

**Main mechanical features of vandal resistant panels for villas:**

**Vandal resistant (IK-09) and weatherproof (IP-44) panel.**

**Curved front of 2.5mm. thick injected aluminium in grey colour.**

**4mm. thick polycarbonate card holding or camera windows.**

**Double walled sound grille that prevents access to the sound circuit.**

**Security screws with special key.**

**Metal push buttons flushed with the panel and electrically isolated.**

**Steady illumination at the door panel (on audio panels only).**



**IP - 44**



**IK - 09**



## For Villas

### Audio systems

For audio systems with only one access door panel.

Select a door panel depending on the installation type: 4+'n' or 2 wires.

The system operates at 12Va.c., being necessary a TF-104 transformer (pag. 42).

Use a 12Va.c. lock release (pag. 78 and 79). PE-292 SE panel can only operate with automatic function a.c. lock releases (CV-24 series).

Use electronic call telephones with 4+'n' or 2 wires installation (pag. 62, 66 and 61 or 65), depending on the panel selection. The maximum number of telephones inside the same apartment is 3 for systems with 4+'n' installation. In systems with 2 wires installation, additional telephones are not allowed.

Schematic diagrams and sections chart are shown on page 94.

If accessories such as rain shields, surface boxes, ... are required, refer to page 33.

All necessary items to configurate one of these systems, with the exception of the lock release, are contained in K-201 AL, K-202 AL, K-2 AL, K-22 AL and K-22 SE kits (pag. 8 and 9).

The main electronic features of these panels for villas are:

Sound module with independent door panel and telephone adjusting level volume.

Electronic call with acoustic acknowledgement signal, confirming the call is in progress.



#### PE-295/1 AL

#### Audio door panel.

11229511

- 1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.

#### PE-292 AL

#### Audio door panel.

11229204

- To be used with T-920 or T-922 telephones only.  
1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.



#### PE-292 SE

#### Audio door panel.

11229205

- To be used with T-722VD telephone only.  
1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.  
**Available from 2nd quarter 2006.**

#### PE-295/2 AL

#### Audio door panel.

11229512

- 2 push buttons.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.



## For Villas

### Video systems

For video systems with one access door panel only.

#### 5 wires installation:

Use a FA-805 power supply (pag. 42).

Select a 12Va.c. lock release (pag. 78 and 79).

Use Platea 5 or Platea 5 Color monitors (pag. 70). Two additional T-901 or T-901VD telephones (pag. 65) can be placed in parallel. Additional monitors are not allowed.

#### 2 wires installation:

Use a FA-802 power supply (pag. 42).

Select a 12Vd.c. lock release (pag. 79).

Use Platea 2 or Platea 2 Color monitors (pag. 70). Additional units are not allowed.

Schematic diagrams and sections chart are shown on page 95.

If accessories such as rain shields, surface boxes, ... are required, refer to page 33.

All necessary items to configurate one of these systems, with the exception of the lock release, are contained in SV-805/AL, SV-805/AL Color, SV-802/AL and SV-802/AL Color kits (pag. 17).

The main electronic features of these panels for villas are:

Sound module with independent door panel and monitor adjusting level volume.

Adjustable pan and tilt CCD b/w or color camera with electronic iris and light emitters for night vision.

Electronic call with acoustic acknowledgement signal at the door panel, confirming that the call is in progress (on 5 wires systems only).



**PV-395/AL**

**B/W video door panel.**

11782941



1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.

**PV-395/AL Color**

**Color video door panel.**

11782946



1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.



**PV-292/AL**

**B/W video door panel.**

11782921



1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.

**PV-292/AL Color**

**Color video door panel.**

11782923



1 push button.  
Includes M embedding box.  
Dimensions: 144(W) x 144(H) mm.



## For Villas

### Embedding boxes



**M**

**Embedding box.**

11290290

Included with the door panel.  
Dimensions: 131(W) x 131(H) x 45(D) mm.

### Accessories



**VIS-295/AL**

**Rain shield.**

11290499

For embedded door panels.

**MP/AL**

**Surface box.**

11229509

Embedding box is required.  
Dimensions: 144(W) x 144(H) x 45(D) mm.



**MP-VIS/AL**

**Surface box with integrated rain shield.**

11290496

Manufactured in injected aluminium.  
Weatherproof and vandal resistant.  
Does not use embedding box.  
32 mm. depth only.



**Main mechanical features of vandal resistant panels for buildings:**

**Curved front of 2.5mm. thick injected aluminium in brown colour.**

**4mm. thick polycarbonate card holding or camera windows.**

**Double walled sound grille that prevents access to the sound circuit.**

**Security screws with special key.**

**Metal push buttons flushed with the panel and electrically isolated.**

**Steady illumination at the door panel.**

**In case of coded modules for digital installation:**

**Vandal resistant piezoelectric keypad of 4mm. aluminium thick, and 2 x 16 bias lighted LCD display with 6mm. thick polycarbonate protection.**



## For Buildings

### Audio systems with 4+'n' installation

For audio systems with only one access door panel.

Select a PE-295 audio module that contains the necessary electronics and push buttons.

Add CA-295 push buttons modules (pag. 36) until having the desired number of push buttons.

Use UC cable tunnel (pag. 41) to attach the embedding boxes (included in the modules).

The system operates at 12Va.c., being necessary a TF-104 transformer (pag. 42).

Use a 12Va.c. lock release (pag. 78 and 79).

Use electronic call telephones with 4+'n' installation (pag. 62 and 66). The maximum number of telephones inside the same apartment is three.

Schematic diagrams and sections chart are shown on page 94.

If accessories such as rain shields, ... are required, refer to page 41.

All necessary items to configure one of these systems, with the exception of the lock release, are contained in K-203 to K-208 kits (pag. 13).

The main electronic features of these modules for buildings are:

Sound module with independent door panel and telephone adjusting level volume.

Electronic call with acoustic acknowledgement signal, confirming that the call is in progress.



**PE-295/3**

**Audio module.**

11229523

- 3 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**PE-295/4**

**Audio module.**

11229524

- 4 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



**PE-295/6**

**Audio module.**

11229526

- 6 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



**PE-295/8**

**Audio module.**

11229528

- 8 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



## For Buildings

### Audio systems with 4+ 'n' installation



**CA-295/6**

**Push buttons module.**

11229586



6 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**CA-295/8**

**Push buttons module.**

11229588



8 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.





## For Buildings

### Audio and Video systems with digital installation

The components of audio and video systems with 'Plus' digital installation are fully compatible, allowing any type of combination without switching units: audio with video door panels (both 'Stadio' and vandal resistant), telephones with monitors, ... These systems allow configurations of up to 24 push buttons; in case of a higher number of apartments 'Stadio' push buttons panels or coded panels can be used.

#### Audio systems with 4 wires installation.

Select a PE4-295 audio module (pag. 38 and 39), which contains the necessary electronics and push buttons. Add a maximum of two CD-295 push buttons modules (pag. 39) until having the desired number of push buttons.

Use T-740 Uno (pag. 63), T-940 Uno or T-940 Plus (pag. 67) telephones.

#### Video systems with 3 wires + coaxial cable or 4 wires + twisted pair.

Select a PV-295 video module (pag. 39), which contains the necessary electronics and push buttons. Add a maximum of two CD-295 push buttons modules (pag. 39) until having the desired number of push buttons.

Add an EL560 transmitter module (pag. 40) for 4 wires + twisted pair installations.

Use Platea Plus or Platea Uno monitors together with the corresponding wall mounting connector (RCPL-Plus or RCPL-Uno respectively). In case of 4 wires + twisted pair installation, add an EL562 receiver module on each monitor (pag. 71 and 72).

#### Systems with coded panels.

Coded door panels can be programmed to be used on single buildings with one or several entrances and on main entrances of residential complexes with several internal buildings.

Select a PV-295/CODE video module or a PE4-295/CODE audio module, which contains the necessary electronics, the coded keypad and the LCD display. Operating instructions and apartments codes are shown on the LCD display; however, these informations can be directly consulted by adding C-295/CODE informative modules (pag. 40).

The CEV-295 embedding boxes are included in all modules. In case of door panels with more than one module, use UC cable tunnel (pag. 41) to attach the embedding boxes.

In case of systems containing "Uno" monitors or telephones, the maximum number of units is reduced to 200, and the total length of the installation can be no longer than 200 meters, measured from the door panel to the distant unit. To increase the number of units or to reach longer distances, use RD-Plus/Uno digital repeaters (pag. 68 and 76). In internal door panels of residential complexes, use one repeater on each panel containing "Uno" units.

Use a FA-Plus/C power supply on systems with 10 or less monitors or telephones, or a FA-Plus power supply for each group of 50 monitors or telephones. Use a FA-Plus/C power supply for slave panels of systems with several access door panels, and on main entrance panels for residential complexes (pag. 42).

The maximum number of units inside the same apartment is three.

Use 12Vd.c. lock releases (pag. 79).

Schematic diagrams and sections chart are shown on pages 98 to 105.

## For Buildings

### Audio and Video systems with digital installation

The main electronic features of these modules for buildings are:

- Audio and video modules with door panel and monitor (telephone) adjusting level volume.
- Adjustable pan CCD b/w or color camera with electronic iris and light emitters for night vision (only in video modules).
- Input for EL560 transmitter module which allows the transmission of the video signal over a twisted pair instead of a coaxial cable.
- Privacy on audio, video and door open progresses.
- Acoustic acknowledgement signals at the door panel confirming that the call is in progress or the system is busy. In case of coded door panels, the display will also show this information.
- Handset hang recognition which removes busy channel fixed times.
- D.c. lock releases activation with acoustic acknowledgement signal.

The main features of the coded modules are:

- Management of up to 255,000 apartments in a total of 255 buildings with coded door panels, or 3,048 apartments in a total of 127 buildings with 'Rock' push buttons panels.
- Easy system programming through the keypad or by using a computer.
- Selectable language.
- Text edition like a mobile phone keypad.
- Transmission of the repertory content to other door panels or porter's exchanges through the installation wires.
- Programmable lock release activation time between 0 and 99 seconds.
- Two calling methods: direct entry of the apartment code or by searching the tenant name in the repertory.
- Four codes access control of four digits each. The third code can be temporaly disabled. The last code (panic code), sends an alert message to the porter's exchange.
- Cyclic messages with instructions for use, time, user text (i.e. building or street names) and system status are shown in the display.



**PE4-295/3**

**Audio module.**

**11329543**

- 3 push buttons.
- Includes CEV-295 embedding box.
- Dimensions: 144(W) x 240(H) mm.

**PE4-295/4**

**Audio module.**

**11329544**

- 4 push buttons.
- Includes CEV-295 embedding box.
- Dimensions: 144(W) x 240(H) mm.

**PE4-295/6**

**Audio module.**

**11329546**

- 6 push buttons.
- Includes CEV-295 embedding box.
- Dimensions: 144(W) x 240(H) mm.





## For Buildings

### Audio and Video systems with digital installation



**PE4-295/8**

**Audio module.**

11329548

- 8 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**PV-295/3**

**B/W video module.**

11729523

- ▲ 3 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



**PV-295/4**

**B/W video module.**

11729524

- ▲ 4 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**PV-295/6**

**B/W video module.**

11729526

- ▲ 6 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



**PV-295/8**

**B/W video module.**

11729528

- ▲ 8 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**CD-295/6**

**Push buttons module.**

11329586

- ▲ ▲ ■ 6 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.

**CD-295/8**

**Push buttons module.**

11329588

- ▲ ▲ ■ 8 push buttons.  
Includes CEV-295 embedding box.  
Dimensions: 144(W) x 240(H) mm.



## For Buildings

### Audio and Video systems with digital installation



**PE4-295/CODE**

**Audio module.**

11329540

- Coded keypad and LCD display. Includes CEV-295 embedding box. Dimensions: 144(W) x 240(H) mm.

**PV-295/CODE**

**B/W video module.**

11729520

- ▲ Coded keypad and LCD display. Includes CEV-295 embedding box. Dimensions: 144(W) x 240(H) mm.



**PV-295/CODE Color**

**Color video module.**

11729521

- N ▲ Coded keypad and LCD display. Includes CEV-295 embedding box. Dimensions: 144(W) x 240(H) mm.

**C-295/CODE**

**Informative module.**

11329580

- ▲ ▲ ■ To show repertory codes, tenant names and instructions. Includes CEV-295 embedding box. Dimensions: 144(W) x 240(H) mm.



### Accessories



**EL560**

**Video transmitter module.**

11780560

- ▲ For video modules. Video signal over twisted pair.

## For Buildings

### Embedding boxes



**CEV-295**

**Embedding box.**

11259908

Included with the modules.  
Dimensions: 139(W) x 234(H) x 58(D) mm.

**UC**

**Cable tunnel.**

11259990

For attachment of 2 embedding boxes.



### Accessories



**VIS-295/1M**

**Rain shield.**

11229591

For 1 module door panels.

**VIS-295/2M**

**Double rain shield.**

11229592

For 2 modules door panels.



## Transformers and power supplies

In compliance with low voltage directives and electromagnetic compatibility directives.  
Short circuit and overload protections (except on TF-104).  
Installation over DIN 46277 guide or surface mounting with screws.

### TF-104.

For audio systems with 4+'n' or 2 wires installations.  
12Va.c. output. 230Vc.a. / 18VA input.

### FA-805.

For villas video systems with 5 wires, 3+coaxial or 4+twisted pair installations.  
18Vd.c. and 12Va.c. outputs. 110 or 230Va.c. / 38VA inputs.

### FA-802.

For villas video systems with 2 wires installation.  
26Vd.c. output. 110 or 230Va.c. / 38VA input.

### FA-Plus/C.

For audio and video systems with digital installation.  
To be used in systems with 10 or less monitors or telephones, slave panels of systems with several access doors and main entrance panels for residential complexes.  
18Vd.c. output. 110 to 230Va.c. / 27VA input.

### FA-Plus.

For audio and video systems with digital installation.  
To be used on systems with up to 50 monitors or telephones.  
18Vd.c. output. 110 to 230Va.c. / 72VA input.


**TF-104**
**Transformer.**

20691040



For audio systems with 4+'n' or 2 wires installations.  
Dimensions: 52(W) x 90(H) x 60(D) mm. (3 DIN).

**FA-805**
**Power supply.**

11704805



For villas video systems with 5 wires or digital installations.  
Dimensions: 124(W) x 90(H) x 75(D) mm. (7 DIN).


**FA-802**
**Power supply.**

11704802



For villas video systems with 2 wires installation.  
Dimensions: 124(W) x 90(H) x 75(D) mm. (7 DIN).

**FA-PLUS/C**
**Power supply.**

11705107



For digital systems with up to 10 monitors or telephones.  
Dimensions: 107(W) x 90(H) x 60(D) mm. (6 DIN).


**FA-PLUS**
**Power supply.**

11705109



For digital systems with up to 50 monitors or telephones.  
Dimensiones: 178(W) x 90(H) x 60(D) mm. (10 DIN).