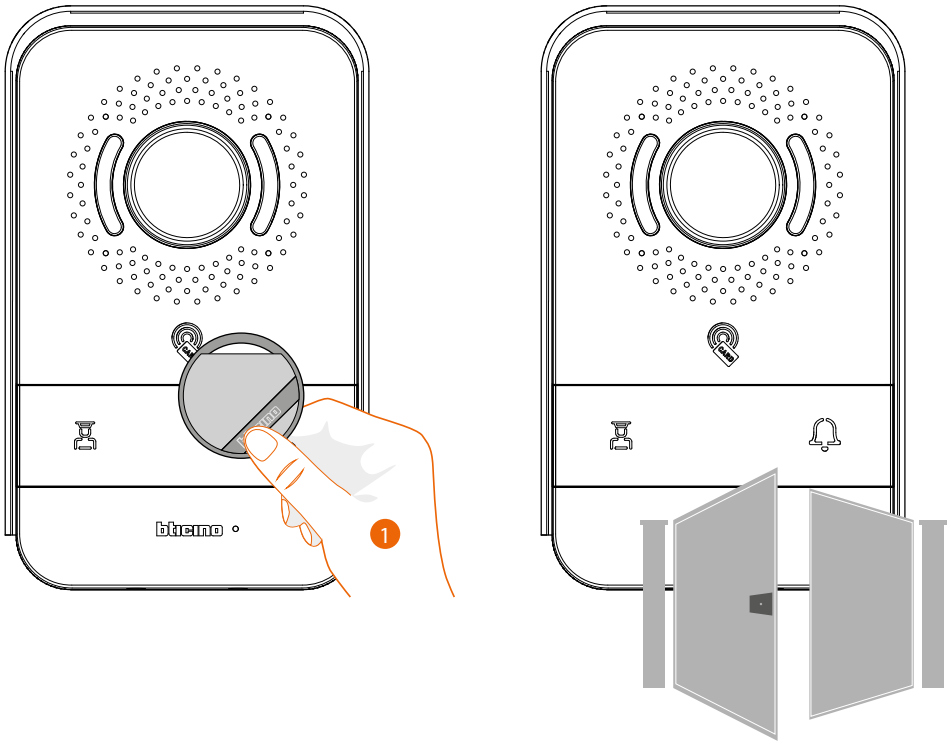
Using the appropriate key, it is possible to call the GS set in the software or the configuration web pages (see Other settin/call MC).



1. Touch to transfer the call
2. Touch to end
3. A message confirms the end of the communication

Access using badge or card

Using this function you can access the building using a badge or a card.
To use this function, the badge or card must be saved in the system via SW.

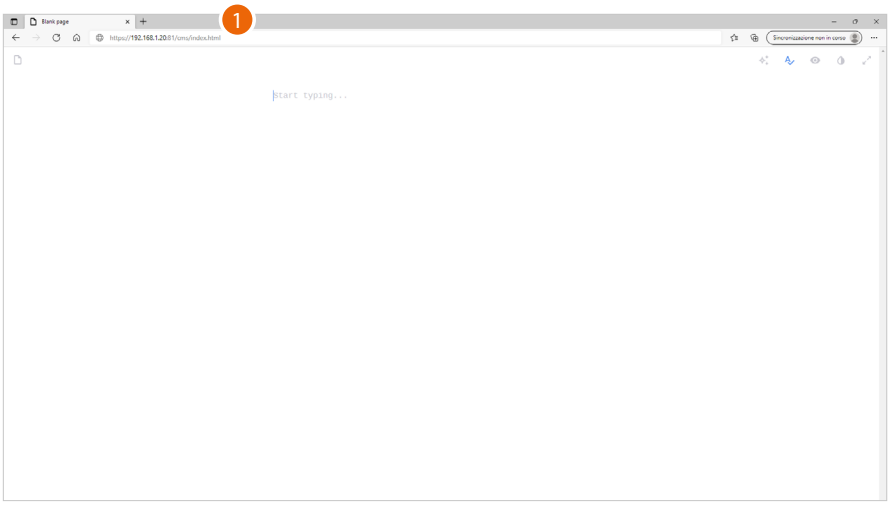


1. Move the badge or card on the reader
2. Beeps will confirm that the badge/card has been recognised and the door lock will open.

***Note**: If the system is set up to manage the lift control function (only with interface 375010), opening the gate will also activate at the same time the configured lift call function*

Settings

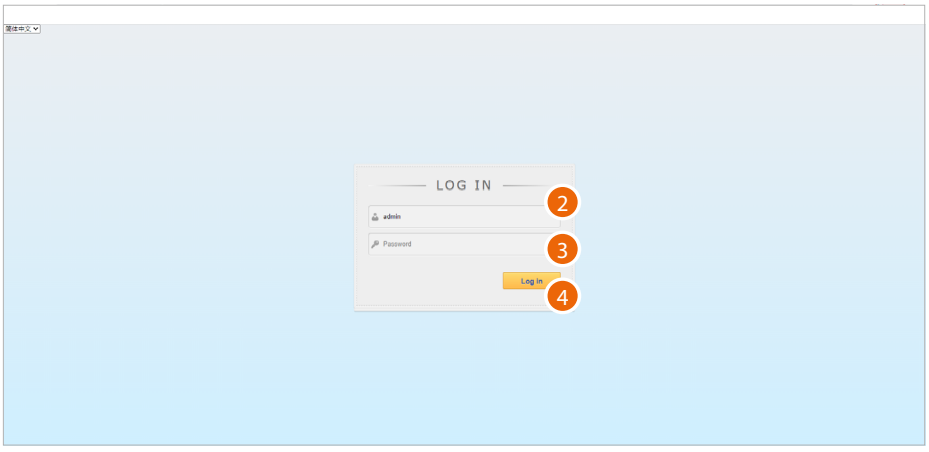
Using the web pages, it is possible to apply some customisations or settings.



1. Open the browser and enter the http address of the Small Entrance Panel Compact:

   https://SEP IP address

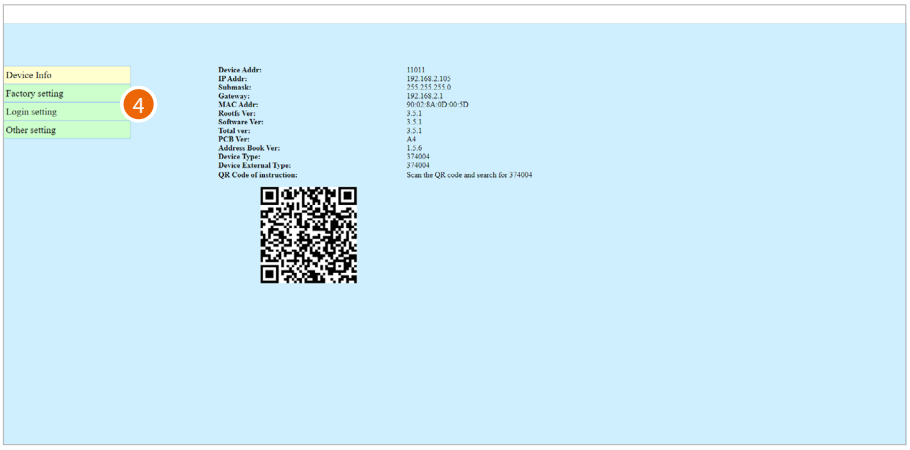
***Note**: Ask the system manager for the IP address*



2. Enter the login name (default admin)
3. Enter the installer password to access the configuration section (ask the plant manager for your password, available in the device parameters section of the SW)
4. Click to confirm

***Caution**: Save the passwords in a safe place that is always accessible.*
(Cloud backup activation recommended).
If both the SD and the backup are unavailable, it will not be possible to retrieve the passwords.

***Note**: The passwords of the devices incorrectly activated in DEMO mode are: 2000 (EP) and 1111 (IU and GS)*

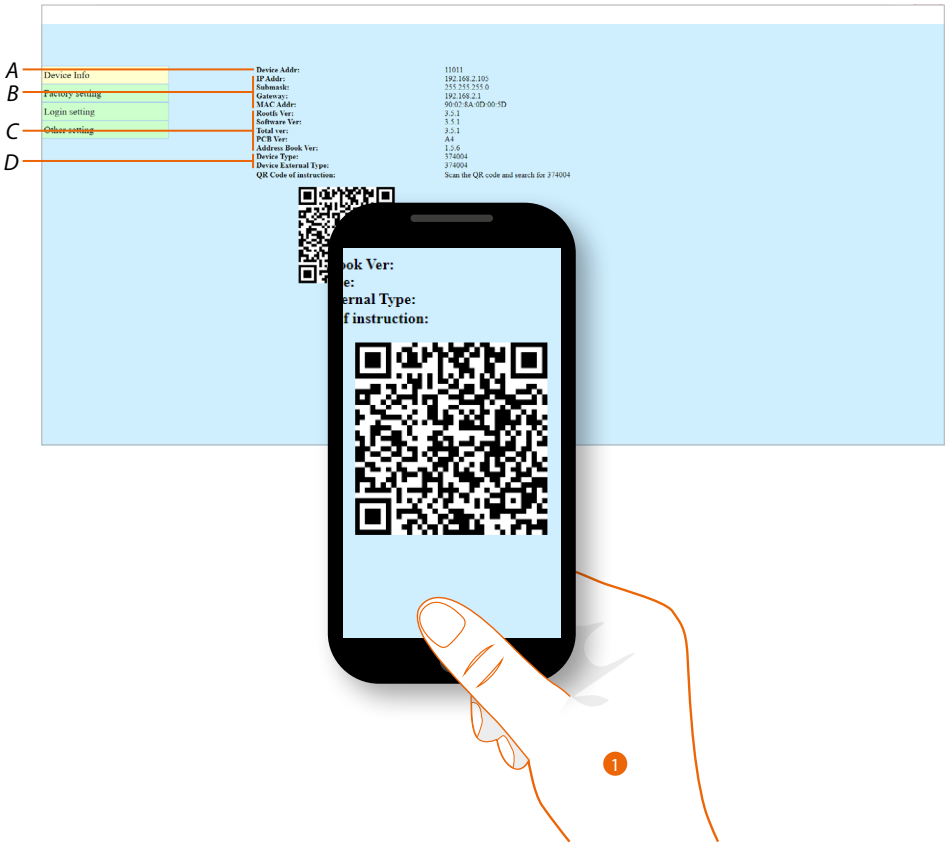


5. Touch to select the page with the desired configurations

Device info	Displays information regarding the device and allows to download this manual using the QR code.
Factory setting	Allows to send the configuration and restore the factory values of the device
Login setting	Allows to change the installer password to access the web pages
Other setting	Allows to display and change some device parameters

Device info

In this section, it is possible to display information regarding the device and download this manual using the QR code.



A Device address

B Network parameters

C Versions of the different device components

D Item code

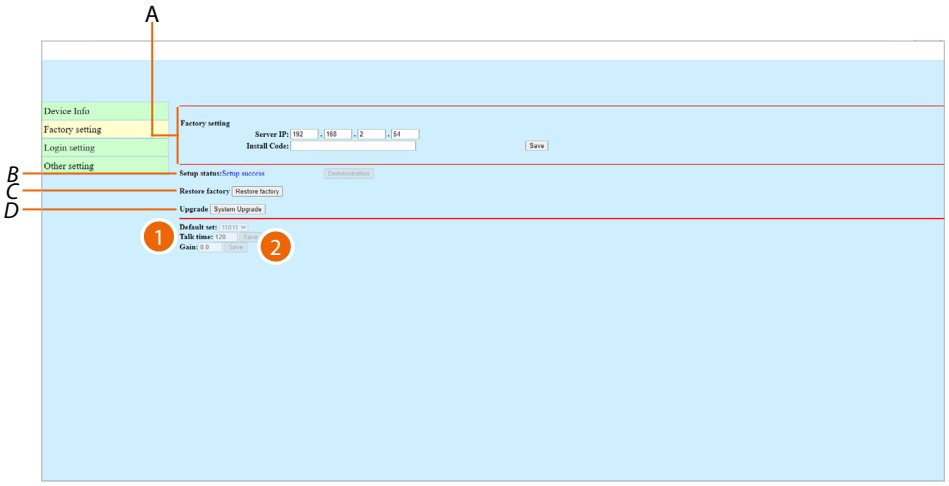
1. Using a smartphone, scan the QR Code

Inside the site, search for the 374004 code and download the manual

Factory setting

This section offers some functions for managing the device:

- Forwarding of the configuration to the device (address book and other customisations)
- Reset of the factory data
- Firmware update
- Modification of parameters



A *Send the configuration to the device*

B *Display the System status*

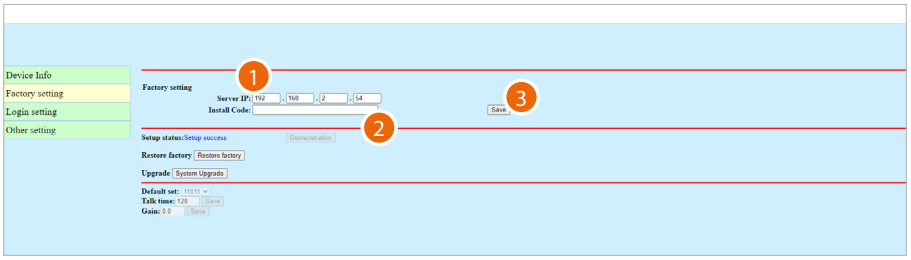
C *Reset the factory data*

D *Update the firmware (not to be used, reserved for developers)*

1. Select the call duration time
2. Click to send

Send the configuration to the device

This function is to be used in the event that sending the configuration completed using the SD software (Notify the device to update the Address book) was unsuccessful.



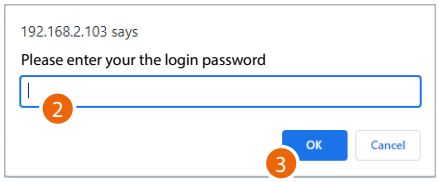
1. Select the SD network address
2. Enter the installer code
3. Click to send

4. Click to confirm

Restore factory

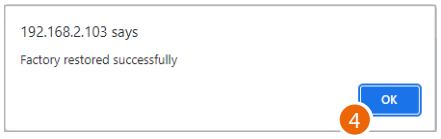
This function restores the factory values of the device.

1. Click to start the procedure



2. Enter the installer password
3. Click to confirm

***Caution**: All settings will be deleted and the parameters will be restored to factory values*



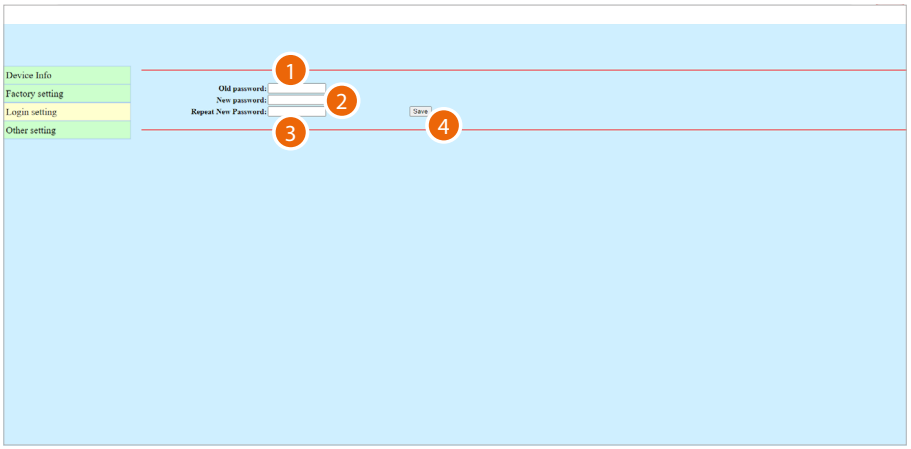
4. Click to finish

***Caution**: Save the passwords in a safe place that is always accessible.*
(Cloud backup activation recommended).
If both the SD and the backup are unavailable, it will not be possible to retrieve the passwords.

***Note**: The passwords of the devices incorrectly activated in DEMO mode are: 2000 (EP) and 1111 (IU and GS)*

Login setting

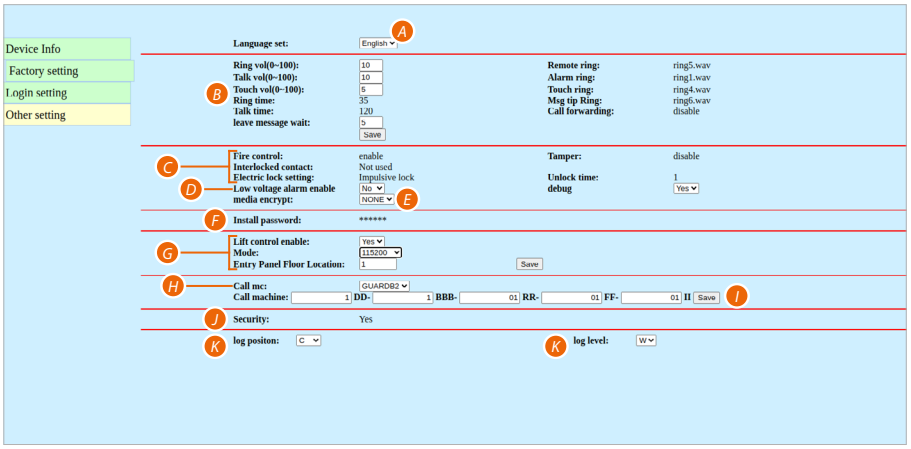
This section can be used to change the installer password to enter the web pages



1. Enter the installer password used to access the web pages
2. Enter a new installer password
3. Enter the new installer password again
4. Touch to save

Other setting

In this section, you can view and change some of the device parameters, such as the language that will be used by the device for voice messages, or the IU and GS addresses to which the call will be sent using the appropriate key.



A Select the language that will be used by the device for voice messages (e.g. 'Door open')

B ***Set the audio parameters***

C ***Display the status of some functions***

D Future use

E Future use

F Display the installer password

G ***Set the parameters of the Lift Control function***

H Select the GS address to which the call will be sent using the appropriate key

I Select the IU address to which the call will be sent using the appropriate key

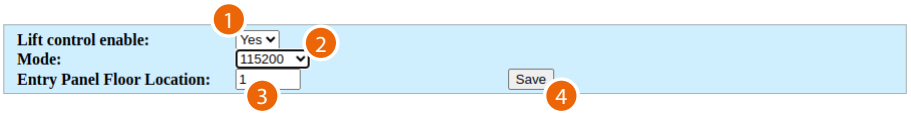
J Display the encryption status (not to be used, reserved for developers)

K Set the log management mode (not to be used, reserved for developers)

Lift Control

In this section it is possible to set some parameters of the Lift Control system

Master mode



1. Enable/disable the "Lift Control" function
2. Select if the EP is Master (9600 or 115200), i.e. directly connected with the Lift control interface via RS485 (for interface 375010 select 9600)
3. Select the floor where the EP is located
4. Click to save the settings

It is possible to display some wiring diagram examples in the Lift control section

For more information, see "Lift Control Interface software manual item 375010"

Slave mode

1. Enable/disable the "Lift Control" function
2. Select if the EP is Slave, i.e. not directly connected with the Lift control interface via RS485 but uses another EP as gateway.
3. Select the floor where the EP is located
4. Enter the IP address of the Master EP (only if EP is slave)
4. Click to save the settings

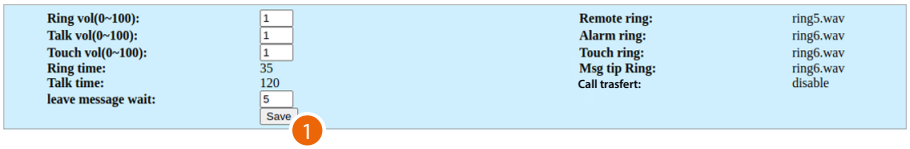
IP-Relay mode

1. Enable/disable the "Lift Control" function
2. Select if a lift control interface 375013 is used.
3. Select the floor where the EP is located
4. Click to save the settings

It is possible to display some wiring diagram examples in the Lift control section

For more information on the use with interface 375013 see "IP DES SYSTEM software manual".

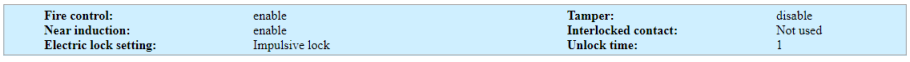
Audio parameters



Ring vol (0~100):	Adjust the ringtone volume
Talk vol (0~100):	It adjusts the call volume
Touch vol (0~100):	It adjusts the tone volume when a key is pressed
Ring time:	Display the ringtone duration time
Talk time:	Display the call duration time
leave message wait:	Set the time within which it will be possible to leave a message in the answering machine. This time is connected with the ringing time (default 35 seconds). E.G.: if the time is set to 5 seconds, the ringing time will be 30 seconds.
Remote ring:	Call in progress tone (ringback)
Alarm ring:	Alarm tone
Touch ring:	Keypad sound
Msg tip ring:	Displays the name of the file used for the answering machine start recording message
Call trasfert:	Displays the status of the call transfer to the GS

1. Clicca per salvare i parametri

Function status



Fire control:	Indicates if the fire-fighting function is enabled or disabled
Near induction:	Not used
Electric lock setting:	Indicates the electric door lock connection mode **Impulsive lock**: the lock connected to the Lock+ / Lock- clamps can be controlled using pulse commands **Timed lock**: the lock connected to the COM/NC/NO clamps can be controlled using timed commands
Tamper:	It indicates if the SEP tamper alarm is enabled, to protect it from removal by intruders.
Interlocked contact:	Show whether the door status control contact is NO, NC or unused
Unlock time:	If the *Electric lock is set* to *Timed Lock*, this parameter indicates the contact activation time in seconds

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