www.bticino.com

IP DES - 10" touch display indoor unit with internal camera

373001

Description

10" touch display indoor unit with internal camera and SOS pushbutton.

From the touch display, it is possible to answer the call, open the lock, call the other apartments and the guard station, view call and alarm logs, leave audio messages, receive messages form the guard station, adjust the settings (e.g. brightness, screensaver, backgrounds and ring tone), and view date/time information.

Alarm management can be easily integrated thanks to 8 pre-arranged dedicated contacts. The integration with the CCTV IP cameras allows to view the IP cameras of the apartment and the common area from the indoor unit. The specific integration also allows control of the lift.

It is possible to associate the video indoor unit to the Home + Security App (available for Android and iOS). The App allows to use functions such as: receiving calls, door lock release, display of the event timeline and activation of the entrance panel. With the Home + Security App, it is also possible to manage the products of the Netatmo Security range (outdoor and indoor cameras, door and window sensors, indoor siren, smoke detector).

This allows you to quickly and easily create a Smart security system.

The indoor unit can be PoE (power over Ethernet) powered, or directly powered using power supply 375005. Wall mounted using the supplied bracket.

Technical data

|	
Voltage:	24 Vdc
Maximum consumption:	0.45 A
Max. cable section for clamps:	0.8 mm^2
Operating temperature:	(- 10) – (+ 55) °C
IP degree of protection:	IP30
Maximum relative humidity:	93%
Operative system:	Android 7

Dimensional data
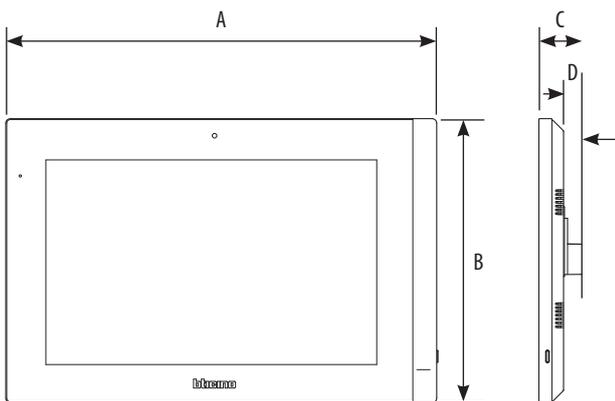
A	B	C	D
280 mm	186 mm	28 mm	16 mm

Front view
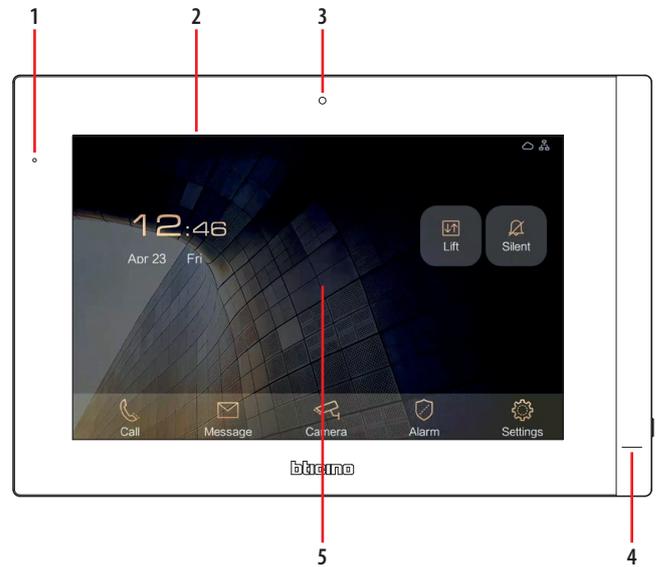
Side view
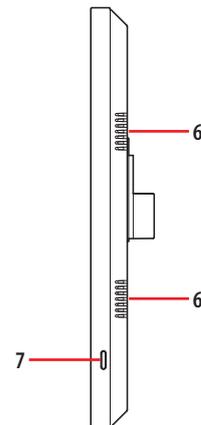
Legend

1. Microphone
2. Display 10" (touch screen)
3. Camera
4. Notification LED
   LED flashing= notification of a message
5. Home Page
6. Loudspeaker
7. SOS push button

Rear view
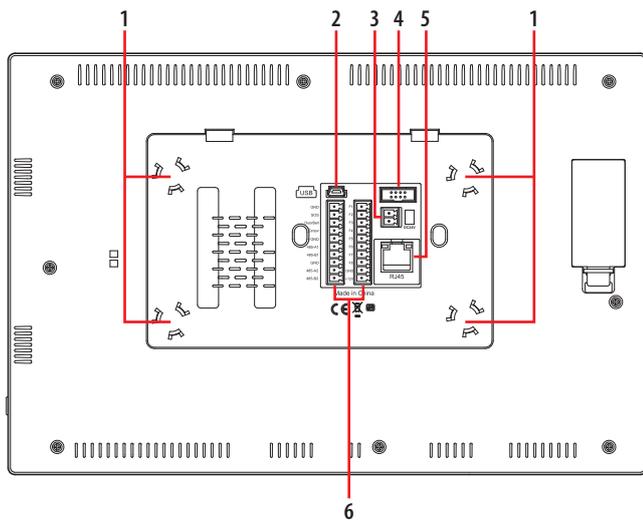
Legend

1. Fixing magnets for bracket
2. USB Connector (not used)
3. Additional power supply clamps (not polarized)
4. Not used
5. RJ45 Connector *
6. Connection clamp

* **This device does not support standard POE power supplies, but only POE power supplies identified with 375002.**
Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector.


Connection clamps

SOS – GND	Additional SOS call	F1 – GND	Infrared
DoorBell – GND	Door bell call	F2 – GND	Magnetic contact
Tamper – GND	Tamper	F3 – GND	Smoke sensor
GND		F4 –GND	Gas sensor
485-A1		F5 – GND	Water sensor
485-B1	future use	F6 – GND	Magnetic contact
GND		F7 – GND	Magnetic contact
485-A2		F8 – GND	SOS
485-B2		+12V – GND	12Vdc, maximum 150 mA sensor power supply
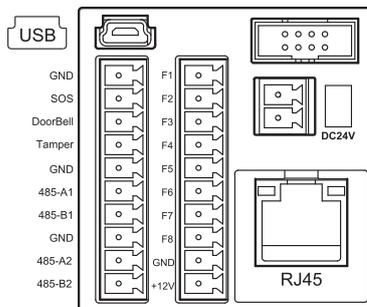
All contacts must be connected to GND and the corresponding dedicated input. The functions and wiring mode of the inputs are set by default as shown in the table and diagram, they can be customized using the software and/or straight from the device. Tamper and Doorbell input are not customizable and SOS-GND is disable by default.

Configuration

To use the device, it is necessary to configure it and create the Community structure using the DES Server software, following the steps below:

|		
Step	01	Community VLAN network creation
Step	02	Community structure definition
Step	03	Community structure creation
Step	04	Device MAC address registration
Step	05	Forwarding of the phonebook to the Server DES
Step	06	Installation of the devices
Step	07	Activation of the devices
Step	08	System test

For further information, please refer to the Server DES Software Manual, available for download from www.homesystems-legrandgroup.com website.

Wiring diagrams

CABLES LEGEND	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:

A - Diagram with power supply by BTicino PoE Switch
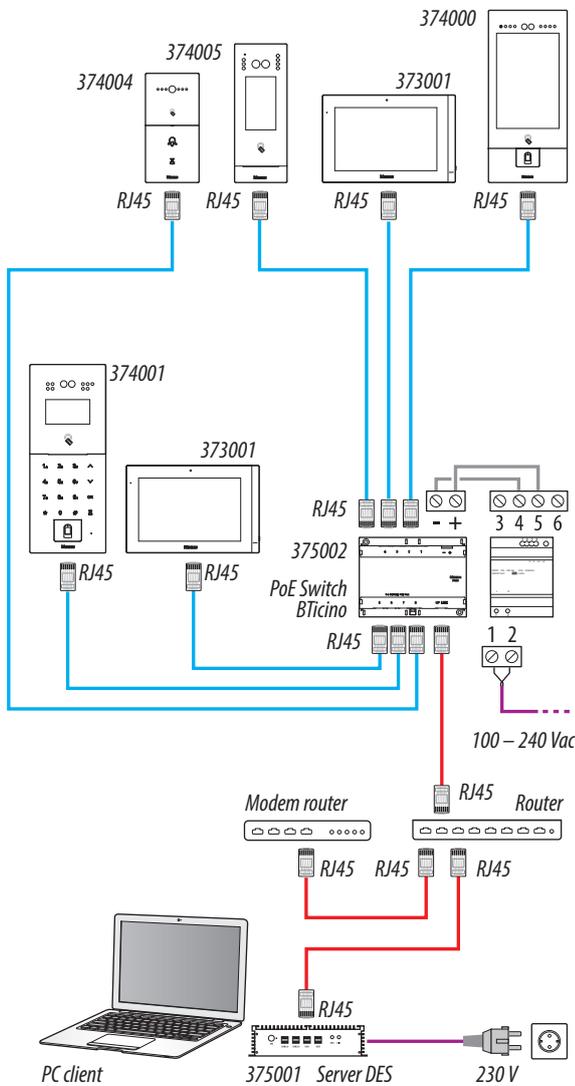
B - Diagram with local power supply
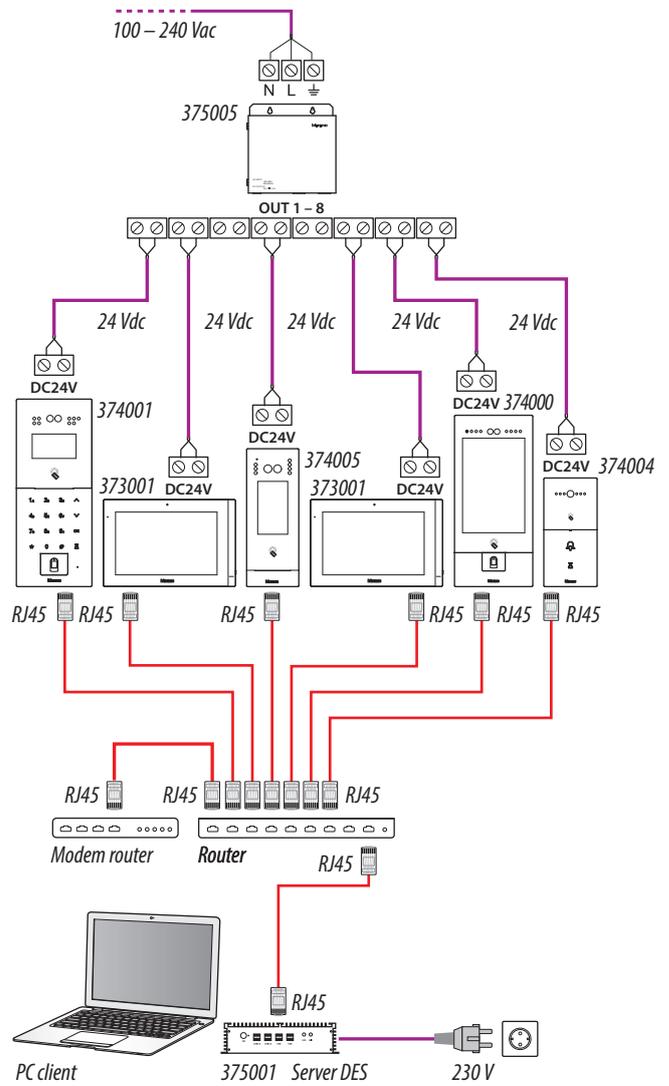
Attention: this device does not support standard POE power supplies, but only POE power supplies identified with 375002. Connect the cat5/5e/6 FTP or cat5/5e/6 UTP cable with ferrite supplied to the connector.

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.

Ethernet connection

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

FLOOR 3

APARTMENT 5

374004
373001 RJ45 373001 RJ45
RJ45
374005
PoE Switch BTicino
375002
RJ45
100 – 240 Vac
- + 3 4 5 6

APARTMENT 1
RJ45 373001

APARTMENT 2
RJ45 373001

APARTMENT 3
RJ45 373001

RJ45 RJ45
RJ45 Network switch

RJ45
APARTMENT 4
373001

RJ45
PoE Switch BTicino
375002
- + 3 4 5 6
100 – 240 Vac

FLOOR 2

Standard PoE switch

RJ45 RJ45

RJ45 RJ45 RJ45

OnVif IP cameras

RJ45 RJ45
RJ45 Network switch

APARTMENT 1
RJ45 373001

APARTMENT 2
RJ45 373001

APARTMENT 3
RJ45 373001

RJ45
APARTMENT 4
373001

RJ45
PoE Switch BTicino
375002
- + 3 4 5 6
100 – 240 Vac

FLOOR 1

OUT 1 – 8
375005
N L V- V+

374001
DC24V
RJ45

RJ45 RJ45 RJ45 RJ45
Network switch
RJ45 RJ45 RJ45 RJ45

APARTMENT 1
RJ45 373001

APARTMENT 2
RJ45 373001

APARTMENT 3
RJ45 373001

RJ45
APARTMENT 4
373001

RJ45
PoE Switch BTicino
375002
- + 3 4 5 6
100 – 240 Vac

OUT 1 – 8
375005
DC24V
375000
N L V- V+
RJ45

PC client

RJ45 RJ45
Router

RJ45
Modem router

RJ45 375001 Server DES 230 V

PoE Switch BTicino
375002
RJ45 RJ45 RJ45
- + 3 4 5 6
100 – 240 Vac

375000
RJ45

374000
RJ45

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.

Fiber optic riser connection (case of higher bandwidth demand)
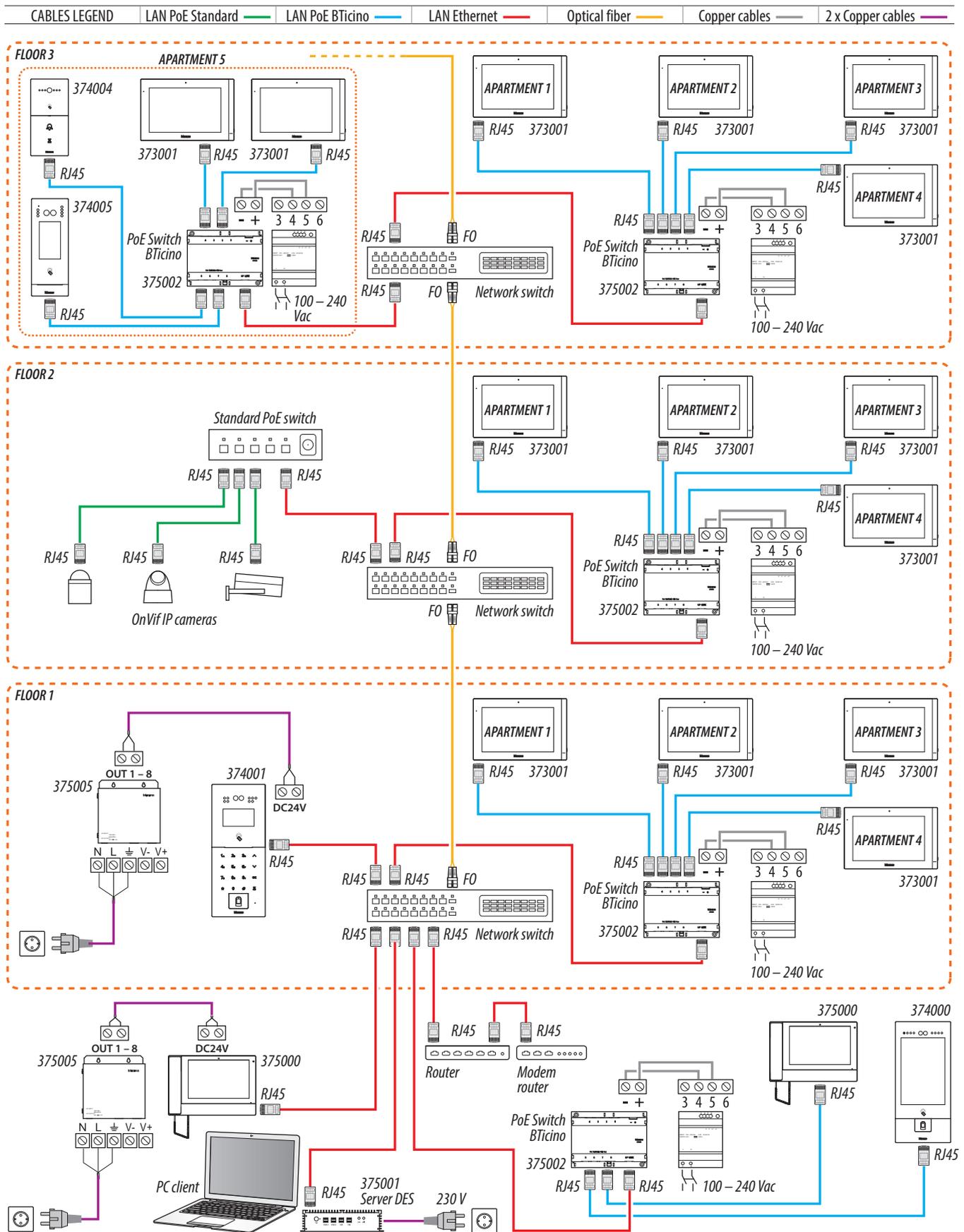
| CABLES LEGEND | LAN PoE Standard ── | LAN PoE BTicino ── | LAN Ethernet ── | Optical fiber ── | Copper cables ── | 2 x Copper cables ── |

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.

Intercom function

Audio intercom between internal unit:

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

2 - inside the same apartment.
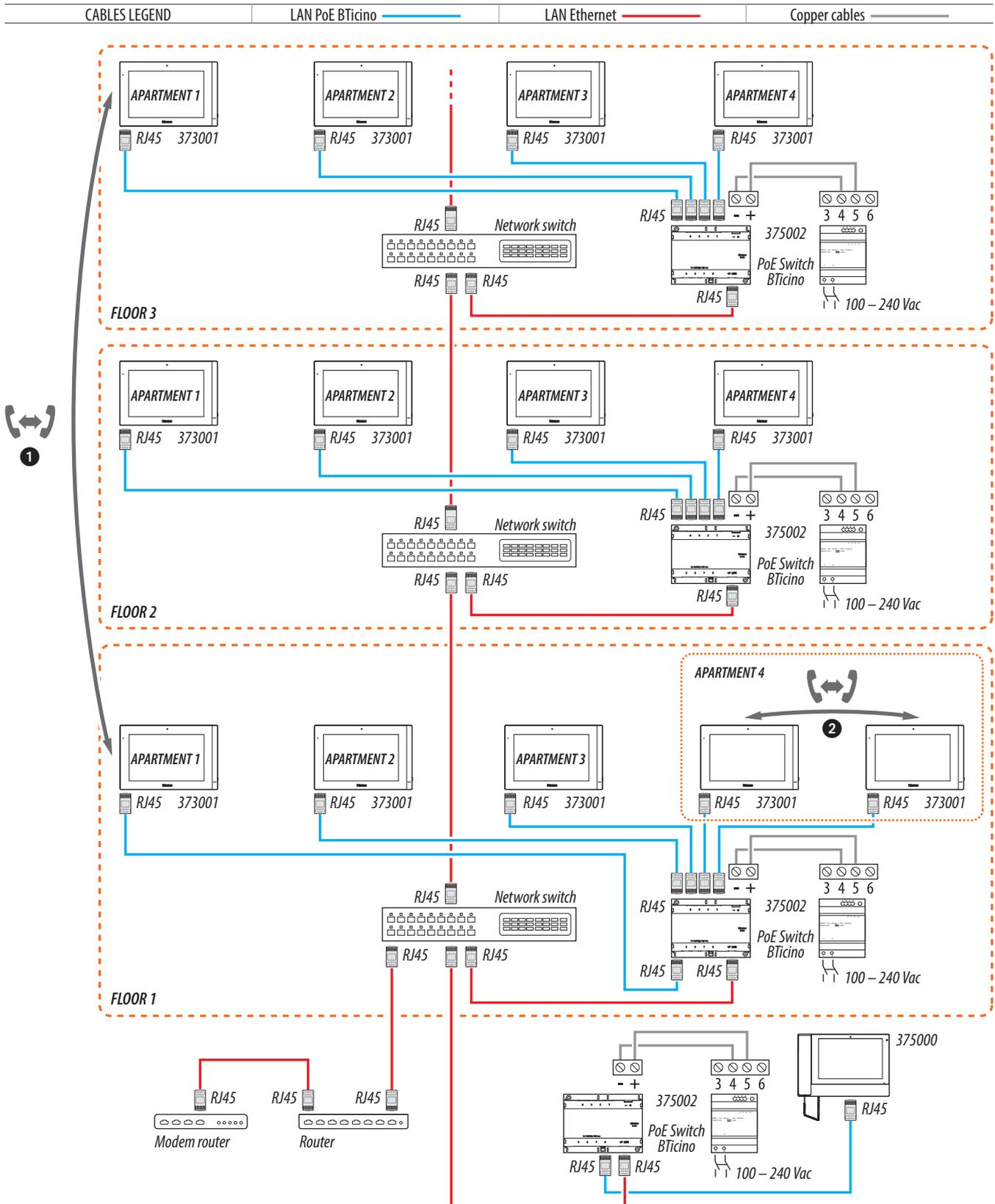
| CABLES LEGEND | LAN PoE BTicino ———— | LAN Ethernet ———— | Copper cables ———— |

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.

Available functions

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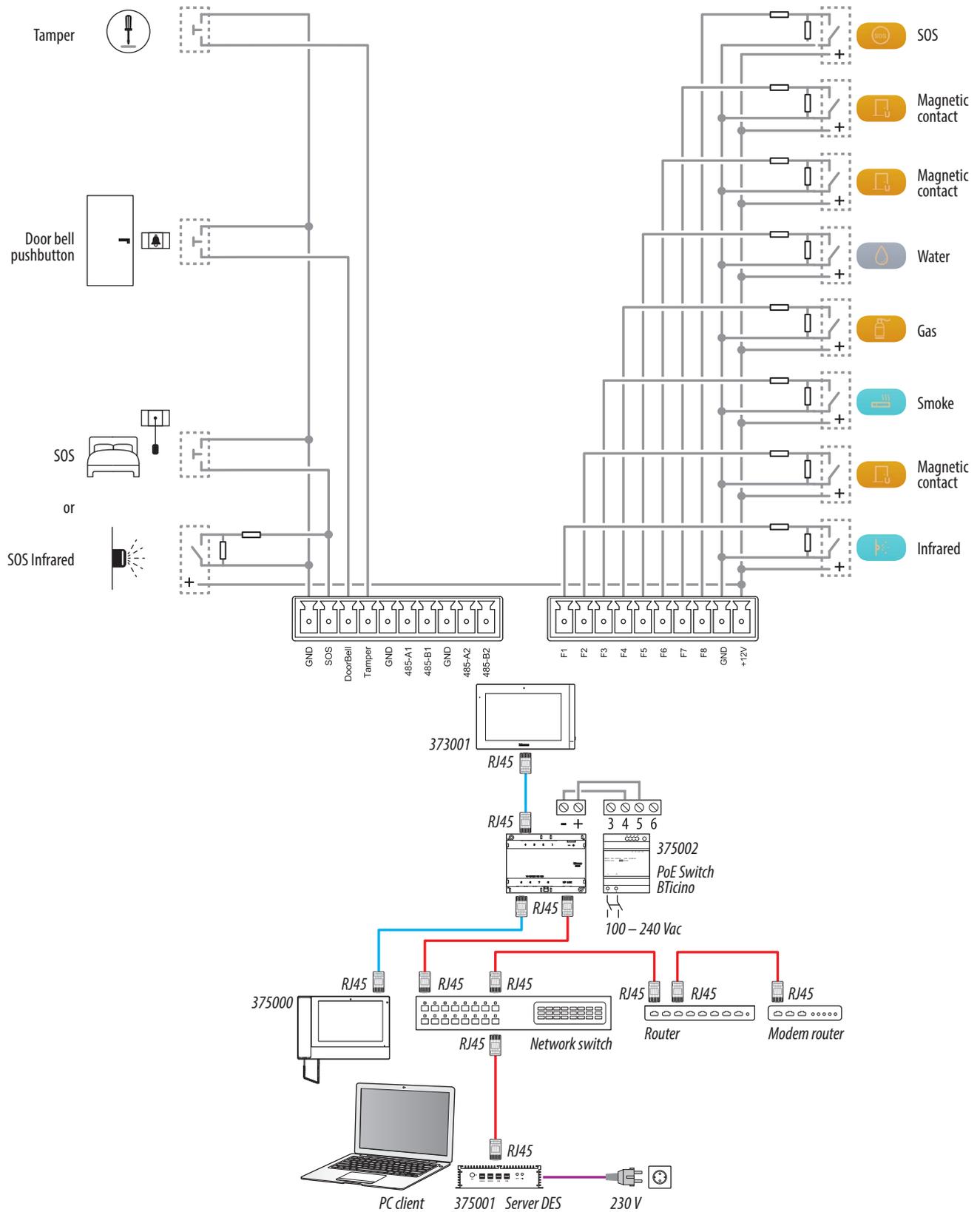
Tamper

Door bell pushbutton

SOS

or

SOS Infrared

SOS

Magnetic contact

Magnetic contact

Water

Gas

Smoke

Magnetic contact

Infrared

GND | SOS | DoorBell | Tamper | GND | 485-A1 | 485-B1 | GND | 485-A2 | 485-B2

F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | GND | +12V

373001

RJ45

RJ45

− + | 3 4 5 6

375002
PoE Switch BTicino

100 – 240 Vac

RJ45 RJ45

375000

RJ45

RJ45 RJ45 RJ45

RJ45 RJ45 RJ45

Router

Modem router

RJ45 Network switch

PC client

RJ45

375001 Server DES

230 V

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: the alarm functions are the default ones. It is possible to modify them in the appropriate section.
Note: Use the supplied resistors (560 Ohm ±5%, 1/4 W).
Note: to connect the devices it is possible to use both types of wiring (diagram A or diagram B) or even mixed ones.

Main functions

From the Home Page of the device, it is possible to access the main functions, as described below:
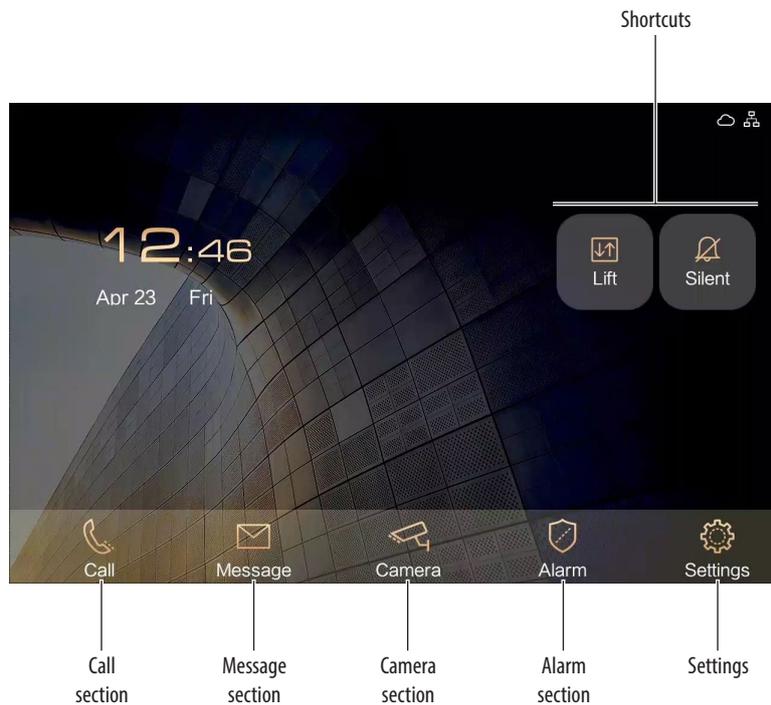
Call

In Call section is possible to see call history with details, make call to other residents and guard station, save favorite contacts.

Messagge

In Messagge section is possible to display messages with text, pictures and video sent from facility manager (adverstising, community and emergency messages), check answering machine audio message with snapshot left by visitor and audio messages left by other resident of the apartment on the indoor unit (family message), access history.

Auto-switching on Function

The Auto-switching on function allows the management of the direct automatic switching on of the entrance panel and the display of the CCTV cameras of the common areas and the individual apartment.

Alarm Function

The Alarms function allows the management of the alarms from sensors connected to terminals F1 to F8, such as infrared sensor, gas sensor, SOS sensor, leak sensor, and so on.

Integrated camera

The integrated camera allows to perform video call between other apartments and guard station.

Lift control

From shortcut it is possible to call the lift from the indoor unit.
This function requires the lift control integration made with 375010 protocol transaltor interface.