



Access  
Control

Home  
Terminals

Audio & Video  
door entry  
systems

# FERMAX

General Catalogue 2017



**DESIGN**

Fermax Electrónica S.A.U.

**GENERAL CATALOGUE 2017**

1<sup>st</sup> Edition. February 2017

Download it on your mobile.

Check commercial conditions in the inside front cover.



Download the “Fermax for Real” app and get more information of the product by scanning the catalogue.



# FERMAX: TECHNOLOGY, DESIGN, INTEGRATION, PEOPLE

Throughout the decades, we have specialised in Audio and Video Door Entry Systems, Home Automation and Access Control Systems. We are a globally recognised brand.

Our job is to create innovative technology and the best design possible for the people as to offer buildings with more security, better communication and comfort.



## TECHNOLOGY

We incorporate the latest technology so that we offer equipment with more possibilities for communication, home automation and security using less resources. Therefore, we investigate and research into anything from computer technology to new biomaterial. We invest more than 5% of our sales figures and continue to invest year on year.

More than 30 international patents.



## DESIGN

The design of our products is strategic. It is the perfect tool to make the most affordable technology for the majority of the public and maintain products that deal with essential aspects of daily life. Our classic Spanish design is our trademark.

Design awards in: Milan, Hannover, Barcelona, Valencia, Madrid.



## PEOPLE

We believe in people and we work to better facilitate their day by day activities. Therefore, we create accessible products for those with any disability. We are social and environmentally friendly.

Ergonomic buttons  
Informative and multi-sense screens  
Adapted devices and accessories



## INTEGRATION

We offer comprehensive solutions for the needs of and all residential complexes. All production divisions of Fermax work together to offer a complete solution, with technologies that add value, differentiation and profitability to the installation.



## SUSTAINABILITY AND ECOLOGY

We apply environmental criteria to our products at all times, from the drawing board right through to dispatch. We consider all possible ecological impacts, including and going beyond those covered by government legislation, so as to fulfil our commitment to sustainable development and the care and protection of the environment.

**FERMAX**

BUILDING COMMUNICATIONS

One57  
NEW YORK - USA





*Isozaki Towers*  
BILBAO - SPAIN



*Uphill Court*  
ISTANBUL - TURKEY



*Palm Jumeirah*  
DUBAI - UAE



*Eureka Tower*  
MELBOURNE - AUSTRALIA



## FROM VALENCIA TO THE GLOBE



We have subsidiaries and representative offices in: Belgium, Colombia, China, France, Poland, Portugal, Russia, Singapore, Spain, Turkey, United Arab Emirates and United Kingdom.

We distribute our products in more than 70 countries. This indicates that there are millions of people around the world enjoying our products.

Our international presence has been constantly rising during the last four decades. It has allowed us a sustained growth and constant attention to the competitiveness. Nowadays, promoters, system integrators and architects from around the world choose Fermax for the quality of our products and our service.

And our proudest enterprise of all has been our participation in some of the most outstanding projects in the world.



# Fermax for Real

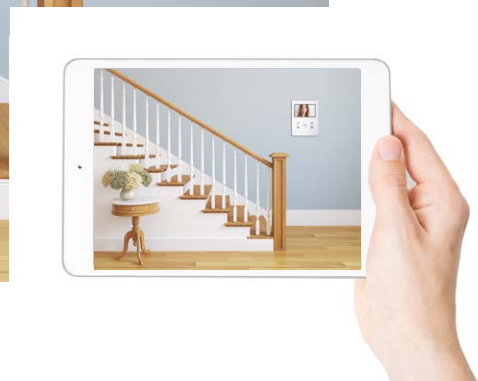
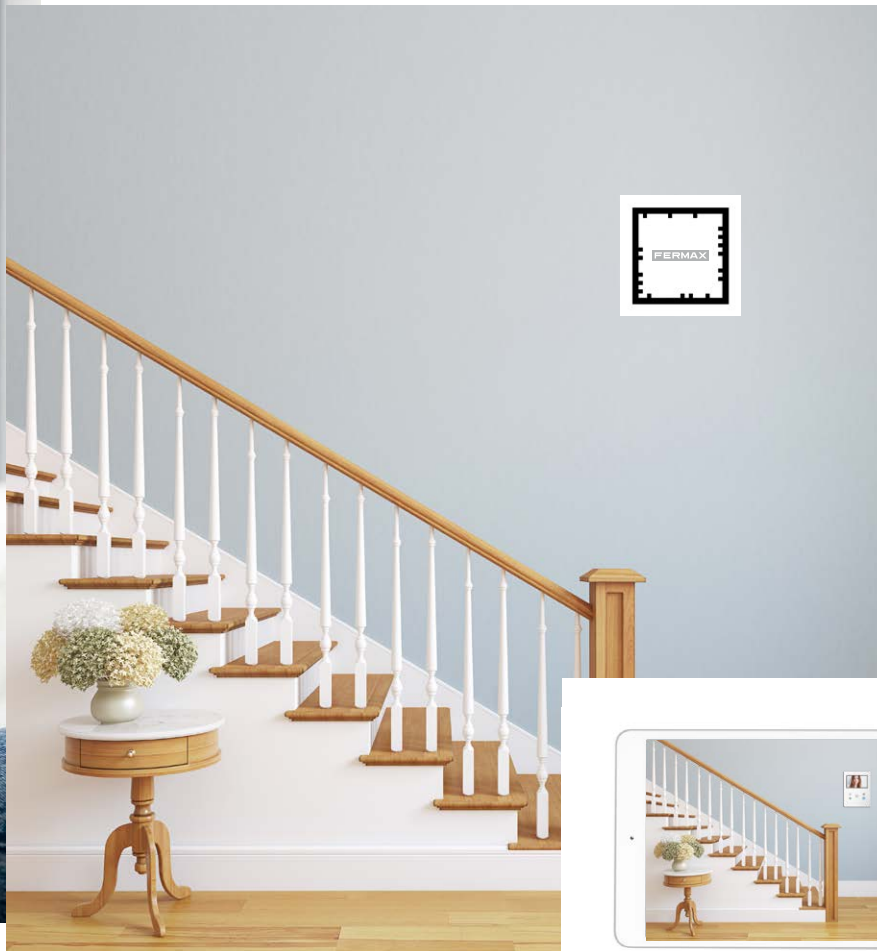


Download "Fermax for Real", our free app for mobile devices, to see with Aumented Reality, how our products look like in your home.

Available in



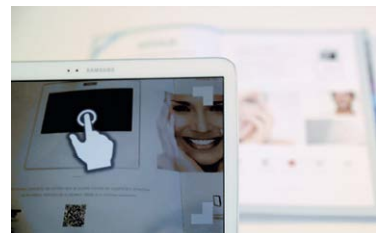
# FERMAX



*The most comprehensive information*



*Integrate a virtual image in a real image*



*Brighten the catalogue*

The most comprehensive information in a single application: the most outstanding products are presented in 3D, along with their commercial and technical information, options and images. Allows 360° viewing and real interaction with the product.

Integrate a virtual image in a real image: view the product in actual size. You can see how it looks in your home or on the street and use it as if it were actually installed. Additionally, you can take a picture of the final result to attach to your quote, save it or share it.

Brighten the catalogue: find the code AR in the catalogue pages and access extra information on each product. Interact with our products as though they were real.

# BASIC GUIDE TO FERMAX SOLUTIONS



## AUDIO AND VIDEO DOOR ENTRY



VIDEO DOOR ENTRY  
Integrated Solutions

In 1963, we created the first audio door entry system in Spain, ever since Fermax has been the market leader for intercommunication products in buildings. Our stylish innovations and technology have set the tempo for the sector.

### 1. OUTDOOR PANELS

With precise styling right up to the last detail, our products are robust and are able to resist the outdoors conditions for decades without wearing down or not functioning.

SKYLINE	CITYLINE	MARINE	URBANLINE	HI-LINE
<i>Absolute versatility Modular composition</i>	<i>Monoblock design Continuous profile</i>	<i>Antivandal. Unalterable 2,5mm stainless steel</i>	<b>NEW</b> <i>Capacitive touchscreen</i>	<b>NEW</b> <i>Interactive touchscreen IP</i>

### 2. MONITORS AND TELEPHONES

With diverse styles, our audio and video door entry terminals offer different functionalities: from having a conversation and opening the door to the possibility of becoming the technology masterpiece of the home integrating all our services.

VEO / VEO-XS	SMILE / SMILE TOUCH	VIVO / VIVO PLUS
<b>NEW</b> <i>VEO Just essential Simpler and more functional Comfort and ease</i> <i>VEO-XS Hands-free communication</i>	<i>Advanced management and high performance. Intuitive use</i> <i>Models: 7" and 3,5" (white and colours). With tactile screen: Smile Touch 7" and Smile Touch 7" Lynx</i>	<b>NEW</b> <i>LYNX IP technology Capacitive touchscreen. Models: VIVO (7") / VIVO PLUS (10") Colours: white, black, silver</i>
ILOFT / ILOFT PURE	LOFT	CITYMAX
<i>Minimalist aesthetic. Extra slim Hands-free Communication Colour range: white, black, silver and gold Telephone version</i>	<i>A classic of contemporary design and high quality Telephone version: BASIC / EXTRA</i>	<i>The economic response without sacrificing quality Telephone models: BASIC / UNIVERSAL / PALACE</i>



Fermax integrates all the communication and security technologies for the building. In this way, as the single interlocutor, Fermax can define a project with a comprehensive vision, making possible a common infrastructure in the installation.

### 3. SYSTEMS - TECHNOLOGIES

#### DUOX - 2 NON POLARISED WIRES

It is the only full digital system in 2 non polarised wires, which is a technological advantage versus other systems. The installation is faster and there is no possibility of errors. The system allows all type of possible connections: star, cascade, distribution...It does not require distributors neither switchers. The installation can be done by using just a door entry panel, a power supply, a line terminator and the indoor terminals for the residence.

For advanced installation, DUOX disposes of signal regenerators that offers a maximum capacity to use this technology in any type of installations, no matter how complex it is. DUOX is designed to be installed in new developments as well as refurbishment.

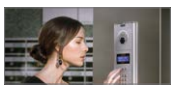
#### LYNX

LYNX is the most advanced TCP/IP system. A virtually unlimited number of monitors can be managed through only one LYNX installation.

Unlimited distances point to point in the installation.  
Unlimited conversation and data transmission channels.

#### OTHER SYSTEMS: 4+N, VDS, MDS

Fermax offers conventional audio and video door entry systems (4+N, VDS and MDS), recommended for those installations with diverse requirements. These conventional systems cover all the needs of the market.



## ACCESS CONTROL SYSTEMS



ACCESS CONTROL

Integrated Solutions

Access control systems control any door, allowing to pass only authorised people. They can be integrated into door entry panels or installed separately.

#### KEYPAD

#### PROXIMITY

#### FINGERPRINT

#### RADIOFREQUENCY

#### MIXED



*PIN code opening*



*Proximity Cards opening*



*Proximity Cards opening*






*Remote control opening*



*Combination of various systems*

Combination of various systems

CATEGORY	 Access control <b>Stand-alone</b>	 Access control <b>Distributed</b>	 Access control <b>Centralised</b>	
	Simple and effective control of a single access	Accesses managed in group and with independent operation	Advanced management of several accesses	
SYSTEMS	<b>Stand-alone</b>	<b>AxesKey</b>	<b>ACPlus</b>	<b>IP Axes</b>
USERS	1.000	5.000	2.046	15.000
DOORS	1	UNLIMITED	2.048	840

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**NEW PRODUCTS**

Check availability.





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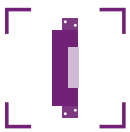
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# Way kits



Technology

⊕ 2 wires non polarised

Plug&Play

## Do it your way

Fermax presents the WAY kits: a range of video door entry system kits for homes and offices. A range of kits available for all type of users, because of its simple operation (intuitive management with graphic icons), easy use and reduced cost. Because today it's no longer a luxury to have a video door entry system at home, WAY IS THE WAY.

**For us, for you, for all. Do it your Way!**

**FERMAX**



1 residence

2 residences



WAY VIDEO  
DOOR ENTRY  
KITS FOR 1 & 2  
RESIDENCES



WAY VIDEO  
DOOR ENTRY KIT  
WITH PROXIMITY  
READER



## Way monitor

WITH TOUCHSCREEN  
AND GRAPHIC ICONS

The WAY video door entry monitor is an extraslim terminal with only 18mm width, rounded borders and glass surface on the front surface.

It incorporates a digital 7" TFT colour screen (800x480 pixels) with capacitive and touchscreen technology that allows the management of the various on-screen functions through the use of intuitive graphic icons.



## Residential



1401 1/W 7" WAY KIT

1402 2/W 7" WAY KIT

Designed for homes, the **WAY VIDEO DOOR ENTRY KITS** for 1 and 2 residences include a WAY DOOR ENTRY PANEL of 25mm width made of zamak with a wide angle CCD colour camera.

The outdoor panel incorporates a lighting sensor, a hood to protect the panel from the rain and backlighted cardholders.

Surface installation.

## Commercial



1403 1/W 7" WAY PROX KIT

**Technology on the service of privacy and security.**

For offices, businesses, schools, hospitals, work centres...where there is an area that needs to be controlled and restricted, the **WAY PROX KIT** does it in a very simple way.

The WAY PROX door entry panel includes a proximity reader and allows access without requiring a key. Just by presenting the proximity keyring to the panel, you can open the door. The equipment can register up to **320 different users**.

Made of stainless steel (316), it resists all the most adverse conditions in extreme environments. Hood included.

Surface installation.



# VEO XS

by FERMAX

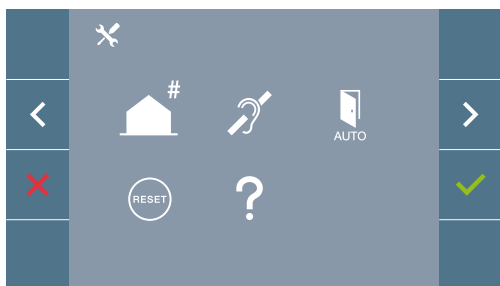


## Is the DIMENSION essential?

In interior design, dimension is important. Very important. Because the dimensions of any element may underscore one impression or another. This is the case with the new VEO-XS, whose reduced dimensions and essential lines will bring a feeling of cleanliness, brightness and a distinct sense of space to any area.

It will fit perfectly into a lobby, a kitchen, a hallway or any corner of an apartment.

VEO-XS isn't just small, it's also extra-slim. You can do away with a handset, as it can be controlled with one finger, making it even easier and more comfortable to use. Extra-small.

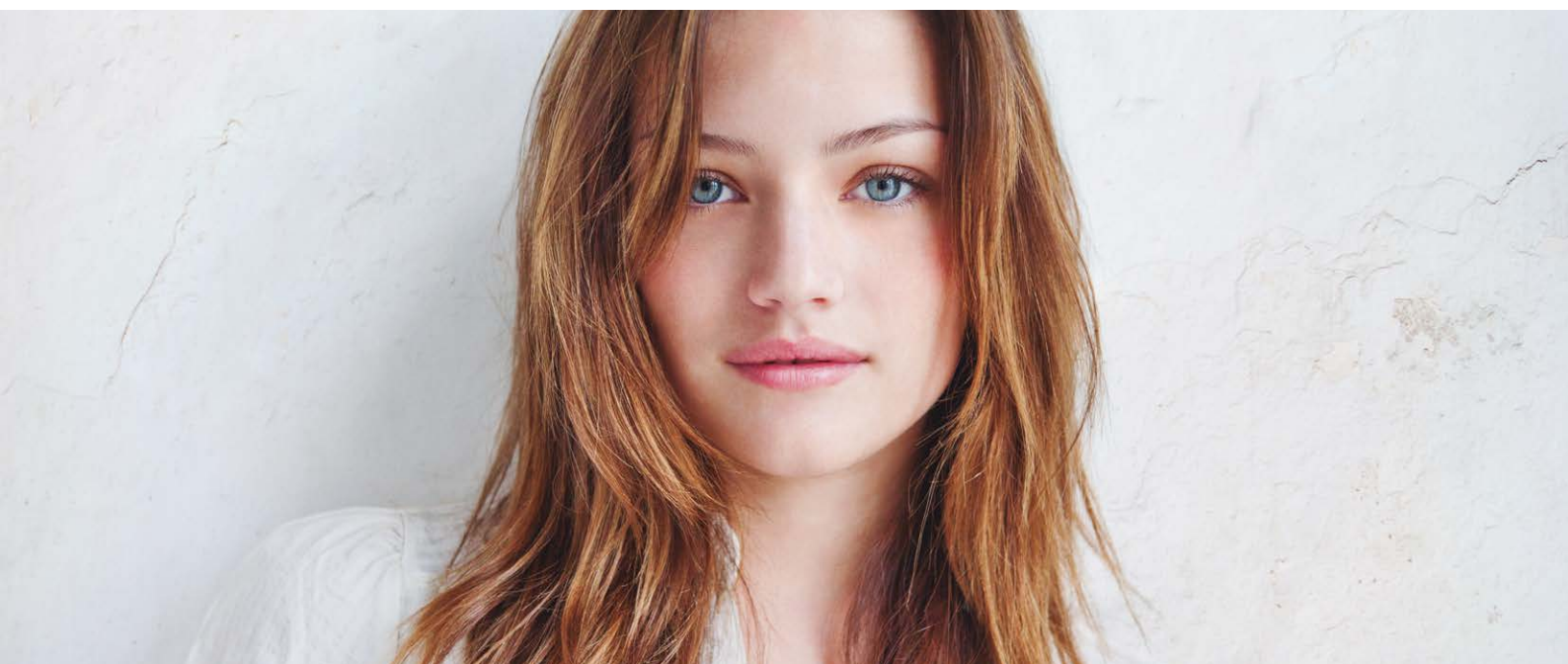


4,3" Screen



Although its size is minimal, this monitor offers the maximum possible number of functions, as it includes all the elements you would expect from a modern video door entry system: image and volume controls, a choice of melodies or a silent mode.

The monitor combines push buttons and an OSD menu to offer the user an intuitive interaction.



**DUOX** by **FERMAX**

The VEO-XS monitor brings another advantage as it incorporates DUOX technology, the full digital solution created by Fermax that allows installation via two non-polarised wires. This factor, coupled with a small size, make the VEO-XS monitor an unbeatable asset for replacement.

#### References

- 9408 DUOX VEO-XS MONITOR
- 9407 VEO-XS MONITOR CONNECTOR
- 9431 1/W DUOX VEO-XS KIT
- 9432 2/W DUOX VEO-XS KIT
- 4912 1/W DUOX VEO-XS MEMOVISION KIT

**VEO**  
by **FERMAX**

# urban FERMAX LINE



The new Fermax Urbanline system combines the sophistication of contemporary design with advanced technology into one harmonious device, bringing a distinctive style and a touch of exclusivity to the modern home.

**References** 7482 MDS VIDEO URBANLINE PANEL  
7481 MDS AUDIO URBANLINE PANEL

## FERMAX



# smile TOUCH

by FERMAX



## It's easy. It's Smile

Touch the screen and enjoy a new, revamped experience. The new Smile Touch monitor, thanks to its multifunctional touchscreen, allows to manage its advanced features in a more intuitive and inclusive way.

Experience the power of Smile with a simple touch of the screen. Easier living, more SMILE at a Touch!

## It's all in your hands

Smile Touch lets you manage all of Smile's advanced features with one finger. This is why we refer to it as a video door entry system with myriad possibilities, including:

### Sound management

So that you can choose between 5 melodies and even associate them with specific callers. You can also adjust the volume, or turn the Do Not Disturb function on or off.

### Second camera

To view the image taken by an external camera via the monitor.

### Additional functions, including lift calling

So that you can activate secondary doors, lights or other features via the monitor and configure a push button to call the lift.

### Panic call

To open a direct, urgent channel to the guard unit.

### References

6575 VDS 7" SMILE TOUCH MONITOR

6555 VDS 7" ABSOLUTE WHITE SMILE MONITOR

6556 VDS 7" SILVER SMILE MONITOR

6557 VDS 7" BLACK SMILE MONITOR



## Perfectly integrated technology

A complete freedom to imagine and plan. To integrate diverse features, knowing that LYNX has broken down all technology barriers. Because this system, based on TCP/IP protocols, lets you manage all communication, security and comfort aspects of a project simultaneously.

This can be done even in the most complex installations. LYNX sets new standards in processing and performance capabilities for video door entry system equipment, enabling a virtually unlimited number of monitors, unlimited distances between points within an installation and unlimited channels for conversation and data transmission.



# VIVO+

For LYNX, FERMAX has created new video door entry monitors with multifunctional touchscreens that become the technological interface of the home. VIVO, the most exclusive monitor, is available with a 7" screen, as well as a new 10" screen version called VIVO PLUS.



### CALL DIVERT TO SMARTPHONES AND TABLETS

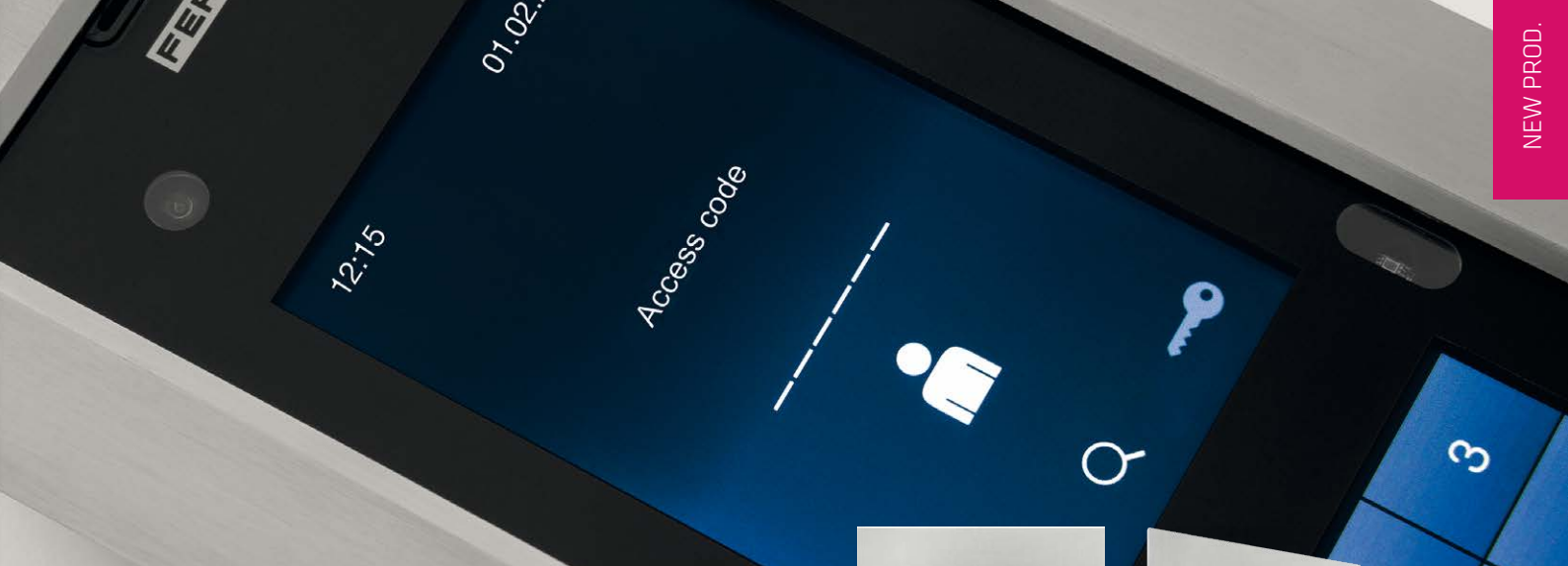
By incorporating a LYNX router in the installation, calls received at the outdoor panel can be diverted to mobile devices, where the user can view the visitor's picture, set up communication with them and, if desired, open the door.

### References

- 9460 VIVO PLUS MONITOR
- 9461 VIVO PLUS BLACK MONITOR
- 9462 VIVO PLUS SILVER MONITOR
- 1606 VIVO DESKTOP SUPPORT
- 1605 VIVO CONNECTOR
- 1609 LYNX ROUTER

LYNXed app available on:





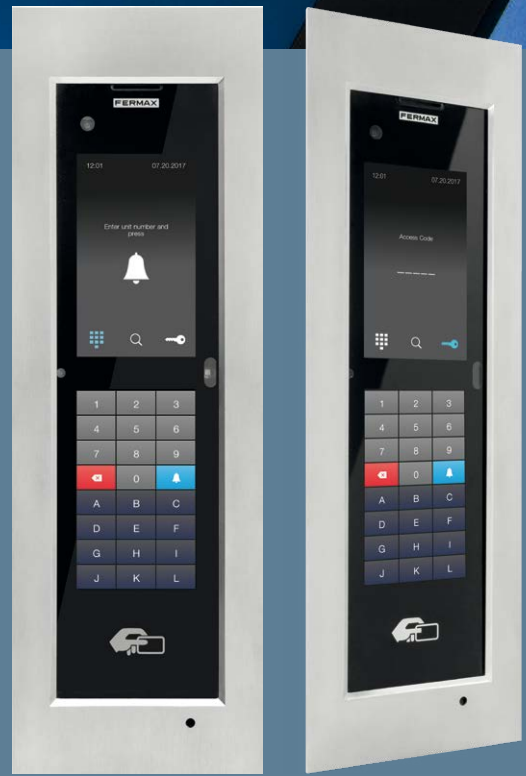
# HI-LINE

IP HIGH RANGE **FERMAX**

The most avant-garde technology, perfect usability and essential design are fused together in Hi-Line, a door entry panel with excellent image quality and sophisticated style, the design of which emphasises the use of glass and includes two touch-sensitive graphic screens: the upper screen offers messages and the lower screen transforms into a keypad. For precise interaction and a high level of communication with the visitors. It incorporates a dual access control system: via keypad, and via proximity card.

**Reference**

7480 HI-LINE LYNX PANEL S8



## smile TOUCH LYNX

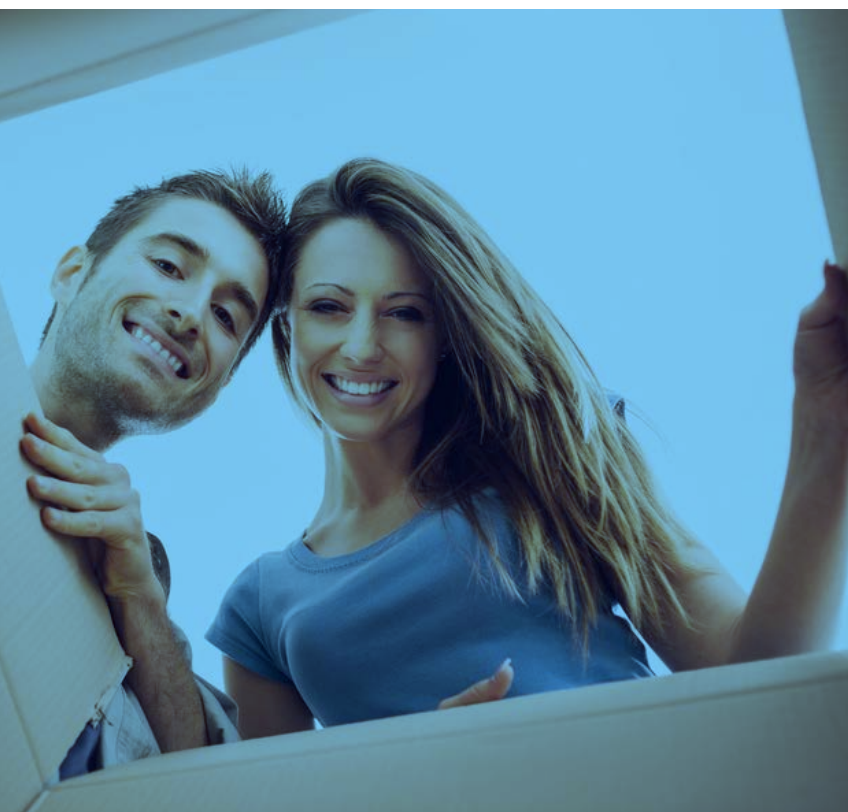
**Press, drag.** The same gestures that we have learned to use with our smartphones now allow you to interact with the SmileTouch monitor, the entertaining, fresh new video door entry system from Fermax, with a 7" screen and now touchscreen with the option of an IP technology version.

**References**

- 1650 SMILE TOUCH LYNX MONITOR
- 1651 SMILE TOUCH LYNX BLACK MONITOR
- 1652 SMILE TOUCH LYNX SILVER MONITOR



All the material required in a single reference



## KITS

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AUDIO	26



# VIDEO KITS

INDIVIDUAL RESIDENCES AND SMEs



## HANDS-FREE KITS

VDS



### 5071 1/W VDS 7" SMILE KIT

- 48505 | 1/W COLOUR VDS CITY panel and S1 kit flush box (ref.8948).  
Panel S1: 130x128 / Kit flush box: 115x114x45.
- 6550 | VDS COLOUR 7" SMILE monitor.
- 6565 | SMILE connector.
- 4810 | Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.

### 5072 2/W VDS 7" SMILE KIT

The same as kit ref.5071 but with 2/W video panel (ref.48515) and two 7" SMILE monitors (ref.6550).

VDS



### 5061 1/W VDS 3,5" SMILE KIT

- 48505 | 1/W COLOUR VDS CITY panel and S1 kit flush box (ref.8948).  
Panel S1: 130x128 / Kit flush box: 115x114x45.
- 6545 | VDS COLOUR 3,5" SMILE monitor.
- 6565 | SMILE connector.
- 4810 | Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.

### 5062 2/W VDS 3,5" SMILE KIT

The same as kit ref.5061 but with 2/W video panel (ref.48515) and two 3,5" SMILE monitors (ref.6545).

2 WIRES



### 1401 1/W 7" WAY KIT

- 1416 | 1/W WAY panel with hood. Panel: 95x155x39.
- 1412 | 7" TFT colour Way monitor.
- 1410 | Power supply.

### 1402 2/W 7" WAY KIT

The same as kit ref.1401 but with 2/W panel (ref.1417) and two 7" monitors (1 ref.1412 for 1<sup>st</sup> home and 1 ref.1413 for 2<sup>nd</sup> home).

NEW

2 WIRES



### 1403 1/W 7" WAY PROX KIT with proximity reader

- 1411 | 1/W WAY PROX panel with hood.  
Panel: 93x182x25.
- 1412 | 7" TFT Colour Way monitor.
- 1410 | Power supply.
- 4515 | EM Proximity keyring (7 units).

NEW

DUOX



### 9431 1/W DUOX VEO-XS KIT

- 70708 | 1/W COLOUR DUOX CITY panel.  
Panel S1: 130x128
- 8948 | Flush box S1: 115x114x45.
- 9408 | VEO-XS DUOX Colour monitor.
- 9407 | VEO-XS DUOX monitor connector
- 4810 | Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 | DUOX filter.

### 9432 2/W DUOX VEO-XS KIT

The same as kit ref.9431 but with 2/W panel (ref.70008), 2 VEO-XS monitors (ref.9408) and 1 line adaptor (ref.3255).

VDS



### 4950 1/W VDS iLOFT VIDEO KIT

- 48505 | 1/W COLOUR VDS CITY panel with kit flush box S1(ref.8948).  
Panel S1: 130x128. Kit flush box: S1 115x114x45.
- 5620 | iLOFT VDS COLOUR monitor.
- 5630 | iLOFT flush box. 158x108x45.
- 4810 | Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.

### 5021 1/W VDS iLOFT PURE SURFACE VIDEO KIT

The same as kit ref.4950 without flush box and with surface iLoft Pure monitor (ref.5606).



## ★ STAR KITS

### VEO KITS



#### DUOX

#### 9421 1/W DUOX VEO KIT

- 70708 1/W Colour DUOX CITY panel. Panel S1: 130x128.
- 8948 flush box S1: 115x114x45.
- 9405 Colour 4,3" DUOX VEO monitor.
- 9406 DUOX VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A.
- 3244 DUOX filter.
- 3255 DUOX line adaptor.

#### 9422 2/W DUOX VEO KIT

The same as kit ref.9421 but with 2/W video panel (ref.70008), 2 VEO monitors (ref.9405) and 2 line adaptors (ref.3255).

#### VDS

#### 9411 1/W VDS VEO KIT

- 48505 1/W COLOUR VDS CITY panel and flush box (ref.8948). Panel S1: 130x128 / Kit box S1: 115x114x45.
- 9401 Colour 4,3" VDS VEO monitor.
- 9402 VDS VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.

#### 9412 2/W VDS VEO KIT

The same as kit ref.9411 but with 2/W video panel (ref.48515) and 2 VEO monitors (ref.9401).

### CITY KITS



#### COLOUR VDS

#### 4961 1/W VDS CITY KIT

- 48505 1/W COLOUR VDS CITY panel and flush box (ref.8948). Panel S1: 130x128 / Kit box S1: 115x114x45.
- 3305 VDS COLOUR LOFT monitor.
- 3314 VDS LOFT monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A

#### 49627 2/W VDS CITY KIT

The same as kit ref.4961 but with 2/W video panel (ref.48515) and 2 LOFT monitors (ref.3305) and 2 connectors (ref. 3314).

#### B/W VDS

#### 4960 1/W B/W VDS CITY KIT

- 48505 1/W COLOUR VDS CITY panel and flush box (ref.8948). Panel S1: 130x128 / Kit box S1: 115x114x45.
- 3311 VDS B/W LOFT monitor.
- 3314 VDS LOFT monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A

### MARINE KITS



KIT: ref.5489

#### DUOX

NEW

#### 5489 1/W DUOX VEO MARINE KIT

- 54338 1/W COLOUR DUOX 1 CP101 MARINE panel and flush box. (Flush box included on kit: ref.4641). Panel ST1: 150x180. Flush box ST1: 130x160x55.
- 9405 DUOX Colour 4,3" VEO monitor.
- 9406 DUOX VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.
- 3255 DUOX line adaptor.
- 2008 8-Call extension module.



KIT: ref.5432

#### VDS

#### 5432 1/W VDS LOFT MARINE KIT

- 54337 1/W COLOUR VDS 1 CP101 MARINE panel and flush box. (Flush box included on kit: ref.4641). Panel ST1: 150x180. Flush box ST1: 130x160x55.
- 3305 VDS COLOUR LOFT monitor.
- 3314 VDS VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.



# VIDEO KITS

INDIVIDUAL RESIDENCES AND SMEs



IP

LUXURY KITS - IP TECHNOLOGY



**NEW**

## LYNX (IP)

### 1637 1/W SMILE LYNX KIT

- 1625. 1/W COLOUR LYNX CITY panel. Panel S1: 130x128.
- 8948. Kit flush box S1: 115x114x45.
- 1650. SMILE TOUCH LYNX monitor.
- 1655. SMILE TOUCH LYNX connector.
- 1617. Switch (4 PoE + 4).
- 4813. Power supply 12Vdc/2A. DIN6.

Note: Door lock release recommended: ref.29588 or ref.30708

### 1638 1/W SMILE LYNX KIT WITH CALL DIVERT

**With call divert to smartphone or tablet!** The same as kit ref.1637 but with LYNX router (ref.1609).



LYNXed app  
Available on:



## ACCESS CONTROL KITS

### ONE-TO-ONE KITS



KIT: ref.7389



KIT: ref.4889



## DUOX

**NEW**

### 4908 1/W DUOX ONE-TO-ONE VEO KIT

- 7389 1/W COLOUR DUOX OneToOne CITY panel and kit flush box S4 (ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45. Colour 4,3" DUOX VEO monitor with induction loop.
- 9406 DUOX VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.
- 3255 DUOX line adaptor



## VDS

### 4889 1/W VDS ONE-TO-ONE LOFT KIT

- 7357 1/W COLOUR VDS OneToOne CITY panel and kit flush box S4 (ref.8949). Panel S4: 130x199. Flush box. S4: 115x185x45. Colour 4,3" VDS VEO monitor with induction loop.
- 3314 VDS LOFT monitor connector.
- 2438 Light or buzzer activator.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.



### MEMOVISION KITS



KIT: ref.4907



KIT: ref.4984



## DUOX

**NEW**

### 4907 1/W DUOX VEO MEMOVISION KIT

- 7388 1/W COLOUR DUOX MEMOVISION panel. S5:130x246.
- 8855 Flush box S5: 115x233x45.
- 9405 Colour 4,3" DUOX VEO monitor.
- 9406 DUOX VEO monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.
- 3255 DUOX line adaptor.

## VDS

### 4984 1/W VDS LOFT MEMOVISION KIT

- 7342 1/W COLOUR VDS MEMOVISION panel. S5:130x246.
- 8855 Flush box S5: 115x233x45.
- 3305 COLOUR VDS LOFT monitor.
- 3314 VDS LOFT monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.

**EXTENSIONS:** The VDS VIDEO KITS with 1/W or 2/W City panel can be extended with a 2<sup>nd</sup> audio access (ref.48455 1/W or 48465 2/W) or a 2<sup>nd</sup> video access (ref.48505 1/W+ref.2450 or ref.48515 2/W+ref.2450). The video DUOX kits can be extended with a 2<sup>nd</sup> video access (ref.70708 or ref.70008 2/W). The video kits admit a 2<sup>nd</sup> monitor or 2 telephones without extra power supply. Door lock release recommended: ref.67501 990N-P22 (12Vac/dc).



# VIDEO KITS

INDIVIDUAL RESIDENCES AND SMEs



KITS WITH ACCESS CONTROL

## MEMOVISION KIT



### DUOX

NEW

#### 4912 1/W DUOX VEO XS MEMOVISION KIT

- 7388 1/W COLOUR DUOX MEMOVISION panel. S5:130x246.
- 8855 Flush box S5: 115x233x45.
- 9408 DUOX 4,3" VEO-XS monitor.
- 9407 DUOX VEO-XS monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 3244 DUOX filter.

## BIOVISION KIT



### VDS

#### 4926 1/W LOFT VDS BIOVISION KIT

- 4910 1/W COLOUR VDS BIOVISION CITY panel and flush box (ref.8855).  
Panel S5:130x246  
Kit box S5: 115x233x45.
- 3305 VDS COLOUR LOFT monitor.
- 3314 VDS LOFT monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 23361 EM proximity card.
- 4515 EM proximity keyring.

## PRIVATE KIT



### VDS

#### 4887 1/W LOFT VDS PRIVATE KIT

- 4899 1/W COLOUR VDS PRIVATE CITY panel and kit flush box S4 (ref.8949).  
Panel S4:130x199  
Kit box S4: 115x185x45.
- 3305 VDS COLOUR LOFT monitor.
- 3314 VDS LOFT monitor connector.
- 4810 Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
- 23361 EM proximity card (5 units).
- 4515 EM proximity keyring.



**BUILDING KITS UP TO 24 APARTMENTS**  
INSTALLATION: 2 WIRES

Kits are supplied with all the necessary material for a complete video installation (except monitors): video door entry panel with COLOUR camera, flush box, power supply 18Vdc-1,5A (ref.4812) for the system and power supply 12Vac (ref.4802) for the door lock release. 2 line adaptors (ref.3255) are required for each additional riser.



**49638 3/W DUOX VIDEO KIT**



- 70738 4CP103 DUOX CITY panel. S4: 130x199.
- 8949 Kit flush box S4: 115x185x45.
- 2008 8-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

3 apartments

**49648 4/W DUOX VIDEO KIT**



- 70748 4CP104 DUOX CITY panel. S4: 130x199.
- 8949 Kit flush box S4: 115x185x45.
- 2008 8-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

4 apartments

**49658 5/W DUOX VIDEO KIT**



- 70828 5CP105 DUOX CITY panel. S5: 130x246.
- 8855 Kit flush box S5: 115x233x45.
- 2008 8-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

5 apartments

**49668 6/W DUOX VIDEO KIT**



- 70038 4CP203 DUOX CITY panel. S4: 130x199.
- 8949 Kit flush box S4: 115x185x45.
- 2008 8-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

6 apartments

**49688 8/W DUOX VIDEO KIT**



- 70048 4CP204 DUOX CITY panel. S4: 130x199.
- 8949 Kit flush box S4: 115x185x45.
- 2008 8-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

8 apartments

**49718 10/W DUOX VIDEO KIT**



- 70128 5CP205 DUOX CITY panel. S5: 130x246.
- 8855 Kit flush box S5: 115x233x45.
- 2441 16-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

10 apartments

**49728 12/W DUOX VIDEO KIT**



- 70138 5CP206 DUOX CITY panel. S5: 130x246.
- 8855 Kit flush box S5: 115x233x45.
- 2441 16-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

12 apartments

**49738 14/W DUOX VIDEO KIT**



- 70228 CITY DUOX 6CP207 panel. S6: 130x294.
- 8856 Kit flush box S6: 115x280x45.
- 2441 16-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

14 apartments

**49748 16/W DUOX VIDEO KIT**



- 70238 6CP208 DUOX CITY panel. S6: 130x294.
- 8856 Kit flush box S6: 115x280x45.
- 2441 16-call extension module.
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

16 apartments

**49758 18/W DUOX VIDEO KIT**



- 70328 7CP209 DUOX CITY panel. S7: 130x341.
- 8857 Kit flush box S7: 115x328x45.
- 2441 16-call extension module (2 units).
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

18 apartments



**49768 20/W DUOX VIDEO KIT**



- 70338 7CP210 DUOX CITY panel. S7: 130x341.
- 8857 Kit flush box S7: 115x328x45.
- 2441 16-call extension module (2 units).
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

20 apartments

**49778 22/W DUOX VIDEO KIT**



- 71148 8CP211 DUOX CITY panel. S8: 130x389.
- 8858 Kit flush box S8: 115x375x45.
- 2441 16-call extension module (2 units).
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

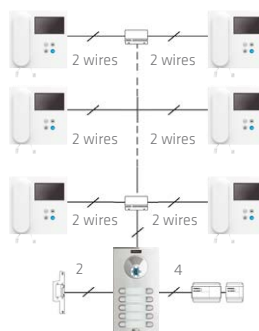
22 apartments

**49788 24/W DUOX VIDEO KIT**



- 71158 CITY DUOX 8CP212 panel. S8: 130x389.
- 8858 Kit flush box S8: 115x375x45.
- 2441 16-call extension module (2 units).
- 3255 Line adaptor (2 units).
- 3244 DUOX filter.
- 4802 Power supply 12Vac/1A. DIN4.
- 4812 Power supply 18Vdc/1,5A.

24 apartments



**NOTE:** The kits don't include monitors. Required monitors must be requested separately to complete the installation depending on the number of apartments.



**BUILDING KITS**

Recommended for buildings of more than 25 homes. The KITS include all the material needed for a full video door entry installation, except monitors, connectors and video distributors (if required).

There are two BUILDING VIDEO KIT models:

- DIRECT VIDEO KIT. Includes DIRECT panel with keypad for house calls. The call codes assigned to each door can be indicated in the built-in directory panel. The keypad has a built-in access control function.

The electric lock is triggered when a code up to 6 digits is entered. 1 common code per panel.

- DIGITAL VIDEO KIT. Includes DIGITAL panel with keypad and electronic directory. Door codes and residents' names are shown on the e-agenda type DISPLAY. Keypad with built-in access control function.

Allows for the programming of up to 350 different users/codes (VDS) or up to 10.000 users (DUOX).

**DUOX BUILDING KITS** INSTALLATION: 2 wires

**4956 DUOX DIRECT KIT**



- 7363 DUOX DIRECT COLOUR VIDEO CITY panel. Panel S5: 130x246.
- 7309 DIRECTORY CITY panel. S5: 130x246.
- 8855 Flush box S5 (2 units): 115x233x45.
- 8829 Joining bolts set.
- 3244 DUOX filter.
- 3255 Line adaptor (2 units).
- 4802 Power supply 12Vac/1A. DIN 4.
- 4830 Power supply 18Vdc/3,5A.

**4957 DUOX DIGITAL KIT**



- 7387 DUOX EXTRA DIGITAL COLOUR VIDEO CITY panel. Panel S7: 130x341.
- 8857 Flush box S7: 115x328x45.
- 3244 DUOX filter.
- 3255 Line adaptor (2 units).
- 4802 Power supply 12Vac/1A. DIN 4.
- 4830 Power supply 18Vdc/3,5A.

**BUILDING KITS** INSTALLATION: UTP CAT5 / 5 WIRES / 3+COAX

Kit includes: coded VDS outdoor panel with COLOUR camera, flush box, power supply for up to 40 homes in video or 80 in audio (ref.4830) and a 12Vac power supply (ref.4800) to drive the installation's electric lock. Another power supply (ref.4830) must be added for every additional 40 monitors or 80 telephones.

**4979 VDS DIRECT KIT**

Same as kit ref.4956 but with VDS panel (ref.7305) and power supply ref.4830 and ref.4800.

**4915 VDS DIGITAL KIT**

Same as kit ref.4957 but with VDS panel (ref.7299) and power supply ref.4830 and ref.4800.



# AUDIO KITS

INDIVIDUAL RESIDENCES AND SME'S

4+N

ANALOGUE TECHNOLOGY

5 wires



## 4860 1/W 4+N CITY AUDIO KIT

### Includes

- 4845 1/W 4+N CITY panel and flush box (ref.8948).  
Panel S1: 130x128.  
Kit flush box: 115x114x45.
- 3393 4+N LOFT BASIC telephone.
- 4802 Power supply 12Vac/1A-DIN4.

### 2<sup>nd</sup> Audio access

- 4845 1/W audio panel and flush box.
- 8819 Chalet switcher.

### Accessories

- 30711 Door lock 450N-5 (12Vac).
- 8948 Kit flush box S1. 130x128X33.
- 7061 Surface box S1. 130x128X33.
- 9191 Decorative frame S1: 211x210.
- 8400 Hood S1: 135x130.
- 3380 Decorative telephone frame. 200x240.

**Extensions (without extra power supply)**  
3 LOFT telephones (ref.3393). For more than 4 telephones, 1 power supply ref.4812 and 1 call multiplier (ref.2340) is required.

## 4862 2/W 4+N CITY AUDIO KIT

Same as kit ref.4860 but with 2 LOFT BASIC 4+N telephones (ref.3393) and 2/W 4+N CITY KIT panel (ref.4846).



DUOX TECHNOLOGY

2 wires  
DUOX



## 4920 1/W DUOX CITY AUDIO KIT

### Includes

- 70704 1/W DUOX CITY panel. S1: 130x128.
- 8948 Kit flush box S1: 115x114x45.
- 3421 DUOX LOFT telephone.
- 3244 DUOX filter.
- 4810 Power supply. 18Vdc/1,5A-12Vac/1,5A. DIN10.

### 2<sup>nd</sup> Audio access

- 70704 1/W audio panel.
- 8948 Flush box.

### Accessories

- 67501 Door lock 990N-4P22 (12Vac/dc).
- 30711 Door lock 540N-5 MAX (12Vac).
- 8851 Kit flush box S1.
- 7061 Surface box S1. 130x128X33.
- 9191 Decorative fr. S1: 211x210.
- 8400 Hood S1: 135x130.
- 3380 Telephone decorative frame: 200x240.

**Extensions**  
2 DUOX LOFT telephones (ref.3421).

## 4921 2/W DUOX CITY AUDIO KIT

Same as kit ref.4920 but with 2 DUOX LOFT PLUS telephones (ref.3421) and 2/W CITY panel (ref.70004).



CLASSIC KITS



5 wires

## 6201 1/W CITYMAX AUDIO KIT

### Includes

- 8300 1/W CITY CLASSIC panel and flush box.  
Panel S1: 130x128  
Kit flush box S1: 115x114x45.
- 80447 CITYMAX BASIC telephone.
- 4802 Power supply. 12Vac/1A-DIN4.

### 2<sup>nd</sup> Audio access

- 8300 1/W audio panel.
- 8819 Audio automatic switcher.

### Accessories

- 67501 Door lock 990N-4P22 (12Vac/dc).
- 30711 Door lock 540N-5 MAX (12Vac).
- 8851 Kit flush box S1.
- 7061 Surface box S1.130x128X33.
- 9191 Decorative fr. S1: 211x210.
- 8400 Hood S1: 135x130.
- 3380 Telephone decorative frame: 200x240.

## 6202 2/W CITYMAX AUDIO KIT

The same as in ref.6201 but with 2/W panel (ref.8301) and 2 telephones.

# AUDIO KITS

INDIVIDUAL RESIDENCES AND SME'S



KITS



## LUXURY KIT. HANDS-FREE



## STAINLESS STEEL

VDS

**4878 1/W iLOFT AUDIO KIT**

48455	1/W VDS AUDIO CITY panel. Panel S1: 130X128.
8948	Kit flush box S1: 115x114x45.
5601	VDS iLOFT telephone.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.

VDS

**5431 1/W VDS MARINE AUDIO KIT**

54333	1/W VDS AUDIO MARINE panel and flush box. (Flush box included ref.4641) Panel ST1: 150x180. Flush box ST1: 130x160x55.
3391	VDS LOFT EXTRA telephone.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN10.



## INTEGRATED ACCESS CONTROL

VDS

**4982 1/W VDS MEMOPHONE KIT**

4842	1/W VDS MEMOPHONE panel. S5: 130x246.
8855	Flush box S5. 115x233x45.
3391	VDS LOFT EXTRA telephone.
4810	Power supply 18Vdc/1,5A-12Vac/1,5A. DIN 10.

VDS

**4925 1/W VDS BIOPHONE KIT**

4911	1/W VDS BIOPHONE panel and kit flush box (ref.8855). Panel S5: 130x246 / Flush box S5: 115x233x45.
3391	VDS LOFT EXTRA telephone.
4810	Power Supply 18Vdc/1,5A-12Vac/1,5A. DIN10.
23361	Proximity card.
4515	Proximity Keyring.

EXTENSIONS: AUDIO VDS KITS admit 3 additional telephones without extra power supply.



# AUDIO KITS

BUILDINGS

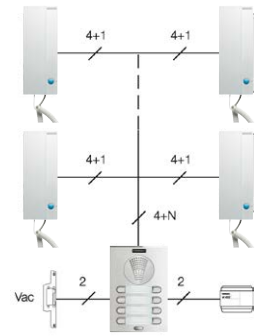


## BUILDING KITS UP TO 24 APARTMENTS

INSTALLATION: 4+N (1 WIRE PER APARTMENT)

### KIT EXTENSION AND ACCESSORIES:

- 2<sup>nd</sup> Access: Requires panel and flush box + audio switcher (ref.8811) + voltage distributor (ref.88231). Only on 2/W (ref.48620), 2 additional wires (ref.2540) are required.
- At apartment: up to 3 telephones (ref.3393) without additional power supply.
- Recommended door lock: 450N-S (ref.30711).



4+N basic installation

### 4860 1/W CITY AUDIO KIT



4845 1AP101 CITY kit panel and flush box. Panel S1: 130x128.  
Flush box (ref.8948) S1: 115x114x45.  
3393 LOFT 4+N telephone.  
4802 Power supply 12Vac/1A. DIN4.  
(4+1)

### 4862 2/W CITY AUDIO KIT



4846 1AP201 CITY kit panel and flush box. Panel S1: 130x128.  
Flush box (ref.8948) S1: 115x114x45.  
3393 LOFT 4+N telephone (2 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+2)

### 4863 3/W CITY AUDIO KIT



4847 4AP103 CITY kit panel and flush box. Panel S4: 130x199.  
Flush box (ref.8949) S4: 115x185x45.  
3393 LOFT 4+N telephone (3 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+3)

### 4864 4/W CITY AUDIO KIT



4848 4AP104 CITY kit panel and flush box. Panel S4: 130x199.  
Flush box (ref.8949) S4: 115x185x45.  
3393 LOFT 4+N telephone (4 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+4)

### 4866 6/W CITY AUDIO KIT



4849 4AP203 CITY kit panel and flush box. Panel S4: 130x199.  
flush box (ref.8949) S4: 115x185x45.  
3393 LOFT 4+N telephone (6 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+6)

### 4868 8/W CITY AUDIO KIT



4852 4AP204 CITY kit panel and flush box. Panel S4: 130x199.  
Flush box (ref.8949) S4: 115x185x45.  
3393 LOFT 4+N telephone (8 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+8)

### 4865 10/W CITY AUDIO KIT



4853 5AP205 CITY kit panel and flush box. Panel S5: 130x246.  
Flush box (ref.8855) S5: 115x233x45.  
3393 LOFT 4+N telephone (10 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+10)

### 4867 12/W CITY AUDIO KIT



4854 5AP206 CITY kit panel and flush box. Panel S5: 130x246.  
Flush box (ref.8855) S5: 115x233x45.  
3393 LOFT 4+N telephone (12 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+12)

### 4869 14/W CITY AUDIO KIT



4855 6AP207 CITY kit panel and flush box. Panel S6: 130x294.  
Flush box (ref.8856) S6: 115x280x45.  
3393 LOFT 4+N telephone (14 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+14)

### 4871 16/W CITY AUDIO KIT



4856 6AP208 CITY kit panel and flush box. Panel S6: 130x294.  
Flush box (ref.8856) S6: 115x280x45.  
3393 LOFT 4+N telephone (16 units).  
4802 Power supply 12Vac/1A. DIN4.  
(4+16)

# AUDIO KITS

BUILDINGS

## 4874 18/W CITY AUDIO KIT



- 4857 7AP209 CITY kit panel and flush box.  
Panel S7: 130x341.  
Flush box (ref.8857) S7: 115x328x45.
  - 3393 LOFT 4+N telephone (18 units).
  - 4802 Power supply 12Vac/1A. DIN4.
- (4+18)

## 4875 20/W CITY AUDIO KIT



- 4858 7AP210 CITY kit panel and flush box.  
Panel S7: 130x341.  
Flush box (ref.8857) S7: 115x328x45.
  - 3393 LOFT 4+N telephone (20 units).
  - 4802 Power supply 12Vac/1A. DIN4.
- (4+20)

## 4876 22/W CITY AUDIO KIT



- 4843 8AP211 CITY kit panel and flush box.  
Panel S8: 130x389.  
Flush box (ref.8858) S8: 115x375x45.
  - 3393 LOFT 4+N telephone (22 units).
  - 4802 Power supply 12Vac/1A. DIN4.
- (4+22)

## 4877 24/W CITY AUDIO KIT



- 4844 8AP212 CITY kit panel and flush box.  
Panel S8: 130x389.  
Flush box (ref.8858) S8: 115x375x45.
  - 3393 LOFT 4+N telephone (24 units).
  - 4802 Power supply 12Vac/1A. DIN4.
- (4+24)



## VDS BUILDING KITS

INSTALLATION: UTP CAT5 / 5 WIRES / 3+COAX



VOX 199 KITS are VDS audio door entry equipment for buildings up to 199 apartments. Includes: panel (or panels) with its flush box, 1 power supply 18Vdc (ref.4830) up to 80 apartments, and a power supply 12Vac (ref.4800) for the alternating current electric lock release installation.

To complete the installation, request the necessary telephones (ref.3390, ref.3391 or ref.5601). An additional power supply is needed for every 80 additional telephones (ref.4830).

For the rest of the installation, see [VDS system](#).

## 4980 199 VOX KIT



- 7308 VDS DIRECT CITY S5 panel.
- 7309 DIRECTORY CITY S5 panel.
- 8855 Flush box S5 (2 units)  
115x233x45.
- 8829 Joining bolts set.
- 4830 Power supply 18Vdc/3,5A. DIN 6
- 4802 Power supply 12Vac/1A. DIN4.

VDS

## 4916 199 DIGITAL VOX KIT



- 7303 VDS DIGITAL CITY panel.  
Panel S7: 130x341.
- 8857 Flush box S7: 115x328x45.
- 4830 Power supply 18Vdc/3,5A. DIN 6.
- 4802 Power supply 12Vac/1A. DIN4.

VDS



# AUDIO KITS

## BUILDINGS























### CITYMAX KITS UP TO 24 APARTMENTS

INSTALATION: 4+N (1 WIRE PER APARTMENT)

ANALOGUE

#### KIT EXTENSIONS AND ACCESSORIES:

- 2<sup>nd</sup> Access: Requires panel and flush box + audio switcher (ref.8811) + voltage distributor
- At apartment: Up to 3 telephones (ref.80447) without additional power supply.
- Recommended door lock: 450N-S (ref.30711).

<p><b>6201 1/W CITYMAX AUDIO KIT</b></p>   <p>8300   1/W CITY CLASSIC panel and flush box (flush box included ref.8948). Panel S1: 130x128. Kit flush box S1: 115x114x45.</p> <p>80447   CITYMAX BASIC telephone.</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+1</p>	<p><b>6202 2/W CITYMAX AUDIO KIT</b></p>   <p>8301   2/W CITY CLASSIC panel and flush box (flush box included ref.8948). Panel S1: 130x128. Kit flush box S1: 115x114x45.</p> <p>80447   CITYMAX BASIC telephone (2 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+2</p>
<p><b>6203 3/W CITYMAX AUDIO KIT</b></p>   <p>8302   3/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45.</p> <p>80447   CITYMAX BASIC telephone (3 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+3</p>	<p><b>6204 4/W CITYMAX AUDIO KIT</b></p>   <p>8303   4/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45.</p> <p>80447   CITYMAX BASIC telephone (4 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+4</p>
<p><b>6206 6/W CITYMAX AUDIO KIT</b></p>   <p>8304   6/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45.</p> <p>80447   CITYMAX BASIC telephone (6 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+6</p>	<p><b>6208 8/W CITYMAX AUDIO KIT</b></p>   <p>8305   8/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45.</p> <p>80447   CITYMAX BASIC telephone (8 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+8</p>
<p><b>6210 10/W CITYMAX AUDIO KIT</b></p>   <p>8320   10/W CITY CLASSIC panel and flush box (Flush box included ref.8855). Panel S5: 130x246. Flush box S5: 115x246x45.</p> <p>80447   CITYMAX BASIC telephone (10 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+10</p>	<p><b>6212 12/W CITYMAX AUDIO KIT</b></p>   <p>8321   12/W CITY CLASSIC panel and flush box (Flush box included ref.8855). Panel S5: 130x246. Flush box S5: 115x246x45.</p> <p>80447   CITYMAX BASIC telephone (12 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+12</p>
<p><b>6214 14/W CITYMAX AUDIO KIT</b></p>   <p>8660   14/W CITY CLASSIC panel. Panel S6: 130x294.</p> <p>8856   Flush box S6. Flush box S6: 115x280x45.</p> <p>80447   CITYMAX BASIC telephone (14 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+14</p>	<p><b>6216 16/W CITYMAX AUDIO KIT</b></p>   <p>8661   16/W CITY CLASSIC panel. Panel S6: 130x294.</p> <p>8856   Flush box S6. Flush box S6: 115x280x45.</p> <p>80447   CITYMAX BASIC telephone (16 units)</p> <p>4802   Power supply 12Vac/1A. DIN4.</p> <p>4+16</p>



# AUDIO KITS

BUILDINGS

KITS

## 6218 18/W CITYMAX AUDIO KIT



8320 10/W CITY CLASSIC panel and flush box (Flush box included ref.8855).  
Panel S5: 130x246.  
Flush box S5: 115x246x45.  
80447 CITYMAX BASIC telephone (10 units)  
4802 Power supply 12Vac/1A. DIN4.  
4+18

## 6220 20/W CITYMAX AUDIO KIT



8321 12/W CITY CLASSIC panel and flush box (Flush box included ref.8855).  
Panel S5: 130x246.  
Flush box S5: 115x246x45.  
80447 CITYMAX BASIC telephone (12 units)  
4802 Power supply 12Vac/1A. DIN4.  
4+20

## 6222 22/W CITYMAX AUDIO KIT



8660 14/W CITY CLASSIC panel.  
Panel S6: 130x294.  
8856 Flush box S6.  
Flush box S6: 115x280x45.  
80447 CITYMAX BASIC telephone (14 units)  
4802 Power supply 12Vac/1A. DIN4.  
4+22

## 6224 24/W CITYMAX AUDIO KIT

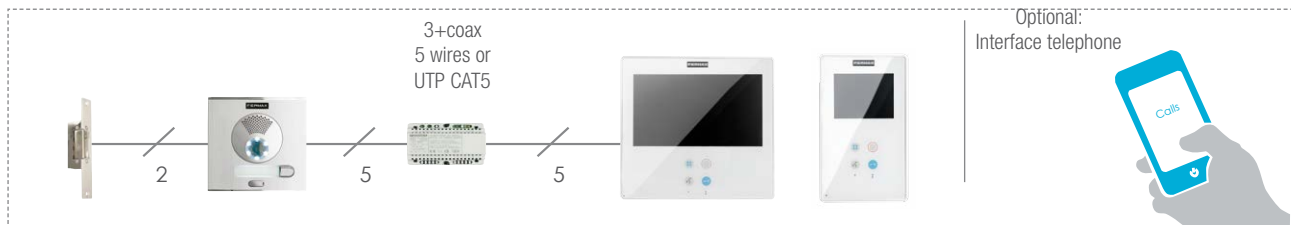


8661 16/W CITY CLASSIC panel.  
Panel S6: 130x294.  
8856 Flush box S6.  
Flush box S6: 115x280x45.  
80447 CITYMAX BASIC telephone (16 units)  
4802 Power supply 12Vac/1A. DIN4.  
4+24

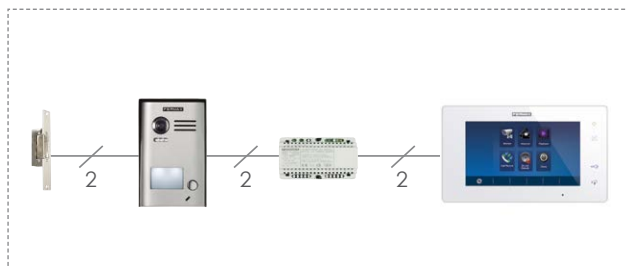


### DIAGRAM BASIC INSTALLATIONS VIDEO KITS

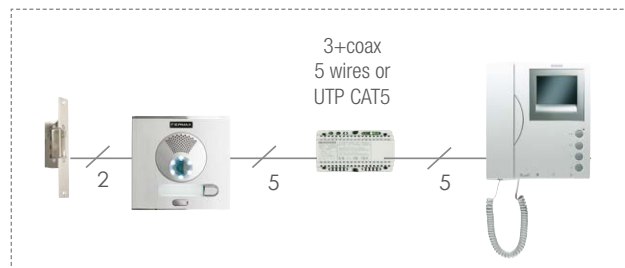
SMILE VIDEO KIT. INSTALLATION: VDS



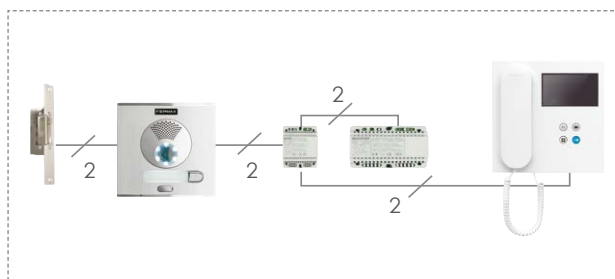
WAY VIDEO KIT. INSTALLATION: 2 WIRES



VDS CITY VIDEO KIT. INSTALLATION: 5 WIRES

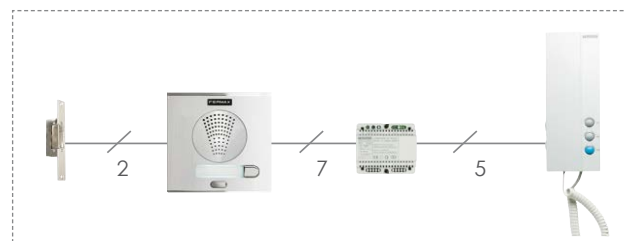


DUOX VEO VIDEO KIT. INSTALLATION: 2 WIRES



### DIAGRAM BASIC INSTALLATIONS AUDIO KIT

CITY AUDIO KIT. INSTALLATION: 4+N



The door is open. Please, close the door behind you

12:15



## OUTDOOR PANELS

SKYLINE	34
CITYLINE	44
URBANLINE	48
HI-LINE	50
CITYLINE CLASSIC	52
MARINE	54



# SKYLINE PANEL

OUTDOOR PANELS



FERMAX guarantees the immediate supply of SKYLINE products (except stock breaks or fault of the company).



## ABSOLUTE VERSATILITY. MODULAR COMPOSITION

SKYLINE is the perfect door entry panel for contemporary installations that requires multiple integration systems: information, communication and access control.

Its versatility makes it the only panel able to fulfill any requirements which may arise in any residential, industrial or service sector project.

Its modular design and versatility provide TOTAL CREATIVE FREEDOM to create any imaginable combination.

## COMBINES

It consists of different modules: 8 frames of different dimensions, audio-video modules, push buttons modules, digital modules, access control readers, information modules and other accessories.

## ENHANCES

SKYLINE modules include the most cutting-edge technologies and functionalities, such as the OneToOne module or the fingerprint reader module.

The modules are smart system linked, facilitating their repair and maintenance, as well as the subsequent inclusion of more cutting-edge equipment or new modules.

## RESISTS

SKYLINE manufacturing materials - anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate in transparent elements, stainless steel inner grids, etc - are chosen for their beauty and maximum resistance to bad weather conditions.

## PROJECT

SKYLINE consists of 8 different-sized frames where different modules can easily be fitted. Modules come in 2 sizes, designated **V and W (W is twice the size of V)**. The audio and video modules are available in all FERMAX technologies. Once technology has been selected, the use of these modules with the appropriate frames, allows to set up the panel necessary for any installation.

### VIDEO AND AUDIO MODULES



Video W

Audio W



Frame  
1V-51.130x128

Frame  
2V-52.130x151



Frame  
3V-54.130x199



Frame  
4V-55.130x246



Frame  
5V-56.130x294



Frame  
6V-57.130x341



Frame  
7V-58.130x389



Frame  
8V-59.130x436,5

### SKYLINE FRAMES

### DOUBLE PUSH BUTTONS



8 Push. 204W

4 Push. 202V

2 Push. 201V

### SINGLE PUSH BUTTONS



4 Push. 104W

2 Push. 102V

1 Push. 101V

### DIGITAL MODULES



Direct / Digital  
keypad W

Display  
VDS/MDS W

Display Extra  
DUOX/LYNX W

MDS Digitiser  
V

### INFORMATIVE MODULES



Cardholder W

Cardholder V

OneToOne V

### ACCESSORIES



Metallic  
complement W

Metallic  
complement V

### STAND ALONE ACCESS CONTROL



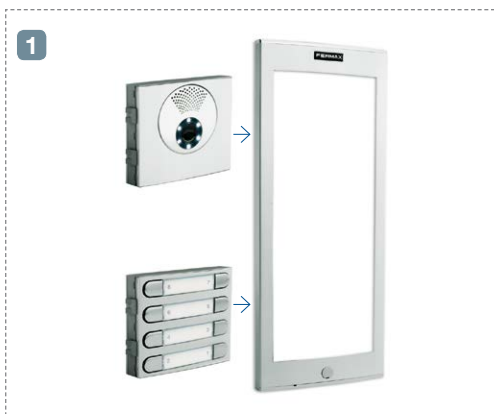
Keypad W

Fingerprint W

Proximity V



Module assembly sequence



## COMBINATIONS

The combination of frames and modules depends on the number of apartments at the building and the accessories needed.

There are two module sizes: V and W (W is twice the size of V).



V = 105,2x47,5mm



W = 105,2x95mm

Frames are designated according to their V module inclusion capacity.



## ASSEMBLY

The module-frame clip-on assembly system is very simple and effective.

The modules fit perfectly into the profile. Watertight tapes prevent water and dirt to get in.

Once the panel is assembled, the different modules are connected to each other.

The final result is a compact and robust equipment set, just like a monoblock panel (IP43 IK7).

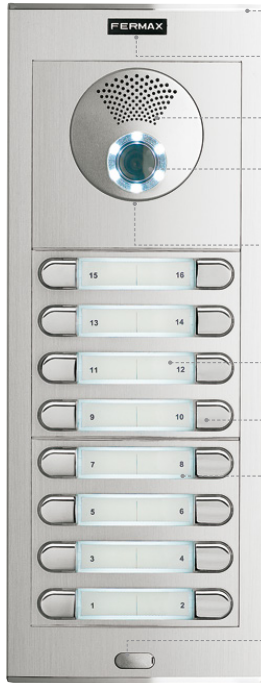
The push buttons contacts and digital keypad are watertight, assuring their operation and reliability.

Proven in laboratory trials to be able to resist 100,000 pressings in 48 hours.



## TECHNICAL FEATURES

### DUOX VIDEO PANEL WITH PUSHBUTTONS



- Zamak injected profile tops.
- Sliding logo. Concealed screw bolt fixes panel to flush box.
- High power and performance 2W amplifier. Elliptical loudspeaker.
- COLOUR camera with optical of 3,7mm. Lighting for night vision by 6 LEDs. A PANGTILT system allows to adjust the lens  $\pm 10^\circ$ , according to the panel position.
- Compact audio-video module. Frontal module in aluminium and inner stainless steel grid.
- Extruded aluminium curved-convex profile. Anodised finish.
- Permanent backlighting in the cardholders by low consumption LEDs.
- Zamak injected call button with chromed finish.
- Polycarbonate card slot. Frontal card slot access. Outdoor resistant labels.
- Concealed screw bolt fixes panel to flush box.
- High sensitivity electret microphone.

## REAR VIEW



- Voice synthesiser as standard. "The door is open. Please, close the door behind you".
- Adjust of conversation volume control from monitor, outdoor panel and synthesizer message.
- Electronic circuit manufactured in SMD. DUOX connections:
 

B, B:	Bus DUOX	Power supply telephones/monitors, data, audio and video.
C, NO, NC		Relay contacts, 2A@30Vdc (door lock connections).
+12		Output 12 Vdc - 250mA.
BS, -		Egress button.
S, -		Door sensor input.
+, GND		Not available yet. Future versions.
- Smart connection between modules. Extension call modules are not required.
- Push button with waterlight contacts. Able to resist 100.000 pressings in 48 hours.
- Laterally folding hinges.



## 1. FRAMES

Frames are named according to the capacity of the V modules they can incorporate.

7341	SKYLINE FRAME 1V - S1 130x128
7332	SKYLINE FRAME 2V - S2 130x151
7333	SKYLINE FRAME 3V - S4 130x199
7334	SKYLINE FRAME 4V - S5 130x246
7335	SKYLINE FRAME 5V - S6 130x294
7336	SKYLINE FRAME 6V - S7 130x341
7337	SKYLINE FRAME 7V - S8 130x389
7338	SKYLINE FRAME 8V - S9 130x436,5



ref.7341  
1V



ref.7332  
2V



ref.7333  
3V



ref.7334  
4V



ref.7335  
5V



ref.7336  
6V



ref.7337  
7V



ref.7338  
8V

## TWO OR MORE PANELS

### 8829 JOINING BOLTS SET

Allows to combine two or more frames. One set is required for each additional frame installed between the flush box.



## CONNECTION CABLES

Needed when there is more than one frame for connection of push buttons modules between frames (70 cm).

Choose the right cable depending on the panel configuration:

	PUSH BUTTONS	CARDHOLDER	ONE-TO-ONE	KEYPAD	DISPLAY
Ref.2540	4+N	4+N	DUOX/VDS 4+N		
Ref.2541	DUOX/VDS LYNX	DUOX/VDS LYNX		DUOX/VDS LYNX	DUOX/VDS LYNX
Ref.2542			DUOX/VDS		
Ref.2543			4+N		MDS

2540 4+N (3W) CONNECTION CABLE

2541 DUOX/VDS/LYNX (6W) CONNECTION CABLE

2542 DUOX/VDS (5W) CONNECTION CABLE

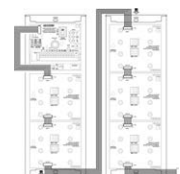
2543 MDS (7W) CONNECTION CABLE

2545 PROX (4W) CONNECTION CABLE

(Add with secondary proximity readers)



ref.2541/ 2540



DUOX/  
VDS



## SKYLINE PANEL ACCESSORIES

### FLUSH BOX

Made in aluminium and zamak, with folding hinges.

### SURFACE BOX

For those cases where a hole in the wall cannot be made for the flush mounted box.

### HOOD

To protect the outdoor panel when due to its location it may be affected by external agents such as rain, snow, etc.

### ANGULAR COMPLEMENT

Necessary when the panel must be fitted in a point hard to access, for example behind a gate.

### MODULAR DECORATIVE FRAME

In replacement applications, allows to cover up the hole left by the old panel. It is also an aesthetic element. Modular assembly.



MODULAR FRAME  
Elements included



	FLUSH BOX	SURFACE BOX	HOOD	MODULAR* FRAME	CITY FRAME	ANGULAR COMPLEMENT
S1 (1V)	ref.8851 115x114x45	ref.7061 130x128x33	ref.8400 135x130	ref.9191 211x210	ref.8251 225x310	ref.8378
S2 (2V)	ref.8852 115x138x45	ref.7062 130x151x33	ref.8401 135x155	ref.9192 211x234	ref.8252 225x310	ref.8379
S4 (3V)	ref.8854 115x185x45	ref.7064 130x199x33	ref.8403 135x203	ref.9194 211x281	ref.8254 225x375	ref.8381
S5 (4V)	ref.8855 115x233x45	ref.7065 130x246x33	ref.8404 135x250	ref.9195 211x329	ref.8255 225x375	ref.8382
S6 (5V)	ref.8856 115x280x45	ref.7066 130x294x33	ref.8405 135x300	ref.9196 211x376	ref.8256 225x450	ref.8383
S7 (6V)	ref.8857 115x328x45	ref.7067 130x341x33	ref.8406 135x345	ref.9197 211x424	ref.8257 225x450	ref.8384
S8 (7V)	ref.8858 115x375x45	ref.7068 130x389x33	ref.8407 135x393	ref.9198 211x471	ref.8258 225x450	ref.8385
S9 (8V)	ref.8982 115x420,5x45	ref.7069 130x436,5x33	ref.8480 135x440,5	ref.9199 211x519	ref.8259 225x495	ref.8386

\* To make DOUBLE modular frames, add to the SINGLE frame a DOUBLE PANEL MODULAR FRAME KIT ref.9200 H:341mm.

\* To make TRIPLE modular frames, add to the SINGLE frame a TRIPLE PANEL MODULAR FRAME KIT ref.9201 H:471mm.



## 2. MODULES

### VIDEO AND AUDIO AMPLIFIER

7391	DUOX VIDEO MODULE W
1622	LYNX VIDEO MODULE W
7421	VDS VIDEO MODULE W
7406	4+N VIDEO MODULE W
7390	DUOX AUDIO MODULE W
7415	VDS AUDIO MODULE W
7400	4+N AUDIO MODULE W



VIDEO COLOUR  
MODULE W

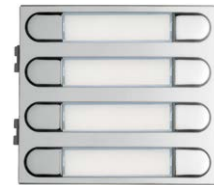


AUDIO MODULE W

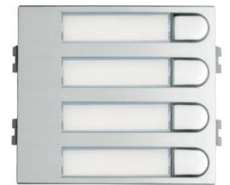
### PUSH BUTTON MODULES

#### DOUBLE PUSH BUTTONS

7371	8 PUSH. 204W DUOX/VDS/LYNX
7369	8 PUSH. 204W 4+N
7372	4 PUSH. 202V DUOX/VDS/LYNX
7370	4 PUSH. 202V 4+N
7376	2 PUSH. 201V DUOX/VDS/LYNX
7374	2 PUSH. 201V 4+N



8 PUSH. 204 W



4 PUSH. 104 W

#### SINGLE PUSH BUTTONS

7367	4 PUSH. 104W DUOX/VDS/LYNX
7365	4 PUSH. 104W 4+N
7368	2 PUSH. 102V DUOX/VDS/LYNX
7366	2 PUSH. 102V 4+N
7375	1 PUSH. 101V DUOX/VDS/LYNX
7373	1 PUSH. 101V 4+N



4 PUSH. 202 V



2 PUSH. 102 V



2 PUSH. 201 V



1 PUSH. 101 V


#### BRAILLE LABELS



6946	BRAILLE DOUBLE PUSH BUTTON LABEL. N°1-76
6945	BRAILLE SINGLE PUSH BUTTON LABEL. N°1-76



## DIGITAL MODULES

The DISPLAY allows to search through the list of residents and their allocated door codes (telephone book type). It indicates the communication status. The keys < > allow to browse through the menu. Press  to call the apartment after keying the door number on the keypad.

- 7450 DUOX EXTRA DIGITAL DISPLAY W

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- 1623 LYNX EXTRA DIGITAL DISPLAY W

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- 7449 VDS DIGITAL DISPLAY W

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- 7451 MDS DIGITAL DISPLAY W

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ref.7449/7451



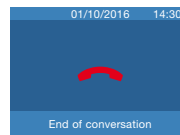
ref.7450/ ref.1623

NEW

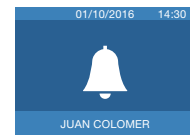
## DUOX EXTRA DIGITAL DISPLAY

The EXTRA DIGITAL DISPLAY stores up to 999.999 addresses for the DUOX system. It includes a 3,5" TFT with high luminance at outdoor environments, simplifying their use and increasing the performance of the door entry panels:

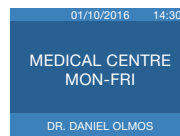
- **Integrated OneToOne:** Incorporates information about the call status: calling, in conversation, door open, or channel busy.
- **Showing images:** Up to 5 personalised images can be shown. Up to 10 user images can also be included.
- **Showing messages:** On the EXTRA display, personalised messages can be shown for each user or for the building.
- **Alphanumeric keypad and date and time indicator.**
- **Compatible with Wiegand-26 and Data Clock.**
- **It can be managed from the PC and features an RS-485 connection.**  
It requires AC PLUS DIRECT KEYPAD (ref.7457).



OneToOne



OneToOne



Showing messages



Showing images

The KEYPAD module allows to call the homes by keying the allocated door code. It also acts as an access control system, activating the door release when a given code is entered (depending on the technology).

- 7447 DUOX/VDS/MDS DIGITAL KEYPAD W

---

- 7439 DUOX/VDS/MDS DIRECT KEYPAD W

---

- 7457 LYNX DIRECT KEYPAD W

---

- 7460 MDS DIGITISER V

---

Necessary in MDS-CITY and MDS DIRECT panel combinations. OneToOne functions included.

### DIGITAL/DIRECT PANEL COMBINATIONS

	DUOX	VDS	MDS
DIGITAL VIDEO	7391+7450+7457	7421+7449+7447	7406+7451+7447
DIGITAL AUDIO	-	7415+7449+7447	7400+7451+7447
DIRECT VIDEO	7391+7439	7391+7439	7406+7460+7439
DIRECT AUDIO	-	7415+7439	7400+7460+7439



ref.7447



ref.7439

## INFORMATIVE MODULES AND COMPLEMENTS

- 7448 ONE-TO-ONE MODULE V

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Device that informs on door entry operating using illuminated pictograms: Calling, in call, door open or busy channel. Facilitates use for people with hearing difficulties.



ref.7448





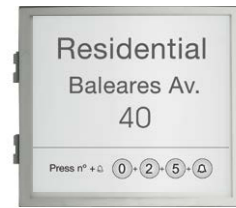
# SKYLINE PANEL

OUTDOOR PANELS

## 7445 CARDHOLDER W

## 7444 CARDHOLDER V

Informative cardholder with lighting to personalise the building, indicate the address or use as a residents and door codes directory needed in codified digital panels.



ref.7445



ref.7444

## 7443 METALLIC COMPLEMENT W

## 7442 METALLIC COMPLEMENT V

Made of the same material as the aluminium panels. Allows to cover gaps in the panel for future module installations.



ref.7443



ref.7442

## ACCESS CONTROL MODULES

For more information, see "Access Control" section.

## 7438 MEMOKEY W

Backlit stand-alone keypad with signal LEDs. Activates the door lock release when a code up to 6 digits is entered. Admits 100 different codes that can activate 1 or 2 relays. Power supply 12Vac/Vdc.



ref.7438

## 7453 AC PLUS/MDS KEYPAD W

For centralised systems with MDS Central Unit ref.2405 or ACPlus ref.4410.

## 7457 AC PLUS/LYNX DIRECT KEYPAD W

For access control combinations: keypad with proximity.

The following SKYLINE access control modules can be set up in stand-alone, centralized mode (MDS central unit ref.2405) or ACPlus (Central Unit ref.4410). The number of users in centralized mode depends on the central unit.

## 6936 FINGERPRINT READER W

Indoor/outdoor. Maximum capacity of 4.500 user (stand-alone).Includes an informative display and signal leds. Includes a built-in proximity reader to boost security and a remote infrared keypad for programming. 12Vdc/Vac.



ref.6936

## 7440 PROXIMITY READER V

It allows door opening when approaching a proximity card to the module. It manages up to 400 cards in stand-alone mode. Power supply 12Vac/dc.



ref.7440

## 23361 EM FERMAX PROXIMITY CARD

## 2336 EM PROXIMITY CARD WITH MAGNETIC BAND






















## 4515 EM PROXIMITY KEYRING



ref.23361



ref.4515

2 PUSH BUTTONS		4 PUSH BUTTONS		6 PUSH BUTTONS		8 PUSH BUTTONS	
	7333 Frame 3V S4 7391 Video DUOX 7421 Video VDS 7376 2P 201V 8854 Flush box S4		7333 Frame 3V S4 7391 Video DUOX 7421 Video VDS 7372 4P 202V 8854 Flush box S4		7334 Frame 4V S5 7391 Video DUOX 7421 Video VDS 7372 4P 202V 7376 2P 201V 8855 Flush box S5		7334 Frame 4V S5 7391 Video DUOX 7421 Video VDS 7371 8P 204W 8855 Flush box S5
DUOX / VDS		DUOX / VDS		DUOX / VDS		DUOX / VDS	
10 PUSH BUTTONS		12 PUSH BUTTONS		14 PUSH BUTTONS		16 PUSH BUTTONS	
	7335 Frame 5V S6 7391 Video DUOX 7421 Video VDS 7371 8P 204W 7376 2P 201V 8856 Flush box S6		7335 Frame 5V S6 7391 Video DUOX 7421 Video VDS 7371 8P 204W 7372 4P 202V 8856 Flush box S6		7336 Frame 6V S7 7391 Video DUOX 7421 Video VDS 7371 8P 204W 7372 4P 202V 7376 2P 201V 8857 Flush box S7		7336 Frame 6V S7 7391 Video DUOX 7421 Video VDS 7371 8P 204W (2units) 8857 Flush box S7
DUOX / VDS		DUOX / VDS		DUOX / VDS		DUOX / VDS	
18 PUSH BUTTONS		20 PUSH BUTTONS		22 PUSH BUTTONS		24 PUSH BUTTONS	
	7337 Frame 7V S8 7391 Video DUOX 7421 Video VDS 7371 8P 204W (2 units) 7376 2P 201V 8858 Flush box S8		7337 Frame 7V S8 7391 Video DUOX 7421 Video VDS 7371 8P 204W (2 units) 7372 4P 202V 8858 Flush box S8		7338 Frame 8V S9 7391 Video DUOX 7421 Video VDS 7371 8P 204W (2 units) 7372 4P 202V 7376 2P 201V 8982 Flush box S9		7338 Frame 8V S9 7391 Video DUOX 7421 Video VDS 7371 8P 204W (3 units) 8982 Flush box S9
DUOX / VDS		DUOX / VDS		DUOX / VDS		DUOX / VDS	
26 PUSH BUTTONS		28 PUSH BUTTONS		30 PUSH BUTTONS			
	7335 Frame 5V S6 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (2 units) 7372 4P 202V (2 units) 7376 2P 201V 7442 Metallic module V 8856 Flush box S6 (2 units) 8829 Joining bolts 2541 Connection cable		7335 Frame 5V S6 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (3 units) 7372 4P 202V 7442 Metallic module V 8856 Flush box S6 (2 units) 8829 Joining bolts 2541 Connection cable		7335 Frame 5V S6 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (3 units) 7372 4P 202V 7376 2P 201V 8856 Flush box S6 (2 units) 8829 Joining bolts 2541 Connection cable		
DUOX / VDS		DUOX / VDS		DUOX / VDS			
32 PUSH BUTTONS		34 PUSH BUTTONS		36 PUSH BUTTONS			
	7335 Frame 5V S6 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (3 units) 7372 4P 202V (2 units) 8856 Flush box S6 (2 units) 8829 Joining bolts 2541 Connection cable		7336 Frame 6V S7 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (4 units) 7376 2P 201V 7442 Metallic module V 8857 Flush box S7 (2 units) 8829 Joining bolts 2541 Connection cable		7336 Frame 6V S7 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (4 units) 7372 4P 202V 7442 Metallic module V 8857 Flush box S7 (2 units) 8829 Joining bolts 2541 Connection cable		
DUOX / VDS		DUOX / VDS		DUOX / VDS			
38 PUSH BUTTONS		40 PUSH BUTTONS		DIGITAL EXTRA			
	7336 Frame 6V S7 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (4 units) 7372 4P 202V 7376 2P 201V 8857 Flush box S7 (2 units) 8829 Joining bolts 2541 Connection cable		7336 Frame 6V S7 (2 units) 7391 Video DUOX 7421 Video VDS 7371 8P 204W (5 units) 8857 Flush box S7 (2 units) 8829 Joining bolts 2541 Connection cable		7336 Frame 6V S7 7391 Video DUOX 7450 Duox Extra digital display W 7457 DUOX digital keypad 8857 Flush box S7 (2 units)		
DUOX / VDS		DUOX / VDS		DUOX			



## MONOBLOCK DESIGN

Cityline is the luxury audio and video door entry panel from FERMAX.

Its monoblock concept and customised manufacture enable a wide range of solutions for door entry panels.

## CUSTOM MANUFACTURING

There are 5 different panel dimensions named “series”, all with the same width but with different height and push button capacities.

Each series consists of a large range of single or double push button solutions with the possibility to include: cardholders, informative screen modules and proximity reader.

With CITYLINE it’s possible to select the perfect design for each installation.

## VOICE-IMAGE WHERE BEFORE THERE WAS ONLY VOICE

CITYLINE maintains total compatibility with its predecessor (CITYLINE CLASSIC), ensuring its immediate.

This line includes video and audio functions in the same module, allowing to renew the CITYLINE CLASSIC audio entry panel for a CITYLINE video entry panel, keeping the same dimensions and using the same flush box.

Includes a highly sensitive CAMERA with 3.7mm lens. Additional night vision lighting with 6 LEDs. A PAN&TILT system allows to adjust the lens  $\pm 10^\circ$ , according to the panel position.

## DURABILITY AND RELIABILITY AT OUTDOORS

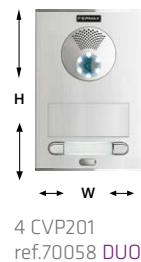
Manufactured in a highly weather resistant anodized aluminium profile (IP43 IK7). The push buttons and displays are chromed zamak, the amplifier façade in aluminium and the interior protected by a stainless steel grid.

Push buttons are waterlight designed and tested in the most demanding conditions to achieve great durability and reliability.

## 1. PUSH BUTTON PANELS

- Select the panel required according to the number of apartments in the building. There are 5 series.
- The flush or surface box must be requested separately depending on the series.
- The amplifier may be DUOX, VDS or analogue (4+N). In case of DUOX and VDS amplifiers, extension call modules are required: 8-calls (ref.2008) or 16-calls (ref.2441).
- Colour camera as standard.

## HOW TO SELECT A PANEL



CITYLINE CODES	
<b>4</b>	Series number (defines its height)
<b>C</b>	Amplifier with colour camera.
<b>V</b>	With viewer.
<b>P</b>	With push buttons.
<b>201</b>	Distribution 2 columns x 1 row (2 pushbuttons).

### SERIES 1 - PANEL: 130X128 FLUSH BOX: 115X114X45



1 CP101 ref.70708 DUOX ref.70707 VDS  
 1 CP201 ref.70008 DUOX ref.70007 VDS  
 1 AP101 ref.70704 DUOX ref.70703 VDS ref.70701 4+N  
 1 AP201 ref.70004 DUOX ref.70003 VDS ref.70001 4+N  
 1 V ref.7209

### SERIES 2 - PANEL: 130X151 FLUSH BOX: 115X138X45



2 CP102 ref.70718 DUOX ref.70717 VDS  
 2 CP202 ref.70018 DUOX ref.70017 VDS  
 2 AP102 ref.70714 DUOX ref.70713 VDS ref.70711 4+N  
 2 AP202 ref.70014 DUOX ref.70013 VDS ref.70011 4+N  
 3 CP103 ref.70728 DUOX ref.70727 VDS  
 3 CP203 ref.70028 DUOX ref.70027 VDS  
 3 AP103 ref.70724 DUOX ref.70723 VDS ref.70721 4+N  
 3 AP203 ref.70024 DUOX ref.70023 VDS ref.70021 4+N

### SERIES 4 - PANEL: 130X199 FLUSH BOX: 115X185X45



4CP104 ref.70748 DUOX ref.70747 VDS  
 4 CP204 ref.70048 DUOX ref.70047 VDS  
 4 CVP101 ref.70758 DUOX ref.70757 VDS  
 4 CVP201 ref.70058 DUOX ref.70057 VDS  
 4AP104 ref.70744 DUOX ref.70743 VDS ref.70741 4+N  
 4 AP204 ref.70044 DUOX ref.70043 VDS ref.70041 4+N  
 4 AVP101 ref.70754 DUOX ref.70753 VDS ref.70751 4+N  
 4 AVP201 ref.70054 DUOX ref.70053 VDS ref.70051 4+N

### SERIES 5 - PANEL: 130X246 FLUSH BOX: 115X233X45



5 CP105 ref.70828 DUOX ref.70827 VDS  
 5 CP205 ref.70128 DUOX ref.70127 VDS  
 5 CP106 ref.70838 DUOX ref.70837 VDS  
 5 CP206 ref.70138 DUOX ref.70137 VDS  
 5 AP105 ref.70824 DUOX ref.70823 VDS ref.70821 4+N  
 5 AP205 ref.70124 DUOX ref.70123 VDS ref.70121 4+N  
 5 AP106 ref.70834 DUOX ref.70833 VDS ref.70831 4+N  
 5 AP206 ref.70134 DUOX ref.70133 VDS ref.70131 4+N



# CITYLINE DIGITAL PANEL

OUTDOOR PANELS

cityline


PANELS



The Cityline Digital Video door entry panel includes a COLOUR CAMERA as standard and a numeric KEYPAD to make calls to residences. For calling, once the door code is entered, press the bell to call the calls to residences.

## INTUITIVE AND EASY USE

There are 2 panel models:

- DIRECT panels: They do not include a display and need a DIRECTORY to write the name of the residents and their allocated door codes. To call the apartment, enter the door code via keypad and press .
- DIGITAL panels: Select the resident/door from the DISPLAY and press the bell key directly.

## COMPACT AUDIO-VIDEO MODULE



The MODULE has a powerful built-in high-performance (2W) AMPLIFIER with volume control to set the conversation level. A synthesised message - "The door is open. Please, close the door

behind you" - is emitted while the door is opening. Opening time is adjustable from the keypad.

## KEYPAD WITH MAXIMUM RESISTANCE






The metallic keys are made in zamak with permanent BACKLIGHTING allowing to see the numbers in poor light conditions. Its robust design and airtight keys guarantee reliability and durability in any atmosphere.

## LCD DISPLAY



High contrast, enables to view the names of the residents and the codes through a phone book type DIRECTORY. The display shows the communication status: calling, busy channel, etc.

The keys   allow to browse through the user and programming menu. Once the door code is entered, press  to call the house.

## COLOUR CAMERA

Includes a highly sensitive CAMERA with 3.7mm lens. Additional night vision lighting with 6 LEDs. A PAN&TILT system allows to adjust the lens  $\pm 10^\circ$ , according to the panel position.

## ACCESS CONTROL KEYPAD



Through the keypad it is possible to activate the installation's electric lock. DUOX and VDS digital panels can handle up to 350 codes/users (Digital) or 1 common code per panel (Direct). The MDS Digital panel can manage up to 1.020 users.



# CITYLINE DIGITAL PANEL

OUTDOOR PANELS

cityline

## 1. DIGITAL PANEL

The DIGITAL panels include KEYPAD and DISPLAY. The keypad has access control function (350 codes in VDS, 10.000 codes in DUOX or 1.020 in Digital MDS with Central Unit).

### COLOUR VIDEO

7387 DUOX DIGITAL EXTRA VIDEO CITY PANEL S7

7299 VDS DIGITAL VIDEO CITY PANEL S7

7297 MDS DIGITAL VIDEO CITY PANEL S7

### AUDIO

7385 DUOX DIGITAL EXTRA AUDIO CITY PANEL S7

7303 VDS DIGITAL AUDIO CITY PANEL S7

7301 MDS DIGITAL AUDIO CITY PANEL S7

### ACCESSORIES

7310 DIRECTORY PANEL S7

8857 FLUSH BOX S7

8829 JOINING BOLTS SET

## 2. DIRECT PANEL

DIRECT PANELS have a KEYPAD to call the apartments. The keypad admits a code to open the door. Adding a directory panel or a cardholder is recommended.

### COLOUR VIDEO

7363 DUOX DIRECT VIDEO CITY PANEL S5

7305 VDS DIRECT VIDEO CITY PANEL S5

7287 MDS DIRECT VIDEO CITY PANEL S6

### ACCESSORIES

7309 DIRECTORY PANEL S5

8855 FLUSH BOX S5

7318 DIRECTORY PANEL S6

8856 FLUSH BOX S6

8829 JOINING BOLTS SET



VIDEO

AUDIO

ref.7310

Panel dimensions S7: 130x341  
Flush box dimensions S7: 115x328x45



ref.7363

ref.7309

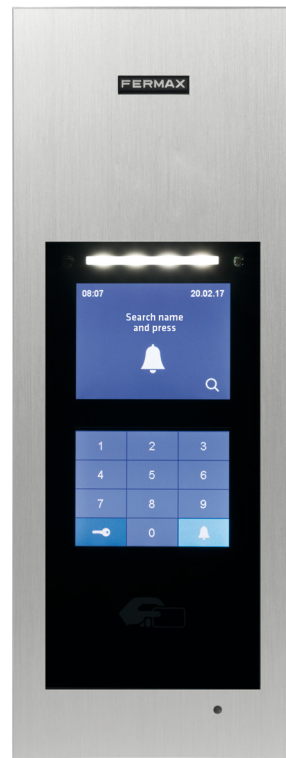
Panel dimensions S5: 130x246.  
Flush box dimensions S5: 115x233x45



ref.7287

ref.7318

Panel dimensions S6: 130x294.  
Flush box dimensions S6: 115x280x45



Dimensions:  
130x343mm  
Flush box S7:  
115x328x45

## FEATURES

The Urbanline panel is available with MDS technology, both in the video and audio versions. In the video version, the camera is in COLOUR with a wide-angle lens.

The display normally remains idle, and its built-in presence detector is activated when a visitor is detected. It can also be activated by touching the screen.

It is flush-mounted. It is fixed by using a concealed anchoring system, which avoids any tampering by users.

Its configurable alphanumeric keypad allows for quick and direct searches.

Date and time are shown on the upper screen.

## A NEW WAY TO UNDERSTAND AN OUTDOOR PANEL

This panel represents a different and richer way of interacting and communicating: with more information, more technology and with the strength and the solidity of traditional panels.

## COMBINATION OF MATERIALS

Urbanline effectively combines high-performance materials: weather-treated aluminium that is uniquely alternated with a touch-sensitive dual graphic display.

## SCREEN CONVERSATIONS

Interaction with the panel is accomplished via two 3,5" touchscreens. On the upper screen, messages for the visiting person appear with icons, menus and graphic animations, including date and time. The lower display transforms into a keypad.

## ACCESS CONTROL INCLUDED

The panel incorporates a double access control system as standard: Its access control operates via a personal proximity card or using numeric codes.

## REFERENCES

7482 MDS VIDEO URBANLINE PANEL

7481 MDS AUDIO URBANLINE PANEL

8857 FLUSH BOX S7

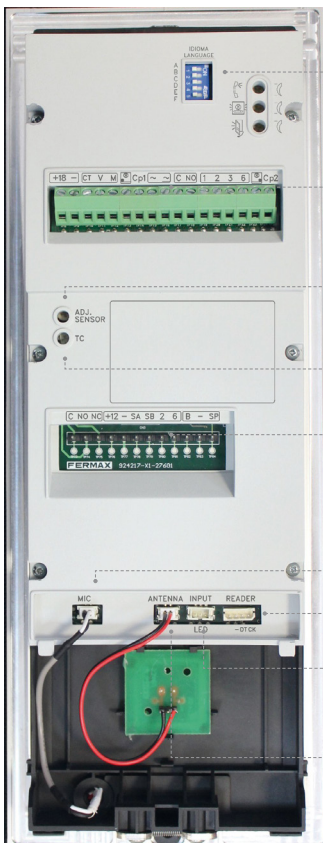


TECHNICAL SPECIFICATIONS  
MDS VIDEO DOOR ENTRY PANEL



- Sliding logo. Concealed screw bolt fixes panel to flush box.
- COLOUR camera with 3.7mm lens. A PAN&TILT system allows to adjust the lens  $\pm 10^\circ$ , according to the panel position.
- Lighting for night vision by LEDs.
- Time and date indicator
- 2 multifunctional 3.5" touchscreens (4:3 aspect ratio)
  - Upper screen: message display
  - Lower screen: configurable keypad for making calls and opening via password
- Presence detector
- 5mm aluminium panel. Anodised finish
- 3mm glass
- EM proximity reader. HID reader connection
- High sensitivity electret microphone.
- Fixing screws for hidden flush mounting panel

REAR VIEW



- Voice synthesiser as standard. "The door is open. Please, close the door behind you".
- +18V, -, CT, V, M: MDS video BUS (Only in video panel ref.7482).
- Presence sensor sensivity adjustment
- Keypad tone volume adjustment
- C, NO, NC: dry contact relay.
- +, -, SA, SB, 2, 6: MDS panel BUS.
- , BS: Exit push button.
- , SP: door sensor.
- Outdoor panel microphone connection.
- CN5: entry exit Wiegand-26
- CN6: HID readers connectors.
- CN6: Proximity reader antenna connection.



The most avant-garde TCP/IP technology, perfect usability and essential design are merged into HI-LINE, an outdoor panel that interacts with visitors in the simplest manner.

## REFERENCES

7480 LYNX VIDEO HI-LINE PANEL S8

8858 FLUSH BOX S8

Dimensions:

Panel S8: 130x389mm

Flush box S8: 115x375x45mm

## FEATURES

Made with high-quality materials such as 2,5mm thick stainless steel (AISI 316L) and chemically hardened glass with a thickness of 3mm, with clean lines that stand out on the outdoor panel. They are safe from the elements, since the anchors between the panel and the flush box remain hidden thanks to a new system that ensures their anchoring and robustness.

## INTUITIVE TECHNOLOGY

It is designed with **two multi-functional 5" TFT touchscreens**, which form an interface with simple, user-friendly icons, menus and graphic animations. It's easier than ever to use, with clear, complete instructions for the visitor.

The TFTs are high-brightness, for the best possible outdoor vision.



UPPER SCREEN  
Access to electronic agenda



LOWER SCREEN  
Alphanumerical keypad

**Its alphanumerical keypad** allows for quick and direct searches via the menu functions.

The device guides the user via interactive icons. It is possible to call an apartment directly via the keypad or via the electronic directory (similar to that of a mobile phone) which allows you to search for neighbours, who are sorted in alphabetical order and identified by the stair / floor / door number and the calling code, according to the distribution and codification rules of each building.

# HI-LINE PANEL

OUTDOOR PANELS

## DOUBLE ACCESS CONTROL SYSTEM

HI-LINE incorporates advanced security features: **an EM proximity reader (125Khz) and a PIN code.**

Holding up a registered card will activate the lock release.

The panel can accept connections to HID or MIFARE proximity readers.

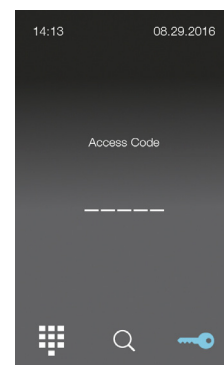
It is also possible to activate access control via the screen's own keypad, allotting a personal code to each user.

The HI-LINE panel can store **up to 10.000 users** through the Property Management Unit, which can be associated with a personal code for keyboard access and/or a proximity card number.

The management of uploads/downloads/user custom settings and their access codes is done directly from the panel itself, or optionally via a PC.



Proximity reader



PIN Code

## DATE AND TIME

Displays the date and time, in multiple formats.



Camera

Date and time

## WIDE ANGLE CAMERA

COLOUR camera with wide-angle lens.

## RETROVIEW

Enhances the interactive experience. Retroview produces a mirror effect, whereby the image appearing on the apartment monitor is also shown on the panel.

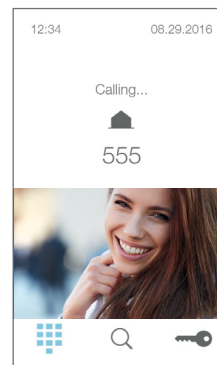
## CONFIGURATION AND SETTINGS

All system parameters can be configured from the panel itself.

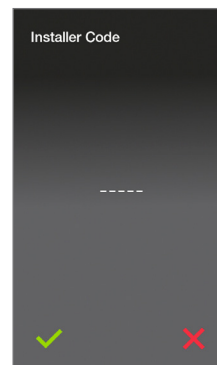
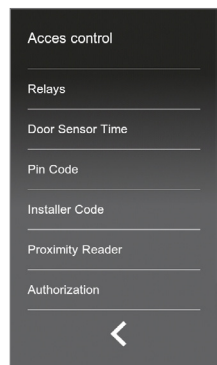
A secret code must be entered to access the configuration menu. Enter the installer code to effect changes to technical configurations: lock release time settings, function selection, etc.

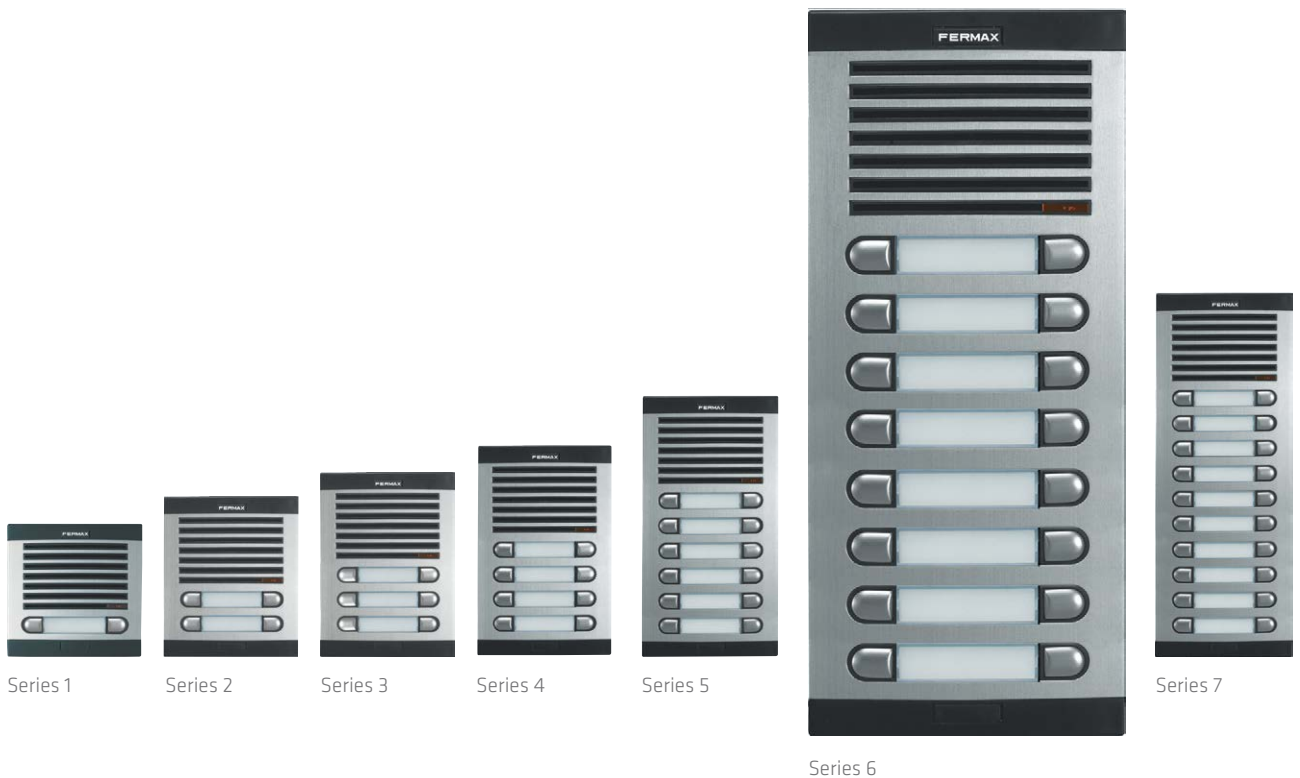


Call screen



Call screen with retroview





Cityline Classic is the range of audio door entry panels for small buildings. It stands out for its design, versatility and curved-convex profile. There are 7 continuous profile series, all of them the same width but with different heights and button capacities.

## FEATURES

- The **PANELS** are made of highly weather-resistant anodised aluminium. A cellular rubber waterproof seal, ensures perfect fitting of the panel in the wall, preventing water from getting in.
- Once installed, the tightening **SCREWS** are completely hidden by protection covers at the top and bottom. The screws are Allen type.
- The metal **PUSH BUTTONS** have a rounded shape, to keep with the curved profile of the panel. They can be double or single. The amplifier emits a confirmation sound when the button is pressed.
- The chrome finished buttons are protected against weather by thick chrome plating.
- The push buttons include a cardholder to place the name/number of the resident. By pressing the pushbutton, the cardholder illuminates making easier to find the names even in complete darkness.
- The **AMPLIFIER** is manufactured in SMD (Surface Mounting Device) and subject to a process of tropicalisation to withstand the most adverse weather conditions. It has: front button for lighting of card-holders, volume controls in both directions

for optimum sound level free from feedback, call confirmation sound, voice synthesiser in different languages, etc.

## ACCESSORIES



ref.8820



ref.2440



Same references used for SKYLINE panel, except for the following surface boxes:

SERIES	REF.	DIMENSIONS
1	8951	130x128x33
2	8952	130x151x33
3	8953	130x175x33
4	8954	130x199x33
5	8955	130x246x33
6	8956	130x294x33
7	8957	130x341x33

### 8820 PANORAMIC CARDHOLDER MODULE

Cardholder with lighting to personalise the building, print the name of the street, the number, etc.

### 2440 MDS CITY DIGITIZER MODULE

Necessary for MDS City panels. Call extension module is required depending on the number of pushbuttons (ref.2441).

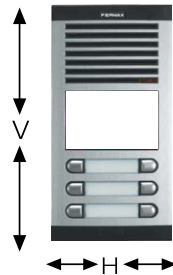
# CITYLINE CLASSIC PANEL

OUTDOOR PANELS

cityline

## HOW TO SELECT A PANEL

- The panels include 4+N amplifier.
- Select the panel required according to the number of homes in the building.
- Flush or surface box must be requested separately.



5AVP203  
ref.8637

<b>5</b>	Series number (defines its height)
<b>A</b>	Amplifier
<b>V</b>	With viewer
<b>P</b>	Push buttons
<b>203</b>	Distribution 2 columns x 3 rows (6 push buttons)

### SERIES 1

Panel: 130x128  
Flush box: 115x114x45



1 AP 101  
ref.8500

1 AP 201  
ref.8501

### SERIES 2

Panel: 130x151  
Flush box: 115x138x45



2 AP 102  
ref.8534

2 AP 202  
ref.8532

### SERIES 3

Panel: 130x175  
Flush box: 115x162x45



3 AP 103  
ref.8560

3 AP 203  
ref.8562

### SERIES 4 - PANEL: 130X199 FLUSH BOX: 115X185X45



4 AP 104  
ref.8593

4 AVP 101  
ref.8605

4 AP 204  
ref.8591

### SERIES 5 - PANEL: 130X246 FLUSH BOX: 115X233X45



5 AP 105  
ref.8622

5 AP 106  
ref.8623

5 AP 205  
ref.8620

5 AP 206  
ref.8621

### SERIES 6 - PANEL: 130X294 FLUSH BOX: 115X280X45



6 AP 107  
ref.8662

6 AP 108  
ref.8663

6 AP 207  
ref.8660

6 AP 208  
ref.8661

### SERIES 7 - PANEL: 130X341 FLUSH BOX: 115X328X45



7 AP 109  
ref.8702

7 AP 110  
ref.8703

7 AP 209  
ref.8700

7 AP 210  
ref.8701

Dimensions: (width) x (height) x (depth)mm.

**FERMAX**

GENERAL CATALOGUE 2017 **53**



# MARINE PANEL

OUTDOOR PANELS



Marine panel is a vandal-proof door entry system made in stainless steel (2,5mm-thick). (IP 54 IK 09). AISI 316L type of stainless steel.

## FEATURES

- Anti-vandal **PUSH BUTTONS**. The panels are made of stainless steel and anti-lock system. Resists any impact. Cardholders available to customise each apartment.
- The panel is fixed to the flush box by means of vandal-proof **SAFETY SCREWS** made of stainless steel. It is fixed to the wall by means of self-expanding screws and plugs, to avoid warping.
- A cellular rubber **WATERPROOF SEAL** ensures perfect fitting of the panel onto the wall, preventing water from getting in.
- Both, the **CARDSLOTS** with push buttons and the display of the camera, are made of 6mm thick polycarbonate, resistant to high temperatures and to vandal actions.
- The SMD (Surface Mounting Device) **AMPLIFIER**, which has been subjected to a process of tropicalisation, is designed to withstand the most adverse weather conditions. A synthetised message - "The door is open. Please, close the door behind you"- is emitted

- while the door is opening. Available in 32 languages.
- The **CAMERA** (protected by a 6mm-thick polycarbonate) is equipped with lighting for low-light conditions. It has a **PAN&TILT** adjustment system to move the camera  $\pm 10^\circ$  in any direction. It incorporates a 3,6mm wide angle lens.

## 1. PUSH BUTTON PANELS

Select the corresponding panel accessories. Flush and surface box must be requested separately. The indicated references include DUOX or VDS amplifier and COLOUR camera. For selecting 4+N technology, follow the "4+N MARINE AMPLIFIER COMBINATIONS" table.

In case of DUOX and VDS amplifiers, extension call modules are required: 8-calls (ref.2008) or 16-calls (ref.2441).

For the combination of 2 Marine panels of the same series, joining bolts are required between the flush boxes (ref.2289).

4+N MARINE AMPLIFIER COMBINATIONS:

	Audio	Colour Video
4+N	ref. = xxxx1	ref. = xxxx6



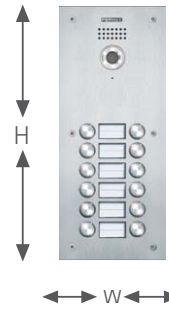
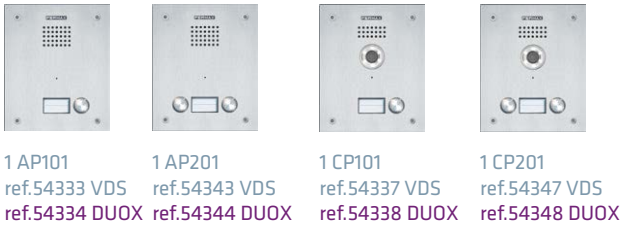
# MARINE PANEL

OUTDOOR PANELS

## FLUSH OR SURFACE BOX .

ST1			ST2			ST3			JOINING BOLTS SET
FLUSH BOX	SURFACE BOX	HOOD	FLUSH BOX	SURFACE BOX	HOOD	FLUSH BOX	SURFACE BOX	HOOD	
ref.4641 130x160x55	ref.4645 154x184x96	ref.4701	ref.4642 130x220x55	ref.4646 154x244x96	ref.4702	ref.4643 130x340x55	ref.4647 154x364x96	ref.4703	ref.2289

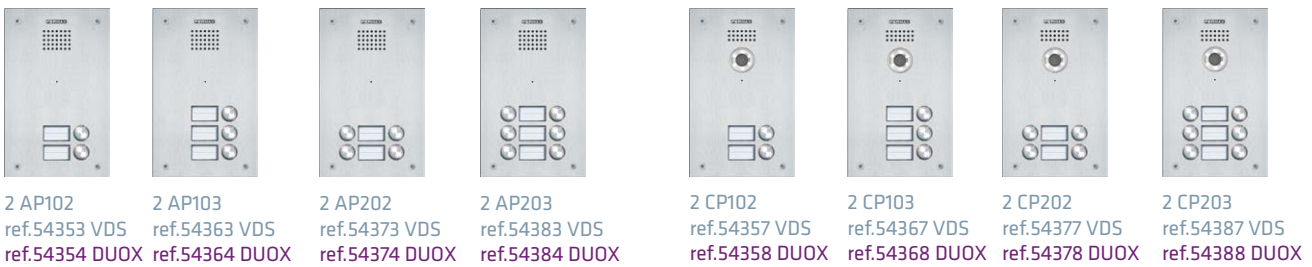
### SERIES ST1 - PANEL: 150X180 FLUSH BOX: 130X160X55



2 CP206  
ref.54457

**2** Series number ST2 (defines its height)  
**C** Camera  
**P** Push buttons  
**206** 2 columns x 6 rows (12 push buttons)

### SERIES ST2 - PANEL: 150X240 FLUSH BOX: 130X220X55



### SERIES ST3 - PANEL: 150X360 FLUSH BOX: 130X340X55





# MARINE PANEL

OUTDOOR PANELS

## 2. DIGITAL PANELS

The MARINE DIGITAL panel includes a keypad to call the apartments by dialling the door number or the corresponding code.

- A DIRECTORY DISPLAY allows to search for the neighbours and their door number.  
Includes a numeric keypad, simple and intuitive to use.
- Once the code is introduced, press the BELL KEY to call.
- The metallic keys are made of zamak.
- BACKLIGHT allowing to see the numbers in poor light conditions.
- Through the keypad it is possible to activate the installation's electric lock. The management of codes/users numbers depends on the model panel: 10.000 codes (DUOX), 350 codes (VDS) and 1.020 codes (DIGITAL MDS with Central Unit ref.2405).

### COLOUR VIDEO

Flush or surface box must be requested separately.

5526 DUOX DIGITAL EXTRA VIDEO MARINE PANEL ST3

5468 VDS DIGITAL VIDEO MARINE PANEL ST3

5470 MDS DIGITAL VIDEO MARINE PANEL ST3

**NEW**

(For more information on the features of the Extra Digital Display, check Skyline section)

### AUDIO

5524 DUOX DIGITAL EXTRA AUDIO MARINE PANEL ST3

5465 VDS DIGITAL AUDIO MARINE PANEL ST3

5467 MDS DIGITAL AUDIO MARINE PANEL ST3

### ACCESSORIES

5471 DIRECTORY MARINE PANEL ST3

4643 MARINE FLUSH BOX ST3

4647 SURFACE BOX MARINE ST3

2289 JOINING BOLTS

### ACCESS CONTROL READERS

The reader includes a flush box (ref.4641).  
Dimensions ST1: 150x180.

4699 MEMOKEY MARINE READER

4696 AC PLUS/MDS MARINE KEYPAD

5472 MARINE PROXIMITY READER

5482 MARINE FINGERPRINT READER



ref.5526



ref.5468 /  
ref.5470



ref.5471  
ST3: 150x360.



ref.4699



ref.5472



ref.5482

# MARINE PANEL

OUTDOOR PANELS

PANELS



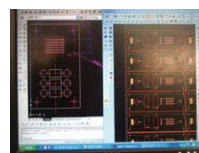
## 3. SPECIAL PANELS

FERMAX has a laser-cut machining line for stainless steel panels. This process allows us complete flexibility to make the Marine panel required, with optimum delivery time for the customised panel.

### 3172 MARINE SPECIAL PANEL

The following variations may be ordered:

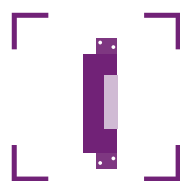
- Panel with special formats and dimensions.
- Integration of access control modules and special combinations with amplifier, push buttons and other accessories.
- Logotype laser marking.
- House number and messages integration.
- Push buttons without card slot and free layout.
- Including backlight.



Manufacturing process of Marine panels

Open your door for business together with Fermax





## DOOR LOCK RELEASES

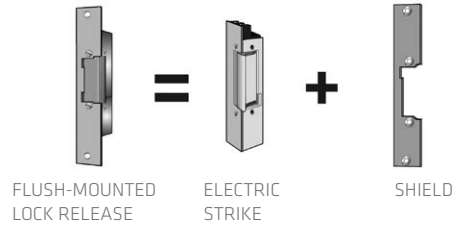
FLUSH-MOUNTED	61
SURFACE	62
SPECIALS	63

An electric door lock release basically consists of an electrical strike and a shield or case, depending of the installation system (flush-mounted or surface).

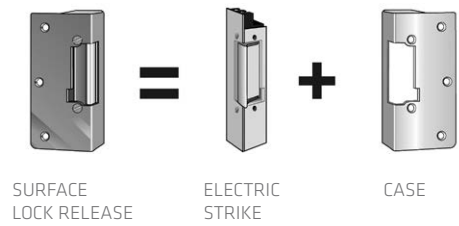


SERIES 2001

### FLUSH-MOUNTED

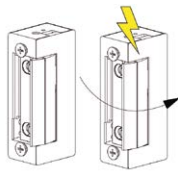


### SURFACE



## ▶ OPERATION MODES

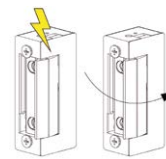
### NORMAL OPERATION - N



Allows door opening while the lock is powered.

N	12 Vac activation
N-412	12 Vdc activation
N-424	24 Vdc activation

### INVERTED OPERATION - N-500



Allows door opening while power to the lock release is off.

N-512	12 Vdc activation
N-524	24 Vdc activation

### AUTOMATIC OPERATION - A

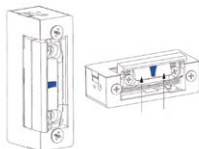
Ab (Sliding automatic) and Aa (Invisible automatic)

Enables door opening with a short electric pulse. The lock release is automatically blocked when the door is closed again.



#### A Automatic operation.

A	12 Vac activation
A-412	12 Vdc activation
A-424	24 Vdc activation



#### Ab Sliding automatic operation.

Lets you slide the automatic function with the MAX latch setting.

Ab	12 Vac activation
Ab-412	12 Vdc activation

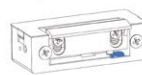


#### Aa Invisible automatic operation.

The automatic pin is suppressed to allow an easier fit to the mechanical lock. A very short electrical pulse is recommended.

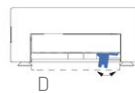
Aa	12 Vac activation
Aa-412	12 Vdc activation

### ADDITIONAL OPERATION



#### - Unlocking lever - D

The lock release with D in its description indicates the addition of a manual release lever which inhibits its function, which inhibits its operation, allowing free access.



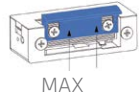
#### - Built-in microswitch - CTC.

Allows monitoring of door status (open/closed). Suitable for security systems. Not available for MAX version.



#### - Adjustable latch bolt - MAX

Allows a perfect fit between latch and bolt in the lock, with a 4mm margin. To order a MAX lock release, please add an 8 to the end of the reference of the compatible lock.



For more information about door lock releases, see our current "Lock releases catalogue".

# LOCK RELEASES

## 1. FLUSH-MOUNTED

**Universal**

**990 SERIES**

990 | 25,5  
990 | 66  
990  
990TOP

990 Series Consumption	
N	12Vac: 250mA; 12Vdc: 280mA 24Vac: 500mA; 24Vdc: 560mA
N-512	12Vdc: 175mA
MAX	+2mm

990TOP

**Standard**

**540 SERIES**

540Ab | 28 | 67  
540Ab | 540Ab-S

540 Series Consumption	
N,A	980mA
N-412	250mA
N-512	200mA
A-424	180mA
MAX	+3mm

540Ab MAX

DOOR LOCK

**NORMAL OPERATION - N**

**AUTOMATIC OPERATION - A**

		10-24Vac/dc	12-24Vac/dc
<b>UNIVERSAL</b>		67501 UNIV. LOCK RELEASE 990N-P22 MAX	67521 LOCK RELEASE 990A-P22 MAX
		67511 UNIV. LOCK RELEASE 990ND-P22 MAX	1824 LOCK RELEASE 990Ab-P22 MAX
		6750 ELECTRIC STRIKE 990N MAX	1823 LOCK RELEASE 990Ab-L22 MAX
		1813 ELECTRIC STRIKE 990ND MAX	67531 LOCK RELEASE 990AD-P22 MAX
		1814 ELECTRIC STRIKE 990ND TOPMAX	6752 ELECTRIC STRIKE 990A MAX
		67500 ELECTRIC STRIKE 990N CTC MAX	6753 ELECTRIC STRIKE 990AD MAX
		12Vac	12Vac
<b>STANDARD</b>		30711 LOCK RELEASE 540N-S MAX	30691 LOCK RELEASE 540A-S MAX
		28341 LOCK RELEASE 540ND-S MAX	1821 LOCK RELEASE 540Ab-S MAX
		1777 ELECTRIC STRIKE 540N MAX	28151 LOCK RELEASE 540Aa-S MAX
		1799 ELECTRIC STRIKE 540ND MAX	64551 LOCK RELEASE 540AbD-S MAX
		12Vdc	1812 ELECTRIC STRIKE 540Ab MAX
		30701 LOCK RELEASE 540N-412-S MAX	1780 ELECTRIC STRIKE 540Aa MAX
	1782 ELECTRIC STRIKE 540N-412 MAX	1811 ELECTRIC STRIKE 540AbD MAX	
		<b>INVERTED OPERATION - N-500 12Vdc</b>	12Vdc
<b>Univ.</b>		6780 ELECTRIC STRIKE 990N-512 MAX	1820 LOCK RELEASE 540Ab-412-S MAX
		67800 ELECTRIC STRIKE 990N-512 CTC MAX	1810 ELECTRIC STRIKE 540Ab-412 MAX
<b>Stand.</b>		64801 LOCK RELEASE 540N-512-S MAX	1728 ELECTRIC STRIKE 540Aa-412 MAX
		1794 ELECTRIC STRIKE 540N-512 MAX	1727 ELECTRIC STRIKE 540aD-412 MAX

NOTE: The electric strike requires a S short shield (ref.2973) or M large (ref.2893). For 990 series, it's recommended a P22 short (ref.2894) shield.



# LOCK RELEASES

## 2. SURFACE

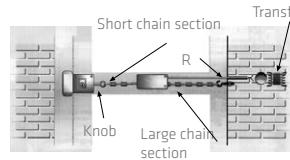
DOOR LOCK

2001 SERIES 2003 SERIES



2000 Series consumption		
N	12Vac	980mA

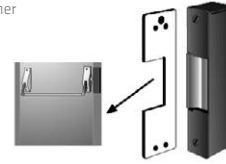
8000 SERIES (with chain)



ref.2984

8000 Series consumption		
N	12Vac	980mA

P SERIE (antipanic)



ref.3064

P Series consumption		
N	12Vac	980mA

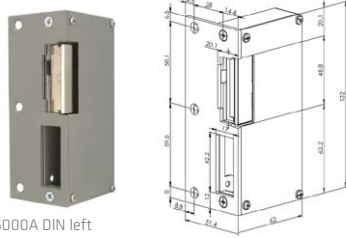
960 SERIES



ref.2878 / ref.2879

960 Series consumption		
12Vac/Vdc	850mA/1.7A	

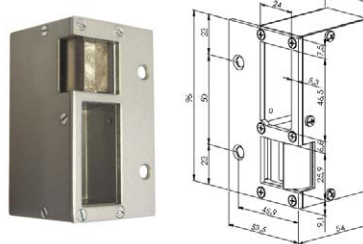
6000 SERIES



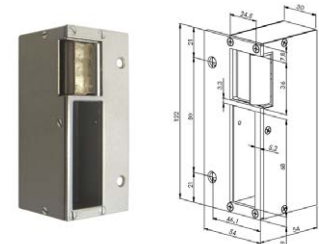
6000A DIN left

6000 Series consumption		
N.A	12Vac	980mA

480 SERIES



490 SERIES



480-490 Series consumption		
N.A	12Vac	980mA

### NORMAL OPERATION - N

### AUTOMATIC OPERATION - A

Without deadbolt

12Vac

- 2923 LOCK RELEASE N-2001 CHROME
- 2940 LOCK RELEASE N-2003 ANODIZED ALUM.
- 2984 LOCK RELEASE 8000N WITH CHAIN
- 3064 LOCK RELEASE PN (PANIC BAR)

12Vac

- 2917 LOCK RELEASE A-2001 CHROME
- 2942 LOCK RELEASE A-2003 ANODIZED ALUM.
- 2878 DOUBLE KEY 961
- 2879 DOUBLE KEY 962 WITH PUSH.

With deadbolt

12Vac

- 3004 LOCK RELEASE 6000N GREY
- 3021 ELECTRIC STRIKE 660N
- 3030 LOCK RELEASE 480N
- 3034 LOCK RELEASE 490N

12Vac

- 3005 LOCK RELEASE 6000A GREY
- 3006 LOCK RELEASE 6000AD GREY
- 3031 LOCK RELEASE 480A
- 3035 LOCK RELEASE 490A

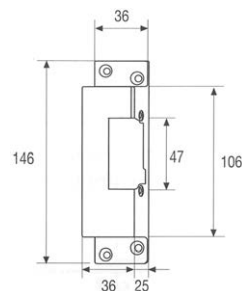
12Vdc

- 3072 LOCK RELEASE 6000N-412 GREY

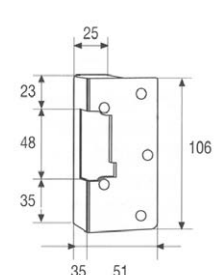
### ACCESSORIES

- 2979 SHIELD TYPE-2001 CHROME
- 2987 SHIELD TYPE-2006 GREY
- 2964 SHIELD TYPE-2007 GREY

2001-2006 SHIELD



2007 SHIELD




For more information about door lock releases, see current "Lock releases catalogue".



# LOCK RELEASES

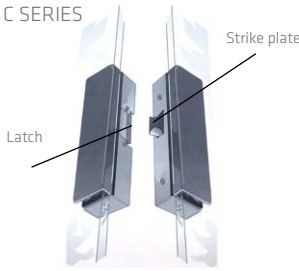
## 3. SPECIALS

**ELECTROMAGNETICS**



ELECTROMAGNETIC consumption	
12Vdc	500mA
24Vdc	250mA


**C SERIES**



ref.2998


C Series consumption		
N,A	12Vac	980mA

**700 SERIES**



ref.1786

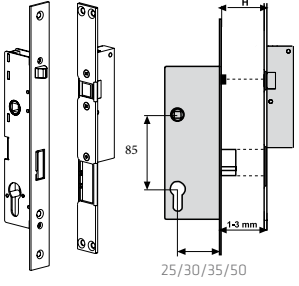
**CII SERIES**



ref.3098

CII Series consumption		
N-512	12Vdc	150mA

**850 SERIES**



ref.3101 / ref.3102

850 Series consumption		
12Vdc	1.350mA	
12Vac	990mA	

DOOR LOCK

### INVERTED OPERATION - N-500

12/24Vdc

- 3050 FLUSH. ELECTROMAGNETIC 300KG
- 30503 FLUSH. ELECTROMAGNETIC 750KG (swing door)
- 3052 SURF. ELECTROMAGNETIC 300KG
- 3078 BRACKET (for ref.3052)
- 3079 DOUBLE Z BRACKET
- 2837 U BRACKET (for ref.3052)
- 3098 GLASS LOCK RELEASE CIIN-512-SX 12V
- 1786 ELECTRIC DROP BOLT 700N-512/524

### AUTOMATIC OPERATION - A

12Vac

- 2998 GLASS CAD CHROME LOCK RELEASE
- 3101 SEG.850/50 A AUTOMATIC LOCK
- 3102 SEG.850/25 A AUTOMATIC LOCK

### ACCESSORIES

Flush-mounted lock releases

- 2973 S-TYPE GREY SHORT SHIELD
- 2893 M-TYPE GREY LARGE SHIELD
- 2894 P22-TYPE SHORT SHIELD
- 7770 YS-TYPE SHORT SHIELD (TOP)
- 7771 YG-TYPE SHORT SHIELD (TOP)
- 2975 G-TYPE GREY LARGE SHIELD (36mm)
- 2985 GE-TYPE GREY LARGE SHIELD (12mm)

For all type of lock releases

- 2913 2C DOUBLE CONTACT (WHITE)
- 7776 2CN DOUBLE DOOR CONTACT (BLACK)
- 2922 3C TRIPLE DOOR CONTACT
- 3083 X1 FLEXIBLE CONDUIT (30cm)
- 3084 X2 RIGID VANDAL PROOF CONDUIT (26cm)
- 4800 POWER SUPPLY. DIN 4. 12Vac/1,5A
- 4802 POWER SUPPLY. DIN 4. 12Vac/1A
- 4813 POWER SUPPLY. DIN 6. 12Vdc/2A
- 1076 MAGNETIC CONTACT

Today it is necessary to see who is knocking at your door





## MONITORS

SMILE / SMILE TOUCH	66
VIVO / VIVO PLUS	68
VEO-XS	70
VEO	72
LOFT	74
ILOFT	76



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DESKTOP SUPPORT	81
DECORATIVE FRAME	81



# MONITORS

INDOOR



7" Version



## A REVAMPED VIDEO DOOR ENTRY SYSTEM EXPERIENCE



7" Smile Touch with capacitive touchscreen

**smile** TOUCH  
VDS

**smile** TOUCH  
LIXX  
LYNX  
TCP/IP technology

7" Capacitive  
touchscreen

Capacitive  
Push buttons

"Do not disturb"  
function activated



3,5" Smile

**smile**  
VDS (7" and 3,5")

Intuitive  
screen  
Additional  
buttons



Hands-free SMILE monitors with colour TFT screen (7" or 3,5", depending on the model). These are distinguished by their resistant cover with ultraviolet protection, their high-quality digital audio, and their on-screen OSD menus.

The new SMILE TOUCH 7" model includes a multi-functional touchscreen.

It may be installed on a surface or flush to a wall.

## PERFORMANCE

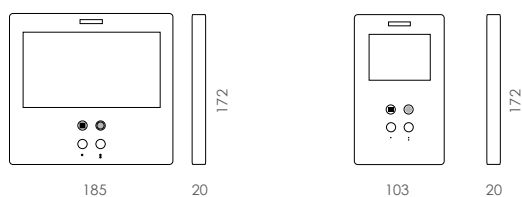
When a call is received from the video door entry panel, the image comes up automatically. The user will receive additional information regarding the call status on screen: calling, in conversation or door open.

## CHOOSE YOUR COLOUR

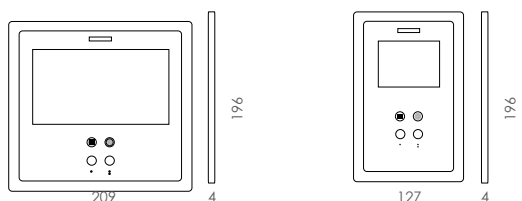
smile	WHITE	AB. WHITE	BLACK	SILVER
7"	6550	6555	6557	6556
3,5"	6545	6558	6564	6563
Touch 7"	6575			
Touch 7" Lynx		1650	1651	1652

## DIMENSIONS / INSTALLATION

Surface 20mm protrusion from the wall once fixed.



Flush-mounted 4mm protrusion from the wall once fixed.



## FUNCTIONS (VDS and LYNX)

- Activates/Deactivates the communication with panel.
- Door opening.
- Autostar: Auto-on / Main and secondary camera selection (it includes red led).
- MENU: for configuration and adjustments.
  - Long touch (5 s.): access to the user's menu.
  - Short touch: The invisible keyboard is activated to access the additional functions. In the Smile Touch version, the icons for the quick-access functions appear directly on the screen and may be activated by clicking on them.
  - "Do not disturb" Illuminated icon.
  - F1-F2: Activates additional functions: stair light switching, 2<sup>nd</sup> door opening, etc.
  - Allows to install a CCTV camera and view the image via the monitor.
  - Smile incorporates Braille markings into its push-buttons and provides on-screen information on call statuses to facilitate accessibility for people with disabilities.

### SMILE VDS (with colour 7" or 3,5" TFT screen):

It incorporates an additional keypad which remains invisible until activated. This features 4 backlit push-buttons which may be programmed to give direct access to those functions you would like to set as "favourites".

### SMILE TOUCH LYNX MODEL (with multi-functional 7" touchscreen):

Working with LYNX Full TCP/IP technology, Smile allows the integration of home automation systems, video surveillance with CCTV cameras and lift control, making Smile a true home technology interface.

Its functions are similar to those of VIVO monitors (see info on VIVO monitors). This model has no SD card or 4+N connection.

## ACCESSORIES for flush-mounted

Decorative frame	WHITE	BLACK	SILVER
7"	6552	6560	6559
3,5"	6547	6571	6570

Flush mounted box	Ref	Dimensions
7"	6551	198x186x44
3,5"	6546	112x186x44



# MONITORS

INDOOR



## VIVO

Vivo. 7" Screen

## VIVO+

Vivo +. 10" Screen

# VIVO

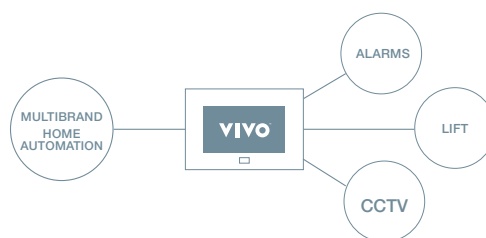
## The technological heart of home. IP

Hands-free VIVO monitor with crystal surface.

Featuring a high tech 7-inch capacitive touchscreen, the VIVO monitor operation flows naturally, offering a full and extensive range of operating options and multi-task capacities.

### CHOOSE YOUR COLOUR

	WHITE	BLACK	SILVER
<b>VIVO</b> 7" Screen	1620	1641	1640
<b>VIVO+</b> 10" Screen	9460	9461	9462



# MONITORS

# VIVO

VIVO offers a wide-ranging freedom of choice for users. The monitor allows:

## FRIENDLY LIST MANAGEMENT

Any call between different units is only possible upon the acceptance of those units in the friends list.

## BACKGROUND SETTINGS

VIVO provides a range of screen background colours.



## RINGTONES SETTINGS

A wide range of melodies specifically composed for VIVO monitor provide ringtone selections for each user and each situation, delivered with surround sound through the monitor's two high performance speakers.

## MENU CONFIGURATION

With a touch of the finger, the on-screen menu layout can be simply re-configured to reflect the habits and preferences of each individual.

## PRIVACY AND RESTRICTIONS MANAGEMENT

The user and installer can simply set or remove barriers for data protection.

LYNX enables projects to be customised to address the different needs of unique real estate developments. Whatever the project environment the VIVO monitor can be smoothly integrated.

## COMPATIBILITY WITH MULTI-BRAND HOME AUTOMATION SYSTEMS



Each home is unique and so are its requirements for device integration: wired or wireless, open standards or proprietary protocols, simple or complete. The VIVO monitor is the ideal communication gateway as it can integrate with dedicated applications for each Home Automation brand. The VIVO monitor allows for the easiest and most user friendly interaction with the most popular Home Automation systems available in the market.

## CCTV CAMERAS

VIVO monitor can display the images from any IP camera connected to the LYNX system making it a window to the world.

## LIFT

LYNX system and VIVO monitor interact with the elevators for the convenience and increased protection of the residents.

**CALL DIVERT TO SMARTPHONES & TABLETS**

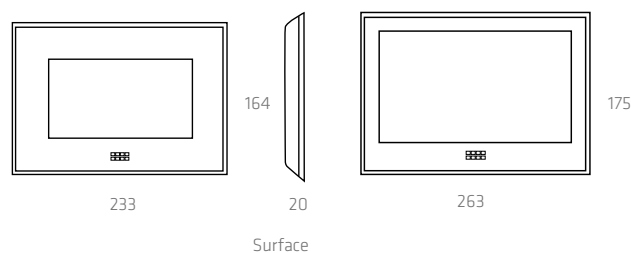
By incorporating a LYNX router in the installation, calls received at the door entry panel can be diverted to mobile devices, where the user can view the visitor's picture, set up communication with them and, if desired, open the door.

LYNXed app available on:

## PERFORMANCE

- TFT Colour touchscreen.
- Hands-free communication.
- Calls from and to:
  - Lynx panels.
  - Any Property Management Unit.
  - Any other IP monitor inside home.
  - Any other IP monitor in the same installation and accepted as a friend.
- Messages: Receives messages from and sends messages to the Property Management Units and other monitors in the friend list.
- Captures and stores images from any LYNX call panel or IP cameras connected to the system.
- Panic call to the Property Management Units upon the activation of one of its sensors or additional panic push buttons placed in other parts of the home
- Audio notes. Records and stores audio messages.
- Do not disturb. Silent calls can be configured for given or unlimited periods of time.
- Timer. VIVO monitor also acts as an alarm for time management purposes.

## DIMENSIONS / INSTALLATION



7" Monitor: 233x164x20. 10" Monitor: 263x175x20.  
20 mm protusion from the wall once fixed.



## MONITORS



INDOOR

NEW



# VEO XS

## Is the DIMENSION essential?

The new XS from VEO: what we've been waiting to see.

A VEO monitor with reduced dimensions that does away with handsets, allowing for communication in hands-free mode. Extra-comfortable. Extra-easy to use. Extra-small.





# MONITORS




Hands-free VEO-XS monitor. Characterised by its small size and extra-flat thickness. Thanks to its OSD menu and the layout of the buttons, interaction with the user is simple and intuitive.

Made of high-impact ABS plastic. Texturised finish for easy cleaning and ultraviolet protection.

Surface installation.

Only in DUOX technology.

## PERFORMANCE

When a call is received, the image appears automatically on screen. To have communication with the outdoor panel push , establishing a conversation in hands-free mode.

## PROGRAMMING

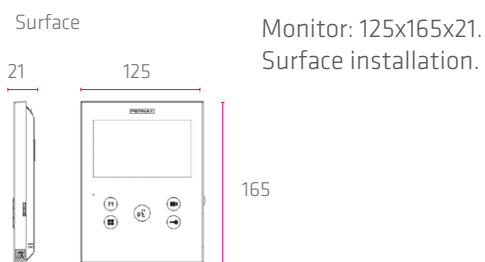
Allows internal parameters set up adjusted from the monitor itself once installed, through the digital menu. The monitor has to be programmed according to the apartment's number where it is installed.

## ACCESSORIES

3389 UNIVERSAL LARGE DECORATIVE FRAME

3388 UNIVERSAL DECORATIVE FRAME






## DIMENSIONS / INSTALLATION



Dimensions: (width) x (height) x (depth)mm.

## DUOX

### FUNCTIONS

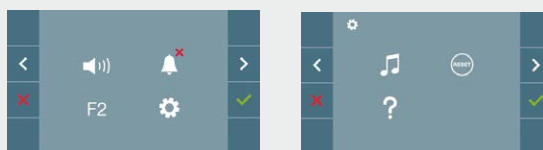
- 4,3" COLOUR TFT panoramic screen.
-  - Activate/deactivate the communication with the outdoor panel.
-  - Call to guard and door opener button.
-  - Autostart of main camera.
-  - OSD MENU for settings and configuration of internal parameters.
-  - F1: Button to activate additional functions: light switching, 2<sup>nd</sup> door opening, etc. Another additional function F2, can be programmed from the MENU.
- Door bell, to connect the apartment call button directly
- Sequential volume control via side-mounted wheel or the Menu.
- With monitor status LEDs:
  - .Red : "Do not disturb" function activated.
  - .Blue: In conversation.
- Optional: operating change from hands-free to press-to-talk mode.
- Includes DUOX line adaptor functions.
- Melody selection.

### OSD MENU

The OSD menu lets you browse the screen using intuitively interpreted graphic icons.

The icons displayed on the screen (browser buttons) are handled with the corresponding buttons located on the monitor:

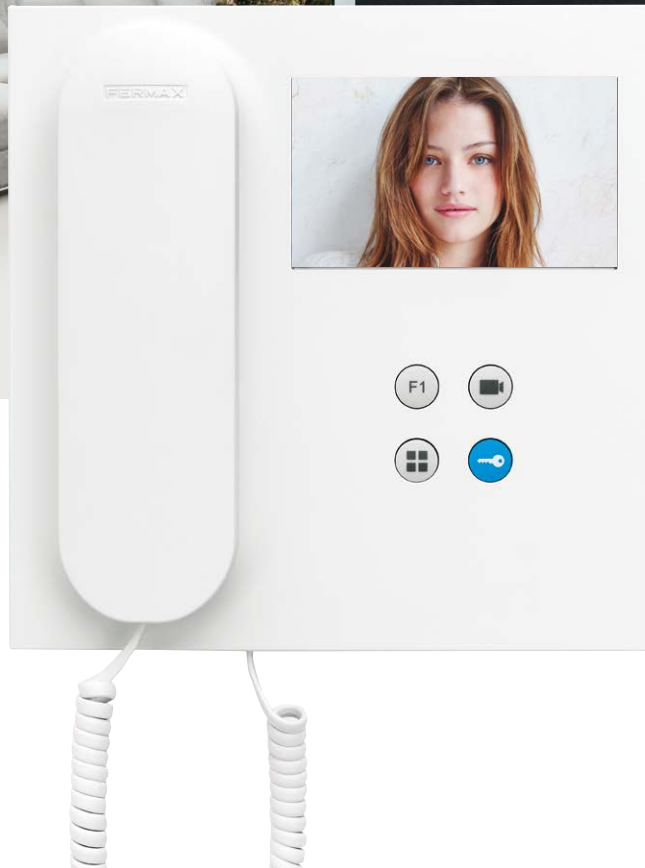
- ✓ Confirm choice and activate function.
- ← Select previous menu option.
- Enter next menu option.
- ✗ Go back to previous MENU level.





# MONITORS

INDOOR



# VEO

AN ESSENTIAL CONCEPT, FUNCTIONAL AND EASY-TO-USE  
**JUST ESSENTIAL**

The new Fermax monitor is even simpler and more functional. A synthesis that takes design and performance to their most essential expressions, in a monitor specially designed for those users who decide to take the leap into video.

A new member in the home for those seeking comfort and ease when communicating.




# MONITORS

The VEO monitor is made of high-impact ABS plastic. Texturised finish for easy cleaning and ultraviolet protection to get more resistance to the light. VEO incorporates a 4,3" colour TFT screen. Its unique handset design incorporating a magnet enables the user to put it back into position correctly when the call is finished.





Its balanced design of pure lines is distinguishing, modern and minimal. VEO integrates in the ambience

Available in DUOX and VDS technology.

## PERFORMANCE

When a call is received, the image appears automatically. When the handset is picked up a conversation with the visitor can take place. The image is de-activated automatically after 90 seconds, or when the handset is put back in position. To open the door, press the button .

## FUNCTIONS (VDS)

-  - 4,3" TFT panoramic screen.
-  - Door opener.
-  - Outdoor panel camera.
-  - Activation of two additional functions: light switching, 2nd door opening, etc.
- Door bell, for direct connection to house call push button.
- Select call tones.
- Call volume control: high, medium, disconnected.
- Brightness, contrast and colour control.

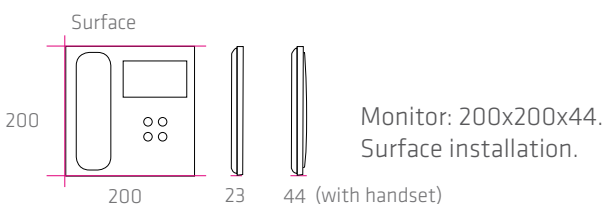
## ACCESSORIES

9410 VEO MONITOR DESKTOP SUPPORT

3389 UNIVERSAL LARGE DECORATIVE FRAME



## DIMENSIONS / INSTALLATION










Dimensions: (width) x (height) x (depth)mm.

# VEO

NEW

## DUOX





### FUNCTIONS

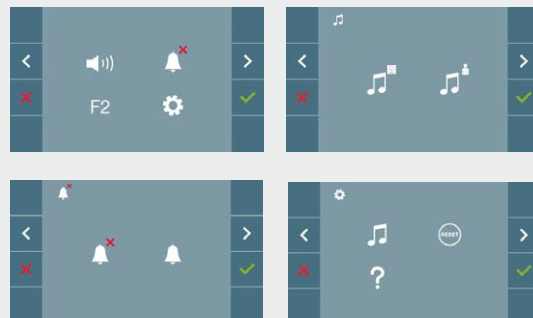
- 4,3" COLOUR TFT screen.
-  - Door opener.
-  - Autostart of main camera. If there is more than one panel, you can choose in which one you want to trigger the camera.
-  - Button to activate additional functions: light switching, 2<sup>nd</sup> door opening, etc. Another additional function F2, can be programmed from the MENU.
-  - Digital MENU to configurate and adjust the internal parametres:
-  - "Do not disturb" function.
-  - Selection of melodies and volume.
-  - To activate a 2<sup>nd</sup> additional function.
  - Brightness/Contrast/Colour adjustment.
  - QR code: access to [www.duoxbyfermax.com](http://www.duoxbyfermax.com) that contains manuals, complements, catalogues, etc that DUOX technology offers.

### OSD MENU

The OSD menu lets you browse the screen using intuitively interpreted graphic icons.

The icons displayed on the screen (browser buttons) are handled with the corresponding buttons located on the monitor:

-  Confirm choice and activate function.
-  Select previous menu option.
-  Enter next menu option.
-  Go back to previous MENU level.



INDOOR



## MONITORS

INDOOR



# LOFT

## A true FERMAX classic

A video door entry system with a contemporary design, winner of a prize in Milan, that has become the perfect choice for those who prefer classic models and practical solutions for modern interiors.




The LOFT monitor is made of high-impact ABS plastic. Texturised finish for easy cleaning and ultraviolet protection. It has many attachment points for wall mounting, as well as coiled cord with telephone plug connectors.

A magnet located in the handset allows it to hang safely.

Surface installation.

## PERFORMANCE

When a call is received, the image appears automatically on screen. When the handset is picked-up a conversation with the visitor can take place. Push the corresponding button  to open the door. The image disappears after a few seconds, or when the handset is hanged.



INDOOR

## ACCESSORIES



3386 DECORATIVE FRAME  
Dimensions: 250x240



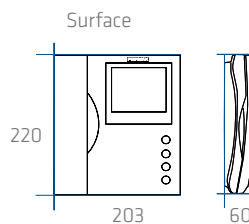
3441 LOFT HANDSET WITH INDUCTION LOOP  
 Adapted for people with a hearing disability.



## FUNCTIONS (VDS and 4+N)

- Available in B/W, COLOUR and with memories.
-  - Call to guard and door opener button.
-  - Autostart of main camera.
- F1-F2 - Button to activate additional functions: stair light switching, 2nd door opening, panic call, etc.
- Door bell, for direct connection to house call push button (VDS version).
- Selectable call tones.
- Call volume control: high, medium, disconnected.
- Brightness, contrast and colour control.

## DIMENSIONS / INSTALLATION



Monitor: 203x220x60.  
Surface installation.



# MONITORS

INDOOR



iLoft. Flush mounted installation

iLoft Pure. Surface installation

## Essential design. Peace at home

### iLOFT


iLoft COLOUR hands-free monitor. Compact and extra slim. Its essential design features a transparent polycarbonate sheet, a singular audio output, multifunction buttons and a TFT screen displaying top quality and clarity. Flush-mounted installation.

### iLOFT PURE

iLOFT PURE represents the essence of the iLOFT family. Matt finish, without the transparent polycarbonate sheet. Minimalism and simplicity. Surface installation.



## PERFORMANCE

When a call is received, the image appears automatically on the monitor. To communicate with the outdoor panel the button  has to be pressed, allowing hands-free conversation.

## PROGRAMMING

Allow internal parameters set up adjusted from the monitor itself once installed, through the digital menu. The monitor has to be programmed depending on the number of apartments that are installed.

## ACCESSORIES

**iLOFT**

5631 DECORATIVE FRAME  
Made of beveled crystal.  
Only for flush-mounted monitor.

Dimensions: 189x256x6

COLOUR COVERS (only iLOFT)

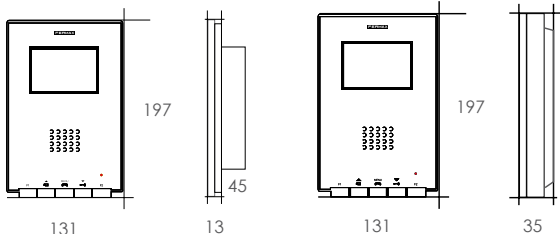
5635	GOLD	
5634	BLACK	
5633	SILVER	



## DIMENSIONS / INSTALLATION

**iLOFT** Flush-mounted

**iLOFT PURE** Surface






13 mm protrusion from the wall once fixed.

FERMAX flush box: 108x158x45.

Universal flush box: 114x174x50.






Dimensions: (width) x (height) x (depth)mm.

## FUNCTIONS (VDS)

- COLOUR TFT screen.
-  - Activate/deactivate the communication with the door entry panel.
-  - Call to guard and door opener button.
-  - Autostart of main camera.
- Door bell, for direct connection to house call push button.
- F1-F2 - Button to activate additional functions: stair light switching, 2nd door opening, panic call, etc.
- MENU - OSD menu for adjustment/regulation of internal parameters.
- Call volume control: high, medium and disconnected.
- Ringtone selection.
- Brightness/Contrast/Colour adjustment

## FUNCTIONS

**DUOX**





- COLOUR TFT screen.
-  - Door opener and call to guard unit.
-  - Autostart of main camera. If there is more than one panel, you can choose in which one you want to trigger the camera.
- Button to activate additional functions: light switching, 2<sup>nd</sup> door opening, etc. Another additional function F2, can be programmed from the MENU.
- MENU - Digital MENU to configurate and adjust the internal parameters:
  -  - "Do not disturb" function.
  -   - Selection of melodies and volume.
  - To activate a 2<sup>nd</sup> additional function.
  - Brightness/Contrast/Colour adjustment.
  - QR code: access to [www.duoxbyfermax.com](http://www.duoxbyfermax.com) that contains manuals, complements, catalogues, etc... that DUOX technology offers you.

## OSD MENU

The OSD menu lets you browse the screen using intuitively interpreted graphic icons.

The icons displayed on the screen (browser buttons) are handled with the corresponding buttons located on the monitor:



-  Confirm choice and activate function.
-  Select previous menu option.
-  Enter next menu option.
-  Go back to previous screen or standby.




## LOFT TELEPHONE

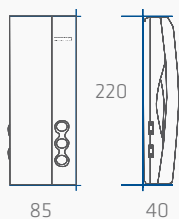
Made of high-impact ABS plastic with a textured finish for easy cleaning and ultraviolet protection. It has many attachment points for wall mounting, as well as coiled cord with telephone plug connectors.

A magnet located in the handset allows to hang it safely.

## PERFORMANCE

When receiving a call, it is possible to hold a conversation with the outdoor panel. Press  to open the door.


## DIMENSIONS



Telephone: 85x220x40.

## FUNCTIONS AND MODELS

The EXTRA version includes the following features:

-  - Call to guard and door opener button.
- F1-F2 - Button to activate additional functions: stair light switching, 2nd door opening, panic call, etc.
- 2 selectable call tones.
- Volume control: high, medium, disconnected.

UNIVERSAL version can replace the majority of standard telephones from other brands, both call buzzer and electronic. Also classic Fermax models.

## ACCESSORIES

### 3380 DECORATIVE FRAME

An aesthetic complement. Useful in replacement applications or replacing from older equipment. Dimensions: 200x240.

### 3441 LOFT HANDSET WITH INDUCTION LOOP



Adapted for people with auditive disabilities.

### 3749 DESKTOP SUPPORT





Citymax Basic



Citymax Palace




Citymax Universal

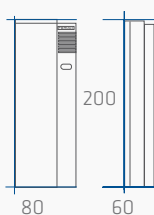
## CITYMAX TELEPHONE

Made of high-impact ABS plastic with a texturised finish for easy cleaning and ultraviolet protection. It has many attachment points for wall mounting, as well as coiled cord with telephone plug connectors.

## PERFORMANCE

When a call is received it is possible to establish a conversation with the outdoor panel. Push the corresponding button  to open the door.

## DIMENSIONS



Telephone: 80x200x60.

## AVAILABLE MODELS

BASIC, UNIVERSAL & PALACE. The UNIVERSAL version can replace the majority of standard telephones from other brands, both call buzzer and electronic. Also classic Fermax models.

PALACE: includes intercom pushbuttons. Depending on the model, telephone colour varies:

- BASIC: white finish.
- UNIVERSAL AND PALACE: pearl finish.

## ACCESSORIES (optional)

2 decorative frames in pearl colour (available for UNIVERSAL and PALACE telephones) useful in replacing old equipment.

2127	DECORATIVE FRAME
	Dimensions: 120x240
2130	LARGE DECORATIVE FRAME
	Dimensions: 200x240
3442	CITYMAX HANDSET WITH INDUCTION LOOP
	Adapted for people with auditive disabilities.
3749	DESKTOP SUPPORT



## iLOFT TELEPHONE

The iLOFT telephone is a compact and extra slim door entry system that works in hands-free communication with the outdoor panel.

The integrated digital audio VDS technology ensures a high quality, hands-free communication without interferences.

Surface installation.

## PERFORMANCE

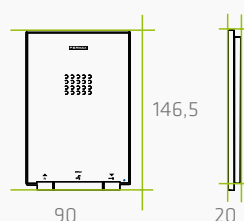
When receiving a call, a blue LED parpadea over the call button. To establish a hands-free communication with the outdoor panel, press the button.

Communication will end automatically after 90 seconds or when the call button is pressed again.

## FUNCTIONS

- ☎ - Button to activate/deactivate the communication with the door entry panel
- ☎ - Call to guard and door opener button.
- F1 - Button to activate additional functions: stair light switching, 2nd door opening, panic call...
  - 5 selectable or call tones.
  - Sequential control volume.
  - "Do not disturb" function: volume off-red led.
  - Option change of operation, from hands-free to press-to-talk.
  - VDS technology.

## DIMENSIONS / INSTALLATION



Telephone: 90x146,5x20.  
Surface installation.

# DESKTOP SUPPORT / DECORATIVE FRAMES

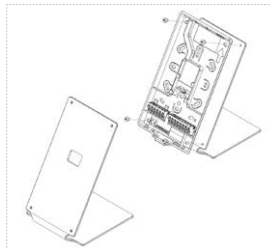


## DESKTOP SUPPORT

Fermax desktop supports allow a call from the entrance phone to be answered from the office desktop.

Recommended for offices, businesses and professionals who work from home.

### FITTING INSTRUCTIONS



1. Install the monitor connector on the desktop and secure it with the screws provided.
2. Connect the power strips according to colour code and installation.
3. Place the monitor on the connector.
4. Clean with alcohol the area where you intend to put the cable and clip it to the support.

### REFERENCES

- 6566 SMILE MONITOR DESKTOP SUPPORT  
(For Smile 3,5" and 7").
- 5637 iLOFT PURE MONITOR DESKTOP SUPPORT
- 9410 VEO MONITOR DESKTOP SUPPORT
- 1606 VIVO MONITOR DESKTOP SUPPORT
- 5636 ILOFT TELEPHONE DESKTOP SUPPORT

## DECORATIVE FRAMES

Universal frame compatible with FERMAX telephones and monitors. With an extra slim format, it is manufactured in a high resistant ABS plastic with a texturised finish.

In replacement works, allows to cover the space left by older equipment. In addition, it keeps the wall protected from the dirt produced by the use of telephones and monitors.

### TWO DIFFERENT MODELS

- 3388 UNIVERSAL FRAME**  
Allows to assemble:
- CITYMAX, LOFT and iLOFT telephones.
  - 3,5" SMILE monitor.
  - VEO-XS monitor.

- 3389 UNIVERSAL LARGE FRAME**  
Allows to assemble:
- CITYMAX, LOFT and iLOFT telephones.
  - 3,5" SMILE monitor.
  - 7" SMILE monitor..
  - VEO / VEO-XS monitor.

### DIMENSIONS

- 3388 UNIVERSAL FRAME. 120x240
- 3389 UNIVERSAL LARGE FRAME. 210x240



Ref.3388



Ref.3389



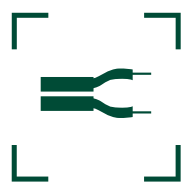
iLoft



Smile 7"



Simplified installation

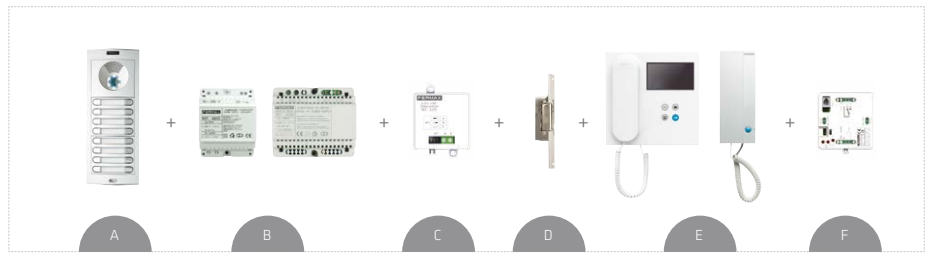


## SYSTEMS

DUOX	84
VDS	90
ANALOGUE	98
MDS	104
LYNX	112

## COMPOSITION

- A. Outdoor panel
- B. Power supply + filter
- C. Line adaptor
- D. Door lock release
- E. Monitors & telephones
- F. Accessories: relay (optional)



## FEATURES

- A simplified installation system. It performs the transmission of the signal (audio, video & data) in a completely digital way, increasing the equipment capacity using only 2 non polarised wires.
- Capacity: The system enables the management of up to 999.999 homes, up to 10 general entrance panels, up to 10 panels by block and 10 panels by sub-blocks, up to 100 interior blocks and up to 100 sub-blocks.
- Wiring: flexibility in the use of different cables types, including the cable of existing installations (UTP -CAT5, 4+N, 5 wires, or even the 2 wires of a door bell), following the specifications of DUOX features tables.
  - It's recommended to use parallel cable of 1mm<sup>2</sup>.
  - It's recommended to NOT use unipolar cable.
- Maximum distance: up to 120 meters (expandable with regenerators).
- No need for floor distributors or panel switchers. One line adaptor is needed at the start and end of each riser.
- The power supply ref.4830 can be used for up to 40 terminals with parallel cable of 1mm<sup>2</sup>.
- All panels include colour camera as standard with wide-angle lens and high sensivity.
- The DUOX amplifier comes with built-in voice synthesiser. When door release is activated, this message is heard: *"The door is open. Please, close the door behind you."* Configurable in 28 languages.
- The DUOX amplifier has a built-in voice guided programming system to facilitate in push button panels the configuration and start-up of the installation.
- DUOX monitors and handsets must be programmed with the n° of the apartment where they are installed from a panel configured as Master or from the monitor itself.
- The communication between outdoor panel and indoor terminal is PRIVATE.
- DUOX monitors and handsets can be combined in the same installation, with no need for additional elements.
- Telephones can be upgraded to monitors in the home at any time, without including additional elements.
- Extensions inside the home: may be extended with up to 2 monitors or 2 phones, with power supply set.



The "DUOX GUIDE" is available for more information about DUOX. Download it at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)

## 1. OUTDOOR PANEL

### CITYLINE AND MARINE PUSH BUTTONS

- Select the panel according to the number of apartments of the building (Panels section). DUOX amplifier is required.
- Select the corresponding flush box or panel accessory.
- Call extension modules are required depending on the number of apartments.

**2441**    **16 CALL EXTENSION MODULE**

**2008**    **8 CALL EXTENSION MODULE**



CITYLINE



MARINE



ref.2441



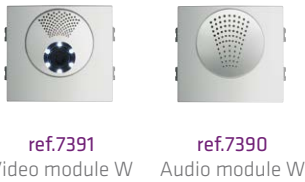
ref.2008



SKYLINE PANEL

SKYLINE consists of 8 different sized frames where different modules can easily be fitted. Modules come in 2 sizes, designated V and W (W is twice the size of V).

VIDEO AND AUDIO MODULE



SKYLINE FRAMES



DUOX DOUBLE PUSH BUTTONS



DUOX SINGLE PUSH BUTTONS



DUOX DIGITAL PUSH BUTTONS



INFORMATIVE MODULES



ACCESSORIES



STAND-ALONE ACCESS CONTROL



	S1 (1V)	S2 (2V)	S4 (3V)	S5 (4V)	S6 (5V)	S7 (6V)	S8 (7V)	S9 (8V)
FLUSH BOXES	ref.8851 115x114x45	ref.8852 115x138x45	ref.8854 115x185x45	ref.8855 115x233x45	ref.8856 115x280x45	ref.8857 115x328x45	ref.8858 115x375x45	ref.8982 115x420,5x45

If the configuration calls for more than one panel, a connection cable ref.2541 between them is needed (1 cable for each additional panel). They can be joined laterally within the same series by means of a joining bolt set (ref.8829).

## DIGITAL / DIRECT PANELS

- DIGITAL panels include keypad and EXTRA display. The keypad incorporates an access control function (10.000 codes).
- DIRECT panels have a keypad to call the apartments. The keypad admits 1 door release code. Adding a directory panel or card slot is recommended.

**NEW**

For more information on the features of the Extra Digital Display, check Skyline section.

### SKYLINE

It is possible to configure any DIGITAL or DIRECT panel combination with other access control or signaling accessories.

### CITYLINE

7387 DUOX DIGITAL EXTRA VIDEO CITY PANEL S7

7385 DUOX DIGITAL EXTRA AUDIO CITY PANEL S7

7310 DIRECTORY PANEL S7

8857 FLUSH BOX S7

8829 JOINING BOLTS SET

7363 DUOX DIRECT CITY PANEL S5

7309 DIRECTORY PANEL S5

8855 FLUSH BOX S5

8829 JOINING BOLTS SET

### MARINE

5526 DUOX DIGITAL EXTRA VIDEO MARINE PANEL ST3

5524 DUOX DIGITAL EXTRA AUDIO MARINE PANEL ST3

5471 DIRECTORY MARINE PANEL ST3

4643 FLUSH BOX ST3

2289 MARINE JOINING BOLTS SET

## 2. POWER SUPPLY/ADAPTOR

4830 POWER SUPPLY 18Vdc/3,5A

To power the DUOX System. 1 power supply is required for each 40 monitors. Necessary for extensions at home. DIN6

4812 POWER SUPPLY 18Vdc/1,5A

To power the DUOX System. 1 power supply is required for each 16 monitors. Necessary for extensions at home. DIN6

4810 POWER SUPPLY 18Vdc/1,5A-12Vac/1,5A

1021 EMERGENCY MODULE 18Vdc

For operation in the event of power cuts. Requires 2 lead acid batteries 12V/2,2A.

3244 DUOX FILTER

Combining with the power supply ref.4812 or ref.4810.

3255 DUOX LINE ADAPTOR

Necessary at the beginning and the end of the riser for installations with video panel. At the end of the riser for installations with audio panel



DIRECT panel with directory cardholder



VIDEO panel ref.7387



AUDIO panel ref.7385



ref.7363 ref.7309

Panel dimensions: 130x246 (S5)  
Flush box dimensions: 115x233x45 (S5)



ref.5526



ref.5524



ref.4812



ref.1021



ref.3244



ref.3255



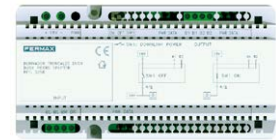
## 3. REGENERATOR

It allows to regenerate and amplify the signal in both ways, as well as amplify distances and number of terminals. Moreover, connected sections to input and output are protected in case of short circuits, charge and signal reflections mutually. Maximum 5 units in cascade.

### 3253 2/W DUOX REGENERATOR

It includes 1 Input and 2 Outputs. As it has 2 outputs, it allows for increasing the number of risers isolated from each other. It requires a power supply (filter not required) and it allows for supplying up to 20 terminals per output (40 in total with the source ref. 4830).

Recommended use: similar to ref. 3256, as well as increasing the number of risers in an installation. Recommended use in long distances between outdoor panel and power supply.



ref.3253

### 3256 1/W DUOX REGENERATOR

It includes 1 Input and 1 Output. The section on both sides require their own power supply set ('filter+source'): the regenerator with 1 output amplifies the data, but it does not allow the power supply through.

Recommended use: extending distances, increasing the number of terminals, isolating segments of the installation, isolating cable section changes on the same segment.



ref.3256

### 3259 1/W DUOX MULTICHANNEL REGENERATOR

For installations with general entrance to several blocks, it generates an additional call channel per block, allowing to maintain simultaneously as many conversations as blocks which have a ref. 3259 and their own outdoor panel. The rest of features are similar to ref. 3256.

Use: Only use ref. 3259 when an additional communication channel is required in installations with general entrance to several blocks.







ref.3259

## 4. GUARD UNIT

### 9409 DUOX AUDIO GUARD UNIT

The new DUOX Audio G.U. has a multi-functional 4.3" capacitive touchscreen and quick function access buttons for easy and convenient management:

-  - MENU: By pressing on it, or directly on the touchscreen, you may access an interface where all the incidents and actions on the installation are reported: call origins, call types, calls in progress, etc...
-  - Lock release
-  - Directly access to the communications display to apartments, outdoor panels and other guard units.
-  - Directly access to missed calls, which are notified by a red LED on the monitor.

Extra slim format, manufactured in high-impact ABS plastic and with a "mirror-polished" finish for easy cleaning. Its unique handset design incorporating a magnet enables the user to put it back into position correctly. The visitors image cannot be shown in the screen of the guard unit. Includes a stainless steel desktop support. Allows a surface installation.

3 operation modes:

- Day: receives calls from outdoor panels and apartments.
- Mixed: calls from the outdoor panel are received at the central unit and in the apartment.
- Night: only calls to apartments are allowed.



ref.9409  
Dimensions: 200x200mm  
Desktop support included.

## 5. DOOR LOCK RELEASE

### UNIVERSAL DOOR LOCK. MULTIVOLTAGE 12VAC/12VDC

67501 UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc

### UNIVERSAL MECHANISM. MULTIVOLTAGE 12VAC/12VDC

6750 UNIV. MECHANISM 990N MAX 10-24Vac/dc

6752 UNIV. MECHANISM 990A MAX 10-24Vac/dc

Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893 or L22 ref.2892).

### A/C ELECTRIC LOCK (VAC).

A power supply ref.4800 (12Vac/1,5A) or Vac door lock release activator (ref.3264) is required.

30711 LOCK RELEASE 540N-S MAX

Normal functioning and small shield. 12Vac.

1821 LOCK RELEASE 540Ab-S MAX

Automatic functioning and small shield. 12Vac.

3264 AC ELECTRIC LOCK COMMANDER

Maximum current: 1 Ampere.

### D/C ELECTRIC LOCK (VDC).

30701 LOCK RELEASE 540N-412-S MAX

Normal functioning and small shield. 12Vdc.

1820 LOCK RELEASE 540Ab-412-S MAX

Sliding automatic functioning and small shield. 12Vdc.

990 Series Consumption		
N,A	12Vac	250mA
	12Vdc	280mA



540

990

540 Series Consumption		
N,Ab	12Vac	980mA
N-412	12Vdc	260mA

## 6. MONITORS AND TELEPHONES

The DUOX monitors and telephones include door opener and call to the guard button as standard. They must be programmed with the number of the home in which they are installed. Maximum of 3 terminals per home. It is possible to choose the ringtone and set the volume.

### VEO-XS MONITOR

9408 4,3" DUOX VEO-XS MONITOR

9407 VEO-XS MONITOR CONNECTOR

### VEO MONITOR

9405 4,3" DUOX VEO MONITOR

9406 DUOX VEO MONITOR CONNECTOR

9410 VEO MONITOR DESKTOP SUPPORT

### ILOFT MONITOR

Surface model:

5603 DUOX iLOFT PURE MONITOR

5637 iLOFT DESKTOP SUPPORT

Flush-mounted model:

5602 DUOX iLOFT MONITOR

5630 iLOFT FLUSH BOX. 108x158x45

5631 iLOFT CRYSTAL FRAME. 189x256x6



ref.9405



ref.9410



ref.9408



ref.5602

# DUOX

## LOFT TELEPHONE

3421 DUOX BASIC PLUS LOFT TELEPHONE

3422 DUOX EXTRA LOFT TELEPHONE

## CITYMAX TELEPHONE

3425 DUOX BASIC CITYMAX TELEPHONE

3380 DECORATIVE FRAME. 200x240

3749 DESKTOP SUPPORT

## UNIVERSAL FRAMES

3388 UNIVERSAL FRAME. 120x240

3389 UNIVERSAL LARGE FRAME. 210x240

## 6. ACCESSORIES

### ADDITIONAL FUNCTIONS

3257 DUOX RELAY MODULE

An additional function may be triggered from the DUOX handset F1 or F2 buttons, with no extra wiring required. The relay can also be triggered by call or electric lock/door release activation. Allows for the pairing of 2 relays, one as sender and the other as receiver, for remote switching. It can be installed at any point of the bus.

29001 TIMER

Allows for the activation of a device for a given time (programmable from 0 to 6 minutes or 0 to 60 seconds). The activation can be automatic when a call is received or by means of a specific button on the telephone or monitor.

2013 ADDITIONAL FUNCTIONS RELAY

Allows for the activation of electrical devices remotely using an additional button on the telephone or monitor: switch on the stair light, open the garage, open a 2nd door, etc. 12Vdc, 12Vac or 18Vdc. For monitors and Extra Duox telephones.

### CALL ACCESSORIES

2040 ELECTRONIC CALL EXTENSION BELL

Equipment that receives the door entry system call tone, allowing it to be heard in any place where the call extender is located. It is possible to connect 1 per each monitor or handset.

2438 LIGHT OR BUZZER ACTIVATOR

Allows for the activation of high powered devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 for each monitor or handset.

## 7. CABLES

5925 DUOX PARALLEL CABLE 2x1mm<sup>2</sup>

Cables are supplied in 100 metres rolls.

59255 DUOX PARALLEL CABLE 2x1mm<sup>2</sup>

Cables are supplied in 500 metres rolls.



ref.3421



ref.3422



ref.3425+ref.3388  
120x240mm



ref.3425 ref.3389  
210x240mm



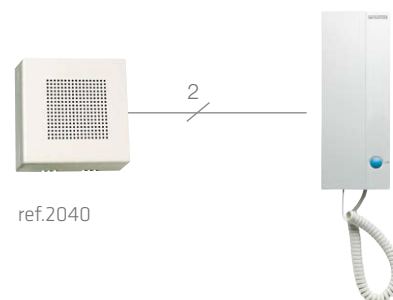
ref.3257



ref.29001



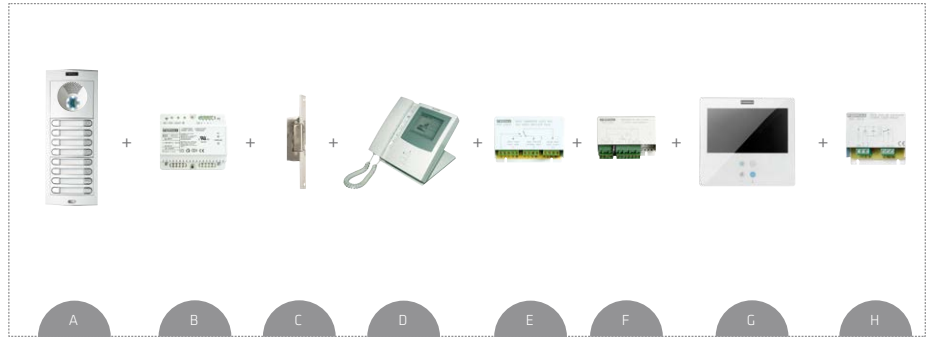
ref.2013



ref.2040

## COMPOSITION

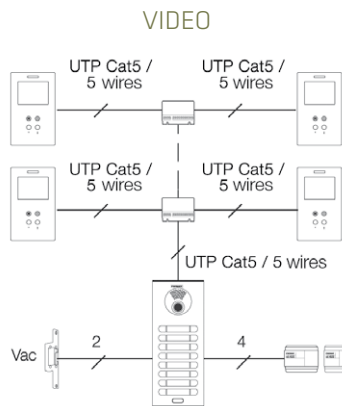
- A. Outdoor panel
- B. Power supply
- C. Door lock release
- D. Guard Unit
- E. Switcher (2 video accesses)
- F. In the building (by floor): distributor (video)
- G. Monitors and telephones
- H. Accessories



## FEATURES

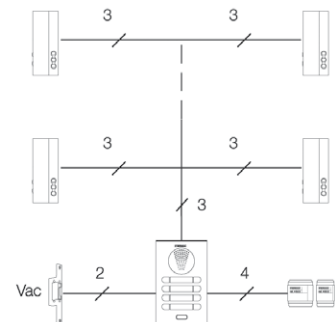
- VDS Wiring: 3 wires, UTP CAT5 or 3 wires + coaxial.
- Capacity: buildings up to 199 apartments, 2 accesses and guard unit.
- Maximum distance: 200 metres (see technical VDS information).
- VDS Amplifier includes a built-in voice synthesiser as standard. When door release is activated, the message is heard: "The door is open. Please, close the door behind you." Configurable in 32 languages.
- All panels include colour camera as standard.
- Monitors and handsets must be programmed with the n° of the apartment where they are installed. Telephones and monitors can be combined in the same building.
- The communication outdoor-indoor is PRIVATE.

\* It's possible to use 3 wires+coax. See specific technical information.



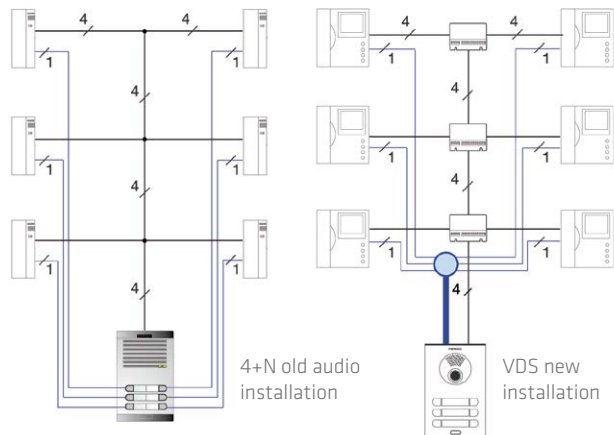
ref.4830 (+ref.4800 only if Vac lock release).

### AUDIO



ref.4830 (+ref.4800 only if Vac lock release).

### CHANGE FROM A 4+N AUDIO SYSTEM TO A VDS VIDEO SYSTEM



# VDS

## 1. OUTDOOR PANEL

### PUSH BUTTONS

SKYLINE (SEE SKYLINE PANEL SECTION)

CITYLINE AND MARINE

- Select the panel according to the number of apartments. VDS amplifier required.
- Request the flush-mounted box and accessories.
- For Cityline and Marine panels add the necessary call extension modules depending on the number of apartments.

2441 16 CALL EXTENSION MODULE

2008 8 CALL EXTENSION MODULE



CITYLINE



MARINE



ref.2441



ref.2008

### DIGITAL / DIRECT PANEL

- DIGITAL panels include a KEYPAD and a DIRECTORY DISPLAY. The keypad incorporates an access control function (350 codes).
- DIRECT panels have a KEYPAD to call the apartments. The keypad supports 1 code for door opening. A DIRECTORY panel is recommended.

SKYLINE (SEE NEXT PAGE)

CITYLINE

7299 VDS DIGITAL VIDEO CITY PANEL S7

7303 VDS DIGITAL AUDIO CITY PANEL S7

7310 DIRECTORY PANEL S7

8857 FLUSH BOX S7

7305 VDS DIRECT VIDEO CITY PANEL S5

7309 DIRECTORY PANEL S5

8855 FLUSH BOX S5

8829 JOINING BOLTS SET

MARINE

5468 VDS DIGITAL VIDEO MARINE PANEL ST3

5465 VDS DIGITAL AUDIO MARINE PANEL ST3

5471 DIRECTORY MARINE PANEL ST3

4643 MARINE FLUSH BOX ST3

4647 MARINE SURFACE BOX ST3

2289 MARINE JOINING BOLTS SET



ref.7299



ref.7305



ref.7309

Panel dimensions: 130x341 (S7) 130x246 (S5)  
Flush box dimensions: 115x328x45 (S7) 115x233x45 (S5)



ref.5468



ref.5471

Panel dimensions ST3: 150x360  
Flush box dimensions ST3: 130x340x45

Dimensions: (width) x (height) x (depth)mm.



### SKYLINE PANEL

SKYLINE consists of 8 different sized frames where different modules can easily be fitted. Modules come in 2 sizes, designated V and W (W is twice the size of V).

#### AUDIO AND VIDEO MODULE



ref.7421 Video module W ref.7415 Audio module W



ref.7341 Frame 1V-51.130x128 ref.7332 Frame 2V-52.130x151 ref.7333 Frame 3V-54.130x199 ref.7334 Frame 4V-55.130x246 ref.7335 Frame 5V-56.130x294 ref.7336 Frame 6V-57.130x341 ref.7337 Frame 7V-58.130x389 ref.7338 Frame 8V-59.130x436,5

#### SKYLINE FRAMES

#### DOUBLE PUSH BUTTONS



ref.7371 8 Push. 204W ref.7372 4 Push. 202V ref.7376 2 Push. 201V

#### SINGLE PUSH BUTTONS



ref.7367 4 Push. 104W ref.7368 2 Push. 102V ref.7375 1 Push. 101V

#### DIGITAL PUSH BUTTONS



ref.7439 Direct keypad W ref.7449 Display W ref.7447 Digital keypad W

#### INFORMATIVE MODULES



ref.7445 Cardholder W ref.7444 Cardholder V ref.7448 OneToOne V

#### ACCESSORIES



ref.7443 Metallic complement W ref.7442 Metallic complement V

#### STAND-ALONE ACCESS CONTROL



ref.7438 Keypad W ref.6936 Fingerprint W ref.7440 Proximity V

	S1 (1V)	S2 (2V)	S3 (3V)	S5 (4V)	S6 (5V)	S7 (6V)	S8 (7V)	S9 (8V)
<b>FLUSH BOXES</b>	ref.8851 115x114x45	ref.8852 115x138x45	ref.8854 115x185x45	ref.8855 115x233x45	ref.8856 115x280x45	ref.8857 115x328x45	ref.8858 115x375x45	ref.8982 115x420,5x45

If the configuration calls for more than one panel, a connection cable ref.2541 between them is needed (1 cable for each additional panel). They can be joined laterally within the same series by means of a joining bolts set (ref.8829).

## 2. POWER SUP./SWITCHER/DECODER

- 4830 **POWER SUPPLY 18Vdc/3,5A**  
To power the system. 1 power supply is required for each 40 monitors or each 80 telephones. DIN6 format.
- 4812 **POWER SUPPLY 18Vdc/1,5A**  
For additional monitors in homes. 1 power supply is required for every 2 additional monitors in the apartment. DIN6 format.
- 4810 **POWER SUPPLY 18Vdc/1,5A-12Vac/1,5A**
- 4802 **POWER SUPPLY 12Vac/1A**
- 4800 **POWER SUPPLY 12Vac/1,5A**
- 1021 **EMERGENCY MODULE 18Vdc**  
For operation in the event of power cuts. Requires 2 lead acid batteries 12V/2,2A.
- 2450 **VDS VIDEO SWITCHER**  
For installations with 2 video accesses (without guard unit).
- 3265 **VDS TESTER**  
For programming and checking the works in a faster, more convenient and efficient way.



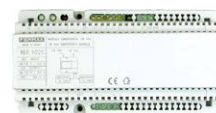
ref.4830



ref.4812



ref.4800



ref.1021



ref.2450

### COMBINATION WITH OTHER SYSTEMS

- 2409 **VDS/MDS DECODER**  
For condominiums where a VDS system is combined in apartment internal blocks (I.B.) with an MDS system at general entrances (G.E.). 1 decoder is required per apartment block. At video installation, one distributor (ref.2448) and/or a switcher (ref.2450) is required.

	VDS Audio I.B.	VDS Video I.B.
MDS Audio G.E.	2409 VDS Decoder	2409 VDS Decoder
MDS Video G.E.	2409 VDS Decoder 2448 Video Distributor	2409 VDS Decoder 2448 Video Distributor 2450 Switcher

## 3. DOOR LOCK RELEASE

### UNIVERSAL LOCK RELEASE. MULTIVOLTAGE 12Vac/12Vdc

- 67501 **UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc**
- 6750 **UNIV. MECHANISM 990N MAX 10-24Vac/dc**
- 6752 **UNIV. MECHANISM 990A MAX 10-24Vac/dc**  
Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893).

### A/C ELECTRIC LOCK (Vac).

A power supply ref.4800 (12Vac/1,5A) or Vac door lock release activator (ref.3264) is required.

- 30711 **LOCK RELEASE 540N-S MAX**  
Normal functioning and small shield. 12Vac.
- 1821 **LOCK RELEASE 540Ab-S MAX**  
Automatic functioning and small shield. 12Vac.
- 3264 **AC ELECTRIC LOCK COMMANDER**  
Maximum current: 1 Ampere.

### D/C ELECTRIC LOCK (Vdc).

- 30701 **LOCK RELEASE 540N-412-S MAX**  
Normal functioning and small shield. 12Vdc.
- 1820 **LOCK RELEASE 540Ab-412-S MAX**  
Sliding automatic functioning and small shield. 12Vdc.



540

990

540 Series Consumption		
N,A	12Vac	980mA
N-412	12Vdc	260mA

990 Series Consumption		
N,A	12Vac	250mA
	12Vdc	280mA

## 4. GUARD UNIT

### 2536 VDS CITYMAX GUARD UNIT

3 operating modes:

- Day mode: receives calls from any access and from the apartments.
- Auto mode: calls from the panel are received at the guard unit and apartments.
- Night mode: only calls from guard unit to apartments are allowed.

### 2492 VDS GUARD UNIT CONNECTION MODULE

For installations with outdoor panel. DIN10 format.



ref.2536

## 5. MONITORS AND TELEPHONES

All VDS models include door opener button as standard and are suitable for guard unit. They must be programmed with the number of the home in which they are installed.

### VEO MONITOR

#### 9401 VDS COLOUR VEO MONITOR

#### 9402 VDS VEO CONNECTOR

#### 9410 VEO DESKTOP SUPPORT



ref.9401



ref.9410

### SMILE MONITOR

#### 6545 VDS 3,5" SMILE MONITOR

#### 6558 VDS 3,5" ABSOLUTE WHITE SMILE MONITOR

#### 6563 VDS 3,5" SILVER SMILE MONITOR

#### 6564 VDS 3,5" BLACK SMILE MONITOR



ref.6545



ref.6558



ref.6563



ref.6564

#### 6550 VDS 7" SMILE MONITOR

#### 6575 VDS 7" SMILE TOUCH MONITOR

#### 6555 VDS 7" ABSOLUTE WHITE SMILE MONITOR

#### 6556 VDS 7" SILVER SMILE MONITOR

#### 6557 VDS 7" BLACK SMILE MONITOR



ref.6556



ref.6550



ref.6557

#### 6565 VDS WHITE SMILE CONNECTOR

#### 6548 VDS SILVER SMILE CONNECTOR

#### 6567 VDS BLACK SMILE CONNECTOR

#### 6547 3,5" WHITE SMILE DECORATIVE FRAME

#### 6570 3,5" SILVER SMILE DECORATIVE FRAME

#### 6571 3,5" BLACK SMILE DECORATIVE FRAME

#### 6546 3,5" SMILE FLUSH BOX



ref.6545+ref.6547



# VDS

6552	7" WHITE SMILE DECORATIVE FRAME	
6559	7" SILVER SMILE DECORATIVE FRAME	
6560	7" BLACK SMILE DECORATIVE FRAME	
6551	7" SMILE FLUSH BOX	

6566 SMILE MONITOR DESKTOP SUPPORT  
For 3,5" and 7" Smile monitors.



ref.6550+ref.6552



ref.6550+ref.6566

## LOFT MONITOR

3311	VDS B/W LOFT MONITOR
3305	VDS COLOUR LOFT MONITOR
3299	VDS COLOUR LOFT MEMORY MONITOR
3314	VDS LOFT CONNECTOR
3325	VDS LOFT DESKTOP CONNECTOR
3384	VDS LOFT CONNECTOR WITH DECORATIVE FRAME
3441	LOFT HANDSET WITH INDUCTION LOOP
3386	DECORATIVE FRAME



ref.3305



ref.3384  
250x240

## iLOFT MONITOR

Flush-mounted model:

5620	VDS iLOFT MONITOR
5630	iLOFT FLUSH BOX. 108x158x45
5631	CRYSTAL iLOFT FRAME. 189x256x6

Surface model:

5606	VDS SURFACE iLOFT PURE MONITOR
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Colour covers (only iLOFT model):

5633	SILVER COVER	
5634	BLACK COVER	
5635	GOLD COVER	



ref.5620



ref.5631



ref.5633



ref.5634



ref.5635

## VIDEO DISTRIBUTORS

It is recommended to carry out all video signal distribution by means of distributors.

2448	2 WAYS VIDEO DISTRIBUTOR
2449	4 WAYS VIDEO DISTRIBUTOR
3260	2 WAYS VIDEO MINI DISTRIBUTOR
3262	4 WAYS VIDEO MINI DISTRIBUTOR

Compact sized distributor (44x44x16) designed to be fitted in appliance cabinets and 50mm standard junction boxes. Recommended in installations without coax cable.



ref.2448



ref.3260

LOFT TELEPHONE

- 3390 VDS BASIC LOFT TELEPHONE


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- 3391 VDS EXTRA LOFT TELEPHONE

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- 3380 DECORATIVE FRAME. 200x240

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- 3441 LOFT HANDSET WITH INDUCTION LOOP 

---

- 3749 DESKTOP SUPPORT

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BASIC EXTRA DECORATIVE FRAME

ILOFT TELEPHONE

- 5601 VDS iLOFT TELEPHONE

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- 5636 VDS iLOFT TELEPHONE DESKTOP SUPPORT

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ref.5601 ref.3388 ref.3389

UNIVERSAL FRAMES

- 3388 UNIVERSAL FRAME. 120x240

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- 3389 UNIVERSAL LARGE FRAME. 210x240

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6. VDS ACCESSORIES

APPLICATION	USE	NECESSARY EQUIPMENT
TO OPEN A SECOND DOOR	To open a door other than the one where the panel is from the telephone or monitor (for example, a rear door or a 2nd security door).	<ul style="list-style-type: none"> <li>• Relay (ref.2013).</li> <li>• Additional button on the telephone or monitor*.</li> <li>• Power supply (ref.4800).</li> </ul>
STAIR LIGHTING CONTROL	To activate the stair light timer from the telephone or monitor.	<ul style="list-style-type: none"> <li>• Additional button on the telephone or monitor*.</li> <li>• Relay (ref.2013).</li> </ul>
ACTIVATING A BELL FOR ADDITIONAL LIGHT WHEN A CALL IS RECEIVED	For places with excessive ambient noise or for people with auditive disabilities.	<ul style="list-style-type: none"> <li>• Activator (ref.2438).</li> </ul>
ACTIVATING A BELL, LIGHT OR DOOR FOR A CONSIDERABLE LENGTH OF TIME	To activate a device automatically when a call is received or manually by means of an additional button but for a pre-established time.	<ul style="list-style-type: none"> <li>• Timer (ref.29001).</li> <li>• Additional button on the telephone or monitor if the activation is manual*.</li> </ul>
HEARING THE CALL FROM ANOTHER PLACE THAN WHERE TELEPHONE IS	When it is necessary to send the call sound to different parts of the home or business premises.	<ul style="list-style-type: none"> <li>• Call extender (ref.2040) for electronic call.</li> </ul>
VIEW FROM A SECOND CAMERA	To view a different place from that seen from the video camera on the door entry panel (rear of the house, etc.).	<ul style="list-style-type: none"> <li>• As standard in Smile monitors.</li> <li>• Selector-changer (ref.2450) and camera kit for VDS system. Possible to expand up to 8 cameras with the selector ref.2472.</li> <li>• 2 additional buttons on the monitor.</li> </ul>
<b>OTHER OPTIONS</b>		
TO RELEASE 2 ELECTRIC LOCKS AT THE SAME TIME	When a security door is installed in front of the main door and both need to be opened at the same time.	<ul style="list-style-type: none"> <li>• Relay (ref.2013).</li> <li>• Power supply (ref.4800).</li> <li>• Automatic lock release (ref.3069).</li> </ul>
TO ACTIVATE A LOCK RELEASE BY MEANS OF AN EXIT BUTTON	To open the door from a different place to where the telephone is. To open a door or security door that does not have a handle from inside the hallway.	<ul style="list-style-type: none"> <li>• Does not require any special equipment. For VDS systems, connect the button between the corresponding exit terminals of the outdoor panel amplifier.</li> </ul>

\*It is necessary to add a wire in all the installation for each additional function.

4545 TELEPHONE INTERFACE

Installed at home and connected to the telephone, it allows for the communication with the outdoor panel as well as opening the door remotely from any conventional or wireless telephone at home. It allows as well to forward the call to one or two external land lines or mobile telephones.



ref.4545

## ADDITIONAL FUNCTIONS

### 2013 2A ADITIONAL FUNCTIONS RELAY

Allows for the remote activation of electrical devices using an additional button on the telephone or monitor: switch on the stair light, open the garage, open a 2<sup>nd</sup> door, etc.



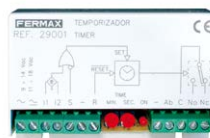
ref.2013

### 3491 DIN RAIL RELAY 12Vdc/12A

### 88101 DOUBLE CONTACT RELAY 18Vdc

### 29001 TIMER

Allows for the activation of a device for a given time (programmable from 0 to 6 minutes or 0 to 60 seconds). The activation can be automatic when a call is received or by means of a specific button on the telephone or monitor.



ref.29001

## VIDEO ACCESSORIES

It is possible to expand video door entry installations with a 2<sup>nd</sup> overhead camera and select and view it from the monitor (expandable up to 8 cameras).

### 2450 VDS VIDEO SELECTOR/SWITCHER

Necessary in VDS video entry system with 2 video entry panels.

### 2472 8 CAMERAS SELECTOR

Allows for the control of up to 8 additional cameras from the monitor (F1 and F2 buttons).



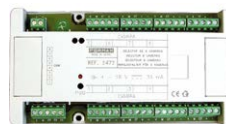
ref.2450

### 4614 2<sup>nd</sup> CAMERA SELECTOR

Allows for the selection of a 2<sup>nd</sup> camera by means of F1 push button.

### 4110 VIDEO AMPLIFIER

To regenerate the video signal of the coaxial in installations with cable distances of more than 200 metres.

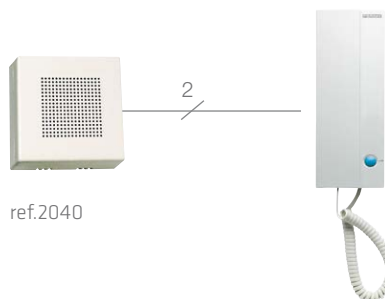


ref.2472

## CALL ACCESSORIES

### 2040 ELECTRONIC CALL EXTENSION BELL

Equipment that receives the door entry system call tone, allowing it to be heard in any place where the call extender is located. It is possible to connect 1 for each monitor or handset.



ref.2040

### 2438 VDS LIGHT OR BUZZER ACTIVATOR

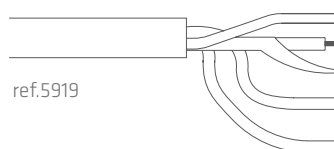
Allows for the activation of high powered devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 for each monitor or handset.

## CABLES

All cables are supplied in 100 metres rolls. Orders must be multiples of 100.

### 5919 VIDEO BUS CABLE. 1MTR

3 wires of 1mm<sup>2</sup> + 1 coax 75 Ohms.



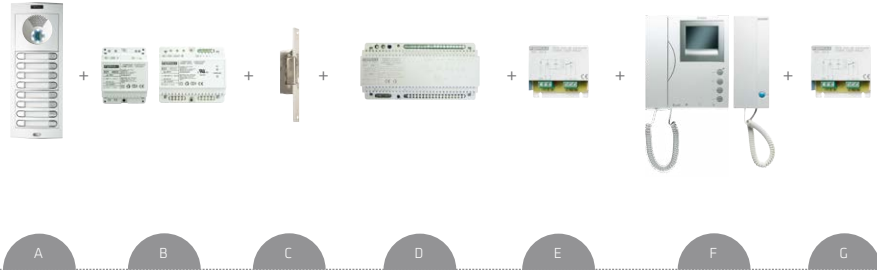
ref.5919

# ANALOGUE

VIDEO: 7 WIRES + 1 VIDEO COAX + N (1 wire per home)  
 AUDIO: 4 WIRES + N (1 wire per home)

## COMPOSITION

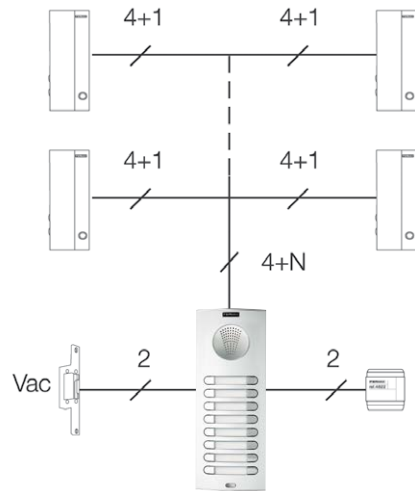
- A. Outdoor panel
- B. Power supply (audio/video)
- C. Door lock release
- D. Switcher (2 to 7 accesses)
- E. Distributor (video)
- F. Monitors and telephones
- G. Accessories



## FEATURES

- The analogue system uses 4 common wires for the entire installation plus 1 call (or call return) wire per home.
- For video installations, 3+coax (RG59) additional wires are required.
- Recommended in small/medium-sized buildings, 7 accesses maximum and guard unit.
- The AMPLIFIER includes volume controls, both panel-monitor and monitor-panel so the installer can obtain the optimum volume.
- Includes COLOUR CAMERA as standard.

### AUDIO



## 1. OUTDOOR PANEL

### PUSH BUTTONS

(See combinations at Panels section).

- Select the style of panel and the combination of buttons according to the number of apartments. 4+N ANALOGUE amplifier required.
- Select the corresponding flush box or panel accessory as required.



CITYLINE



SKYLINE



CITYLINE CLASSIC



MARINE

## 2. POWER SUPPLY / SWITCHER

### GENERAL POWER SUPPLY

4802 AUDIO POWER SUPPLY 12Vac/1A

4800 AUDIO POWER SUPPLY 12Vac/1,5A

Supplies the audio system. One unit required for each outdoor panel. DIN4 format.

4830 POWER SUPPLY 18Vdc/3,5A

Supplies the video system for video entry installations. One unit required for every 40 apartments. DIN6 format.



ref.4800



ref.4830

# ANALOGUE

## 4812 POWER SUPPLY 18Vdc/1,5A

For monitor extensions in homes. One power supply (ref.4812) is required for every 2 additional monitors. DIN6 format.



ref.4812

## EMERGENCY POWER SUPPLY

### 8791 EMERGENCY AUDIO POWER SUPPLY

Supplies the audio system when the electricity supply fails. Normal output 12 Vac/1.5A. Emergency output 12Vdc/1.5A.

Includes a Ni-Cd battery that guarantees the functioning of the audio system and over 400 lock-release services. One unit is required for each outdoor panel. DIN10 format.



ref.8791

### 1021 EMERGENCY BATTERY ADAPTOR. 18Vdc

For power supply ref.4830. Requires two 12V batteries.



ref.1021

## SWITCHERS

### 8809 VOLTAGE DISTRIBUTOR

Used with power supply ref.4800 or ref.8791 to power the switcher (ref.8811 or ref.8812) in installations with 2 accesses. Power is 12Vac. Outputs 12 Vac/1.5 A and 9Vdc/0.3A. DIN6 Format.

### 88231 POWER SUPPLY/VOLTAGE DISTRIBUTOR

Necessary when the installation contains automatic switchers or guard unit. In these cases, it replaces power supply (ref.4800). Outputs 12Vac/1,5A and 12 Vdc/0,5A. DIN6 format.

### 8811 AUDIO AUTOMATIC SWITCHER

1 for each audio door-entry access. Up to 7 accesses.

### 8812 VIDEO AUTOMATIC SWITCHER

### 8819 1/W AUDIO AUTOMATIC SWITCHER

To connect up to five 1/W audio panels. A switcher is required for every 2 additional panels. From 3 to 5 additional panels, a switcher is required for each panel.

#### BUILDING WITH 2 ACCESSES

- 1 Power supply/distributor (ref.88231) for the main access.
- 1 Audio switcher (ref.8811) or video switcher (ref.8812).

#### MORE THAN 2 ACCESSES

- 1 Power supply/distributor ref.88231 for the first accesses.
- 1 Audio power supply (ref.4800) for each one of the other accesses.
- 1 Audio switcher (ref.8811) or video switcher (ref.8812) for each access.

In case of video door entry system, add 1 power supply (ref.4830) each 40 apartments.



ref.8811

## 3. DOOR LOCK RELEASE

### 30711 LOCK RELEASE 540N-S MAX

Normal functioning and small shield. 12Vac.

### 1821 LOCK RELEASE 540Ab-S MAX

Sliding automatic functioning and small shield. 12Vac.



#### 540 Series consumption

N,A	12Vac	980mA
N-412	12Vdc	260mA

## 4. GUARD UNIT

The CITY guard unit consists of a telephone and push button modules which are configured depending on the number of apartments. Check with the *International Sales Department* for the required model for the installation.

84601 CITYCOM GUARD UNIT TELEPHONE



## 5. MONITORS AND TELEPHONES

### LOFT TELEPHONE

3393 BASIC LOFT TELEPHONE

3394 EXTRA LOFT TELEPHONE

3399 UNIVERSAL LOFT TELEPHONE

For the replacement of most of the standard telephones from other brands (see equivalence table included in the equipment) in both telephones with buzzer call as with electronic call. 4 common call wires.

3380 DECORATIVE FRAME. 200x240

3441 LOFT HANDSET WITH INDUCTION LOOP 

3749 DESKTOP SUPPORT



BASIC  
UNIVERSAL

EXTRA

DECORATIVE  
FRAME

### CITYMAX TELEPHONE

80447 BASIC CITYMAX TELEPHONE (WHITE)

8039 UNIVERSAL CITYMAX TELEPHONE (PEARL)

2127 CITYMAX DECORATIVE FRAME (PEARL)

2130 CITYMAX LARGE DECORATIVE FRAME (PEARL)



BASIC  
(WHITE)

UNIVERSAL  
(PEARL)

### LOFT MONITOR

3310 B/W LOFT MONITOR

3307 LOFT COLOUR MONITOR

3315 LOFT CONNECTOR

3324 DESKTOP SUPPORT CONNECTOR

3441 LOFT HANDSET W/INDUCTION LOOP



ref.3307

# ANALOGUE

## UNIVERSAL FRAMES

- 3388      UNIVERSAL FRAME. 120x240

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- 3389      LARGE UNIVERSAL FRAME. 210x240

## VIDEO DISTRIBUTORS

- 2448      2 WAYS VIDEO DISTRIBUTOR

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- 2449      4 WAYS VIDEO DISTRIBUTOR



ref.3388



ref.3389



ref.2448

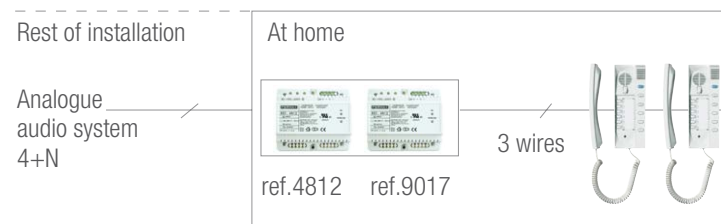
## 6. INTERCOMMUNICATION. PALACE SYSTEM

### PALACE BUS SYSTEM (SECRET)

Allows internal communication between terminals in the same home. Maximum: up to 12 terminals. 1 power supply (ref.4812) is required per home and a multiway switcher (ref.9017) to distinguish indoor/outdoor conversation. Maximum distance: 100 mtrs.



ref.8084



- 8084      BUS PALACE TELEPHONE

---

- 9017      BUS MULTIWAY SWITCHER

---

- 88039    BUS MULTIWAY POWER SUPPLY

For intercom installations without outdoor panel.

## 6. 4+N ACCESSORIES

APPLICATION	USE	NECESSARY EQUIPMENT
TO OPEN A SECOND DOOR	To open from the telephone or monitor a different door to where the outdoor panel is (for example, a rear door or a second security door).	<ul style="list-style-type: none"> <li>• Relay (ref.2013).</li> <li>• Additional button on the telephone or monitor*.</li> <li>• Power supply (ref.4800).</li> <li>• Lock release mod.450A-S (ref.3069).</li> </ul>
CONTROL STAIR LIGHTING	To activate the stair light timer from the telephone or monitor.	<ul style="list-style-type: none"> <li>• Additional button on the telephone or monitor*.</li> <li>• Relay (ref.2013).</li> </ul>
ACTIVATING AN ADDITIONAL BELL OR LIGHT WHEN A CALL IS RECEIVED	For places with excessive ambient noise or for people with auditive disabilities.	• Activator ref.8053. Connection between 3 and 4 monitors/telephones of the house.
ACTIVATING A BELL, LIGHT OR DOOR FOR A CONSIDERABLE LENGTH OF TIME	To activate a device automatically when a call is received or manually by means of an additional button but for a pre-established time.	<ul style="list-style-type: none"> <li>• Timer (ref.29001).</li> <li>• Additional button on the telephone or monitor if the activation is manual*.</li> </ul>
HEARING THE CALL FROM ANOTHER PLACE WHERE THE TELEPHONE IS PLACED	When it is necessary to send the call sound to different parts of the home or business premises.	• Call extender (ref.2040) for conventional electronic call system.
VIEW FROM A SECOND CAMERA	To view a different place from that seen from the video camera on the street panel (rear of the house, etc.).	<ul style="list-style-type: none"> <li>• Image selector (ref.4614) and camera kit.</li> <li>• Additional button on the telephone/monitor is required*.</li> </ul>
<b>OTHER OPTIONS</b>		
TO RELEASE 2 ELECTRIC LOCKS AT THE SAME TIME	When a security door is installed in front of the main door and both need to be opened at the same time.	<ul style="list-style-type: none"> <li>• Relay (ref.2013).</li> <li>• Power supply (ref.4800).</li> <li>• Automatic lock release (ref.3069).</li> </ul>
LOCK RELEASE BY MEANS OF AN EXIT BUTTON	To open the door from a different place to where the telephone is. To open a door or security door that does not have a handle from inside the hallway.	• No special equipment is required. For conventional system, connect the push button between terminals 1 and 3 of the panel amplifier (or phone amplifier).

\*It is necessary to add 1 wire in all the installation for every additional function.

## 4545 TELEPHONE INTERFACE

Installed at home and connected to the telephone, it allows the communication with the outdoor panel as well as opening the door remotely from any conventional or wireless telephone at home. It also allows for the forwarding of the call to one or two external land lines or mobile telephones.



ref.4545

## 4+N PANEL ACCESSORIES

## 2065 GENERAL CALL AMPLIFIER

Installed in the interior of the outdoor panel, increases the call ring volume in all the terminals of the installation.



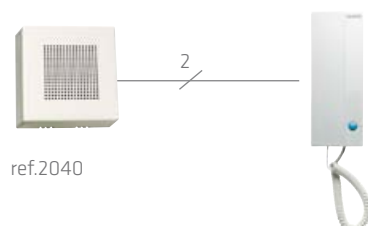
ref.2065

## 1170 32 LANGUAGES VOICE SYNTHETISER

## CALL ACCESSORIES

## 2040 ELECTRONIC CALL EXTENSION

Device that receives the call ring of the audio door entry system. Allows for the ringtone to be heard anywhere where the device is installed. Possible to connect 1 for each telephone/monitor.



ref.2040



# ANALOGUE

## 8053 4+N/MDS LIGHT OR BUZZER COMMANDER

Allows to activate high-power devices or indicators when a call is received: bells, sirens, light bulbs, etc. Possible to connect 1 for each monitor/telephone.



ref.8053

## 2340 4+N/MDS CALL MULTIPLIER

Device which increases the call volume in installations with more than 5 telephones or monitors at home. Power supply 18Vdc (ref.4812).



ref.2340

## ADDITIONAL FUNCTIONS

### 2013 2A ADDITIONAL FUNCTIONS RELAY

Allows for the remote activation of electrical devices using an additional button on the telephone or monitor: switch on the stair light, open the garage, open a 2<sup>nd</sup> door, etc. Activation by 12Vdc, 12Vac or 18Vdc.



ref.2013

### 3491 DIN RAIL RELAY 12Vdc/12A

### 88101 DOUBLE CONTACT RELAY 18Vdc

### 29001 TIMER

Allows for the activation of a device for a given time (programmable from 0 to 6 minutes or 0 to 60 seconds). The activation can be automatic when a call is received or by means of a specific button on the telephone or monitor.



ref.29001

## COMBINATION WITH OTHER SYSTEMS

### 1300 4+N AUDIO MINIDECODER

Necessary to make enclosures in interior blocks already installed in conventional system with a maximum of up to 40 homes per 4+N block. 1 decoder every 4 homes + 1 automatic switcher ref.8811 or ref.8812 + 1 power supply/distributor 230Vac-12Vac/dc (ref.88231) + 1 timer (ref.29001).



ref.1300

## VIDEO ACCESSORIES

### 2472 8-CAMERAS SELECTOR

Allows for the control of up to 8 cameras from the monitor by means of F1 and F2 push buttons.

### 4614 2<sup>nd</sup> CAMERA SELECTOR

Allows by means of F1 or F2 button, to add an extra camera.

### 4110 VIDEO AMPLIFIER

To regenerate the video signal of the coaxial.



ref.2472

## FEATURES

- MDS (Multiplexed Digital System) is a digital audio and video door entry system of maximum performance and great capacity.
- Allows for the management of buildings and condominiums of any size.
- AUDIO AND VIDEO DOOR ENTRY SYSTEM.
- INTERCOMMUNICATION between accesses, homes, guard units and lifts.
- ACCESS MANAGEMENT AND CONTROL according to authorisations to restricted areas. Each user has an identification code for all accesses.
- SECURITY centralised in the guard unit, for protection of common areas and control of incidents in the homes.
- AUTOMATION of functions and services of the apartment block or condominium (sprinklers, lights, swimming-pool, etc).
- MDS is a system with simplified BUS installation ①.
- The Central Unit ② incorporates all the electronics for management and control of the system.
- The floor MDS decoders and MDS distributors ③ connect the homes to the installation BUS and act as isolators.
- Home to outdoor panel communication is private.

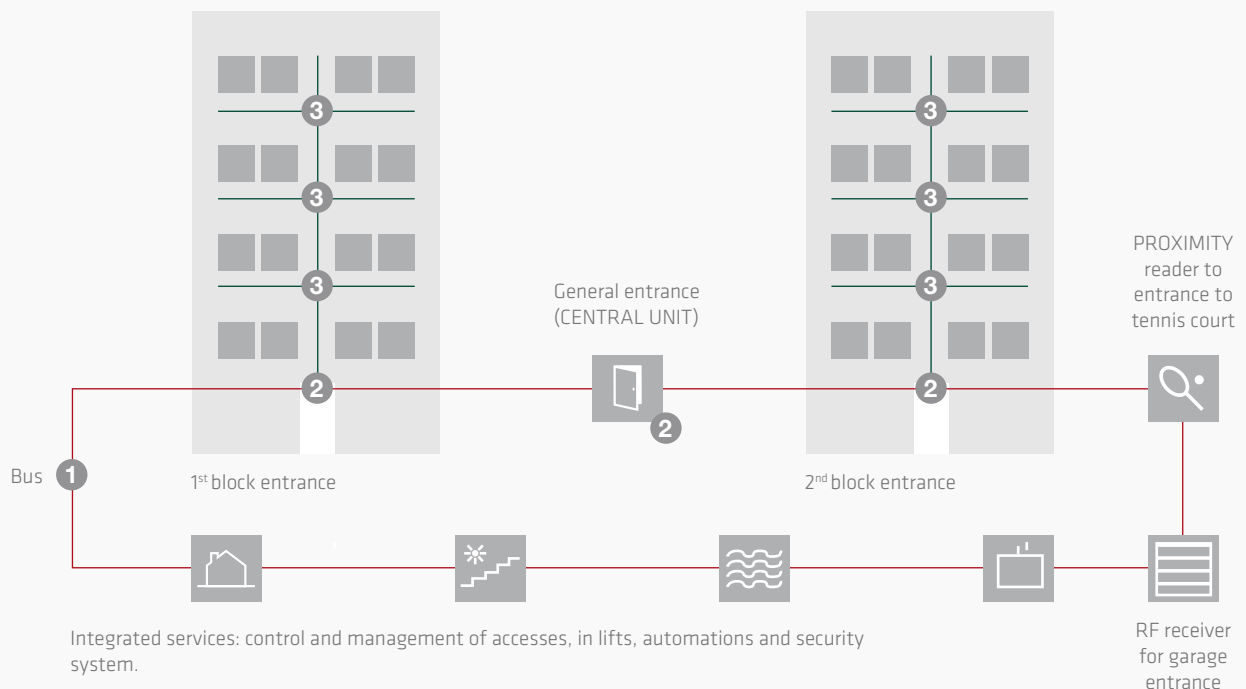
## MDS SYSTEMS OPTIONS

### At General entrances:

- MDS DIGITAL: Requires a Central Unit (C.U. Capacity: 9.999 homes, 32 accesses/guard units). Up to 63 Central Units can be connected. Incorporates all the MDS services.
- MDS DIRECT: Does not require a Central Unit. Includes access control via keypad. Capacity: Up to 9.999 homes in individual blocks and 99 homes in internal apartment blocks.

### At interior block:

In the case of housing complexes, the flexibility of MDS allows for the combination of general MDS entrances and internal apartment blocks with VDS or conventional 4+N audio or video door entry system or with individual residences.



## MDS DIGITAL

A MDS DIGITAL system at general entrances combined with VDS system at interior blocks is composed by:



## 1. OUTDOOR PANEL

Panel with KEYPAD + ELECTRONIC DIRECTORY.  
A Central Unit is required.

### SKYLINE (SEE SKYLINE PANEL SECTION)

It allows for the creation of any MDS DIGITAL panel combination with other access control or informative accessories: cardholder, proximity, fingerprint, OneToOne, etc. 4+N amplifier is required.

### URBANLINE

7482 VIDEO URBANLINE PANEL S7

7481 AUDIO URBANLINE PANEL S7

8857 FLUSH BOX S7

### CITYLINE

7297 MDS COLOUR DIGITAL VIDEO CITY PANEL S7

7301 MDS DIGITAL AUDIO CITY PANEL S7

7310 DIRECTORY CITY PANEL S7

8857 FLUSH BOX S7

7067 SURFACE BOX S7

8257 DECORATIVE FRAME S7

8829 JOINING BOLTS SET

### MARINE

5470 MDS DIGITAL VIDEO PANEL ST3

5467 MDS DIGITAL AUDIO PANEL ST3

5471 DIRECTORY PANEL ST3

4643 MARINE FLUSH BOX ST3

4647 MARINE SURFACE BOX ST3

2289 JOINING BOLTS SET



MDS Digital SKYLINE panel with OneToOne



MDS Digital SKYLINE panel with proximity



ref.7482



ref.7481



ref.7297



ref.7310

Panel dimensions S7: 130x341  
Flush box dimensions S7: 115x328x45



ref.5470



ref.5471

Panel dimensions ST3: 150x360  
Flush box dimensions ST3: 130x340x55

## 2. ACCESS CONTROL READERS

Access control readers are considered by the Central Unit as just another access. Every central Unit (ref.2405) allows for the management of up to 1.020 users of access control.

The panel is supplied with the corresponding flush box. No switcher is required.

### CITYLINE

Panel S1: 130x128 / Flush box S1 (ref.8948): 115x114x45.

6992 CITY PROXIMITY READER

6994 MDS CITY KEYPAD

### MARINE

Panel ST1:150x180 / Flush box ST1 (ref.4641): 130X160X55.

5472 MARINE PROXIMITY READER

4696 MDS MARINE KEYPAD

### PROXIMITY IDENTIFIERS

23361 EM FERMAX PROXIMITY CARD

2336 EM PROXIMITY CARD W/MAGNETIC BAND

4515 PROXIMITY KEYRING

RF-Wiegand receivers and fingerprint readers need a door controller (ref.4420) for each access.

4420 DOOR CONTROLLER

### RADIOFREQUENCY

5266 AXESKEY RF-WIEGAND 12VDC RECEIVER

5259 MINI KEYSINGLE RF EMITTER

### FINGERPRINT WITH PROXIMITY

6935 CITYLINE FINGERPRINT READER

Includes a built-in proximity reader for major security or for independent register of users. Includes display and LEDs indicating the door opening, user's number, if the fingerprint reading is correct or not, configuration and authorisations-cancellations menu management. Includes a remote infrared keypad for programming.

5482 MARINE FINGERPRINT READER



ref.6992



ref.6994



ref.5472



ref.4696



ref.23361



ref.4515



ref.4420



ref.5266



ref.5259



ref.6935



ref.5482

## 3. GUARD UNIT

### 2537 MDS DIGITAL GUARD UNIT

Desktop support included. Allows surface installation. Includes a 4" graphic display that informs of all the events and actions of the installation: origin of call, type of call, call, call waiting, latest communication, etc.

The guard unit has 3 operation modes: day, night and mixed, and in the case of MDS Digital Installations, it can act as a panic reception center. The guard unit can communicate with any access or home, and can establish communication between any 2 points of the installation (exclusively MDS installation).



ref.2537

## 4. CENTRAL UNIT

Essential at installations with MDS Digital panels.

### 2405 1 ACCESS MDS CENTRAL UNIT

Manages up to 9.999 apartments and 1.020 access control users.

- **In individual blocks:** manages up to 32 accesses (1 of them can be audio/video). For more audio/video accesses, switcher (ref.2379) every 2 accesses will be required.

- **In condominiums:** up to 31 accesses per Central Unit if the accesses are audio/video, 2-access switchers ref.2379 will be required. Includes WINCOM PLUS software for PC configuration. Includes memory for incidents record (A.C. applications).



ref.2405

### 2379 2 ACCESSES SWITCHER

Necessary to connect more than one video panel/guard unit to C.U. Add 1 module for more than 1 additional panel/guard unit.

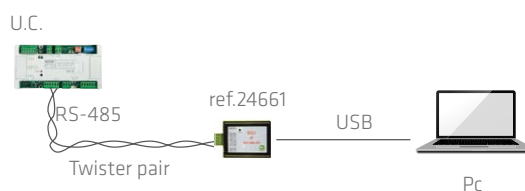


ref.2379

## PC CONNECTION ACCESSORIES

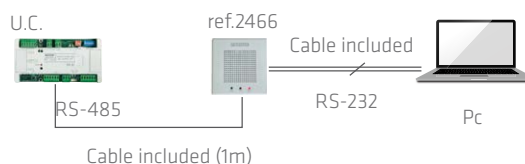
### 24661 USB TO RS-485 PC ADAPTOR

Enables Central Unit programming by PC in FXL network. PC Connection by USB.



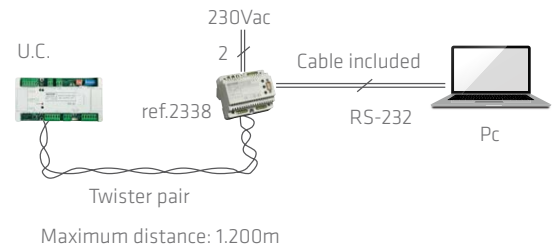
### 2466 PC DECODER PROGRAMMING MODULE

Enables Central Unit programming by PC (serial port).

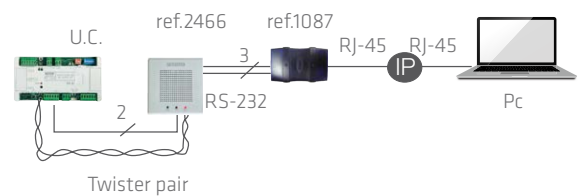


**2338 RS-232 TO RS-485 PC ADAPTOR**

Allows Central Unit programming in FXL network. DIN. RS-232 connection to PC. Allows for the connection of 1 modem for remote management by telephone. Maximum distance to Central Unit: 1.200m.

**1087 IP REMOTE MANAGEMENT MODULE**

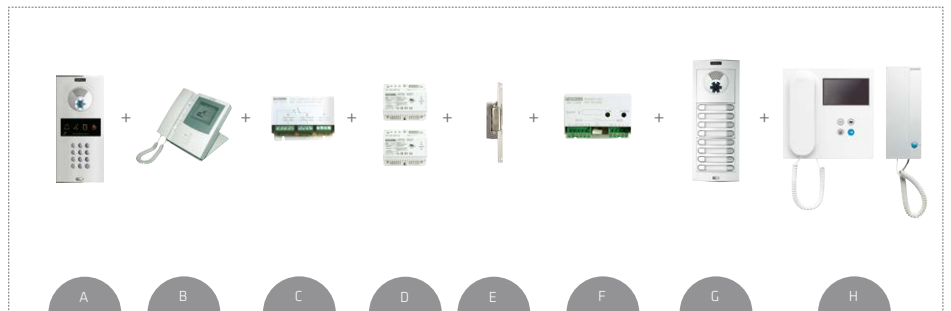
It's connected to the Central Unit by means of the adaptor ref.2466. Allows communication between the management computer and the installation using the computer network (Ethernet), avoiding additional wiring.

**MDS DIRECT/CITY**

A MDS DIRECT system in general entrances combined with a VDS system at interior blocks is composed by:

**COMPOSITION**

- A. MDS Direct outdoor panel
- B. Guard Unit
- C. Switcher
- D. Power supply (audio+video)
- E. Door lock release (VDC)
- F. VDS/MDS Decoder
- G. VDS block panel
- H. Monitors and telephones

**1. OUTDOOR PANEL****MDS DIRECT****CITYLINE**

Central Unit not required. The panel includes KEYPAD and requires adding a cardholder or directory.

Capacity:

- General Entrance: 9.999 apartments, 5 accesses and Guard Unit.
- Interior Block: 99 apartments and 9 accesses.
- Individual Block:
  - a) 99 apartments, 5 accesses and Guard Unit.
  - b) 99 apartments and accesses.

**7287 MDS DIRECT VIDEO CITY PANEL S6****7318 DIRECTORY CITY PANEL S6****8856 FLUSH BOX S6****7066 SURFACE BOX S6**

ref.7287



ref.7318

Panel dimensions S6: 130x294  
Flush box dimensions S6: 115x280x45

# MDS DIRECT / CITY

## MDS CITY

Push buttons panel for access to internal blocks combined with MDS DIRECT or DIGITAL systems in general entrances. Capacity:

- Interior blocks: 99 apartments and 9 accesses.
- Individual block:
  - a) 99 apartments, 5 accesses and central unit.
  - b) 99 apartments and 9 accesses.

The SKYLINE frames and module combinations will depend on the number of apartments in the building. Required modules to configure an MDS CITY panel:

- MDS V SKYLINE digitiser.
- 4+N W SKYLINE amplifier.
- VDS SKYLINE push buttons modules.



SKYLINE

NOTE: For the programming of the installation with more than 1 MDS CITY panel is necessary a DIRECT KEYPAD (ref.7439).

### 7460 MDS SKYLINE DIGITISER V

#### SKYLINE (SEE SKYLINE SECTION)

Allows for the creation of any audio or video door entry panel with access control and informative displays.

## 2. SWITCHERS

### 2443 MDS DIRECT/CITY 1 ACCESS SWITCHER

One is required for each additional video panel.

## 3. GUARD UNIT

### 2532 CITYMAX GUARD UNIT MDS/DIRECT CITY

Desktop support included. Allows surface installation. The MDS DIRECT/CITY system allows for the connection to 1 Guard Unit.



ref.2443



ref.2532

## COMMON ELEMENTS FOR ALL MDS SYSTEMS

### 1. POWER SUPPLY

#### 4813 AUDIO POWER SUPPLY 12Vdc/2A

Requires: 1 unit for each Central Unit and up to 6 accesses; or 1 unit for every 10 VDS decoders or audio decoders, depending on the distance and cable cross-section used. DIN6 format.

#### 4830 VIDEO POWER SUPPLY 18Vdc/3,5A

Requires: 1 unit for each 40 monitors or 1 unit for each 4 monitors per apartment. DIN6 format.

#### 4812 VIDEO POWER SUPPLY 18Vdc/2A

To increase the number of monitors in homes. Requires: 1 unit for every 2 additional monitors per home. DIN6 format.



ref.4813



ref.4830



ref.4812

For functioning of the power unit if the electricity supply fails, it is necessary to connect it to an adapter, to which a battery is connected. Compatible with any type of standard lead acid battery.

**2060 EMERGENCY BATTERY ADAPTOR 12Vdc**

**1021 EMERGENCY BATTERY ADAPTOR 18Vdc**



ref.2060

## 2. DOOR LOCK RELEASE

For other models see Lock release section or current Lock Release catalogue.

**67501 UNIVERSAL LOCK RELEASE 990N-P22 MAX**

10-24 Vac/dc.

**6750 UNIV. MECHANISM 990N MAX 10-24Vdc/ac**

Normal operation. 12Vdc or 12Vac. Standard issue with adjustable MAX latch bolt. Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893).

**30701 LOCK RELEASE 540N-412-S MAX**

Normal operation and short shield. 12Vdc.

**3264 AC ELECTRIC LOCK COMMANDER**

Maximum current: 1 Ampere.



540

990

540 Series Consumption		
N,A	12Vac	980mA
N-412	12Vdc	260mA

990 Series Consumption		
N	12Vac	250mA
	12Vdc	280mA

## 3. MDS REPEATER / VIDEO AMPLIFIER

**2339 MDS REPEATER**

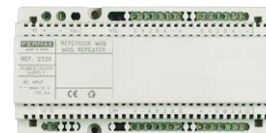
To regenerate digital BUS signal from panels or Decoders transmitted through the twisted pair wires of the installation. DIN10.

**4110 VIDEO AMPLIFIER**

To regenerate a video signal when BUS length is more than 250m. Requires an amplifier for each 250m.

**1345 FIBER OPTICS CONVERTER**

For transmission of MDS signals (audio, video and data) through a fiber optics cable (single-mode fiber with FC/PC connectors). Includes Tx, Rx and power supply.



ref.2339

## 4. COMBINATON WITH OTHER SYSTEMS

The MDS decoder allows for the connecting of the general entrance (G.E.) with interior blocks (I.B.) with other technology such as VDS or 4+N. One decoder is needed per block, except for 4+N. See tables.

**1300 4+N / MDS MINIDECODER**

Necessary for enclosures in analogue interior blocks (maximum of up to 40 homes per block). 1 decoder every 4 homes.

		4+N	
MDS	Audio G.E.	1300	MDS/4+N Decoder
		88231	Power supply distrib.
		8811	Audio Auto switcher
	Video G.E.	1300	MDS/4+N Decoder
		88231	Power supply distrib.
		8812	Video Auto switcher
	2448	Video Distributor	
	29001	Timer	



ref.1300



# MDS DIRECT / CITY

## 2409 VDS / MDS DECODER

Necessary for enclosures in VDS interior blocks already installed 1 decoder per block. Add one distributor (ref.2448) and/or switcher (ref.2450) in general video entry installations.

		VDS			
		Audio I.B.		Video I.B.	
MDS	Audio G.E.	2409	VDS Decoder	2409	VDS Decoder
	Video G.E.	2409	VDS Decoder	2409	VDS Decoder
		2448	Video Distributor	2448	Video Distributor
				2450	Switcher

## 5. MDS DECODERS / DISTRIBUTORS

Necessary elements in complete MDS installations in general entrances and interior blocks with analogue terminals (See analogue system section).

### 2424 MDS 4-WAYS AUDIO DECODER

### 2425 MDS 8-WAYS AUDIO DECODER

### 2426 4-WAYS AUDIO ISO DECODER

### 2436 4-PANELS DECODER

1 unit for every 4 panels 4+N of up to 2 push buttons. For installation in lifts or garages, in order to make calls to concierge. DIN10.

### 2466 PC DECODER PROGRAMMING MODULE PC RS-232 TO RS-485

### 24661 ADAPTOR PC USB TO RS-485

### 2418 MDS 4-WAYS VIDEO DISTRIBUTOR

### 2419 MDS 8-WAYS VIDEO DISTRIBUTOR

### 2429 8 MDS/AC+ SENSOR DECODER. DIN10

### 2430 8 MDS/AC+ RELAY DECODER. DIN10

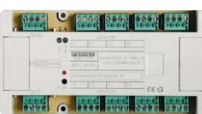
1 unit for every 8 relay outputs for activation of an electrical device of up to 2A, 250V.



ref.2424



ref.2425



ref.2436



ref.2419

## 6. CABLES

All cables are supplied in 100 metres rolls. Orders must be multiples of 100.

### 5918 DECODER-PANEL-FXL CENTRAL UNIT BUS CABLE (1M)

4 wires 1mm<sup>2</sup>+1 twisted pair shielded of 2 x 0,5 mm<sup>2</sup>.

### 5919 VIDEO BUS CABLE (1M)

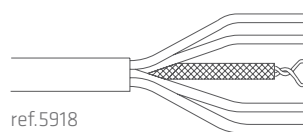
3 wires of 1mm<sup>2</sup>+1 coaxial of 75 Ohms.

### 59200 DECODER-MONITOR CONNECTION CABLE (1M)

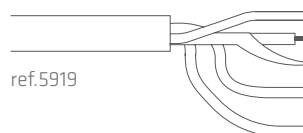
3 wires of 1mm<sup>2</sup> + 8 wires of 0,5mm<sup>2</sup>+1 coaxial of 75 Ohms.

### 5922 DECODER-TELEPHONE CONNECTION CABLE (1M)

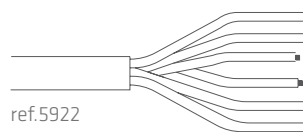
6 wires of 0,5mm<sup>2</sup>.



ref.5918



ref.5919



ref.59200

## 7. MONITORS AND TELEPHONES

Consult Analogue Section.

## FEATURES

- MDS/VDS combination is the system with the most complete functions and maximum wiring simplicity.
- It consists of a combination of:
  - MDS Digital System for General Entrances.
  - VDS Digital System for Interior Blocks.
- Its capacity is expandable:
  - From 1 to 9.999 units.
  - Up to 32 entrances or guard/managements.
  - Combined with single houses, medium or big blocks.
  - Possibility of several access control readers along the condominiums.

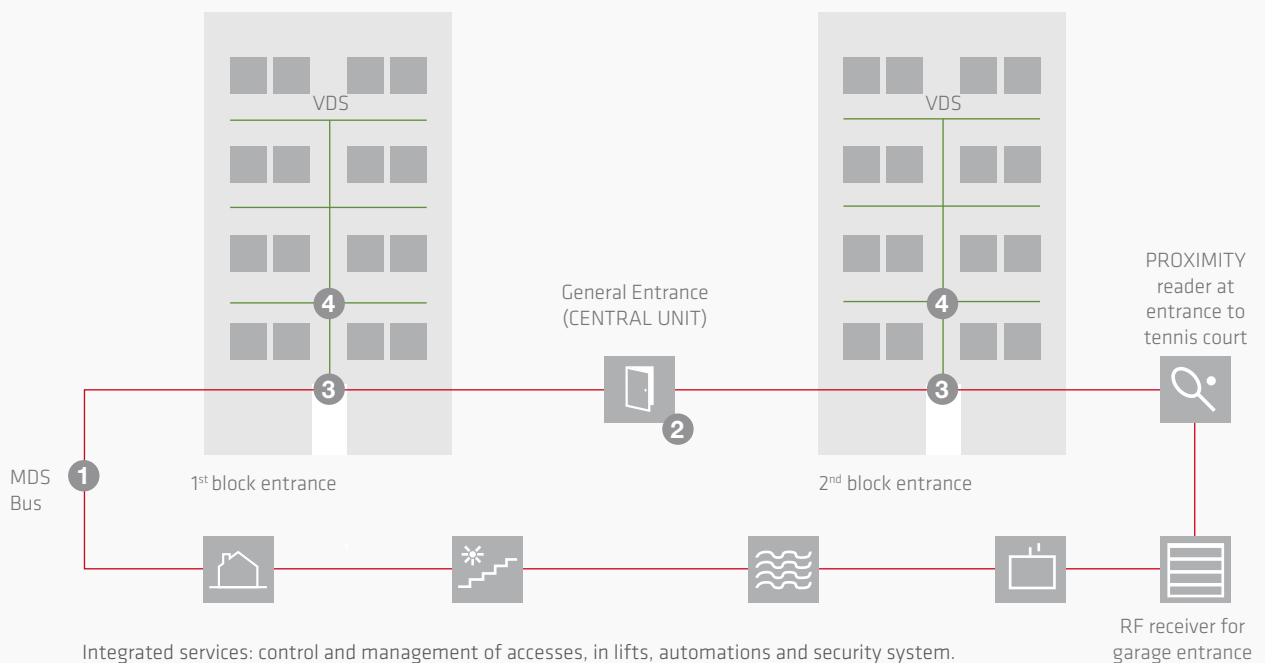
### IN MEDIUM SIZE BLOCKS INSTALLATIONS

One MDS/VDS Decoder is required **3** per block. VDS cable inside the building **4**: UTP CAT5, 5 WIRES or 3+COAX.

VDS telephones & monitors are required.

## INSTALLATION

- System with simplified MDS BUS installation **1** connecting general entrances, interior blocks and access control readers.
- **MDS AUDIO BUS**: 4 common wires + 1 common shielded twisted pair.
- **MDS VIDEO BUS**: 6 common wires + 1 common shielded twisted pair + 1 video coax cable.
- MDS Central Unit is required in general entrances. Capacity: 9.999 homes, 32 accesses/guards units. Central Unit **2** includes all the electronic elements for managing and controlling the system.
- The MDS System (MDS BUS) installed at general entrances can be combined with VDS System (UTP CAT 5, 5 WIRES or 3+COAX) in the blocks, thanks to a MDS/VDS decoder **3**. The MDS/VDS decoder (new version) allows VDS Monitors and Telephones to make additional functions as panic call to the guardian or control lift.



# MDS/VDS

MDS/VDS Digital system with medium-size interior blocks basically consists of the following elements:

## COMPOSITION

- A. Central Unit (up to 32 accesses)
- B. MDS digital entry panel
- C. Guard unit
- D. Readers
- E. Switcher
- F. Power supply (audio+video)
- G. Door lock release (VDC)
- H. MDS/VDS decoder per block
- I. VDS entry panel
- J. VDS monitors and telephones

At MDS general entrances and common accesses

A B C D E F G H I J

### IN LARGE SIZE BLOCKS INSTALLATIONS

In big interior blocks with several terminals in each floor or specific functionalities are demanded, a MDS/VDS Decoder ③ is required per floor. MDS BUS in the riser and VDS cable in each floor ④ : UTP CAT5, 5 WIRES or 3+COAX.  
VDS telephones & monitors are required.

Integrated services: control and management of accesses, in lifts, automations and security system.

RF receiver for garage entrance

MDS/VDS Digital system with big-size interior blocks basically consists of the following elements:

## COMPOSITION

- A. Central Unit (up to 32 accesses)
- B. MDS digital entry panel
- C. Guard unit
- D. Readers
- E. Switcher
- F. Power supply (audio+video)
- G. Door lock release (VDC)
- H. Central Unit (up to 32 accesses)
- I. VDS entry panel
- J. MDS/VDS decoder per block
- K. VDS monitors and telephones

At MDS general entrances and common accesses

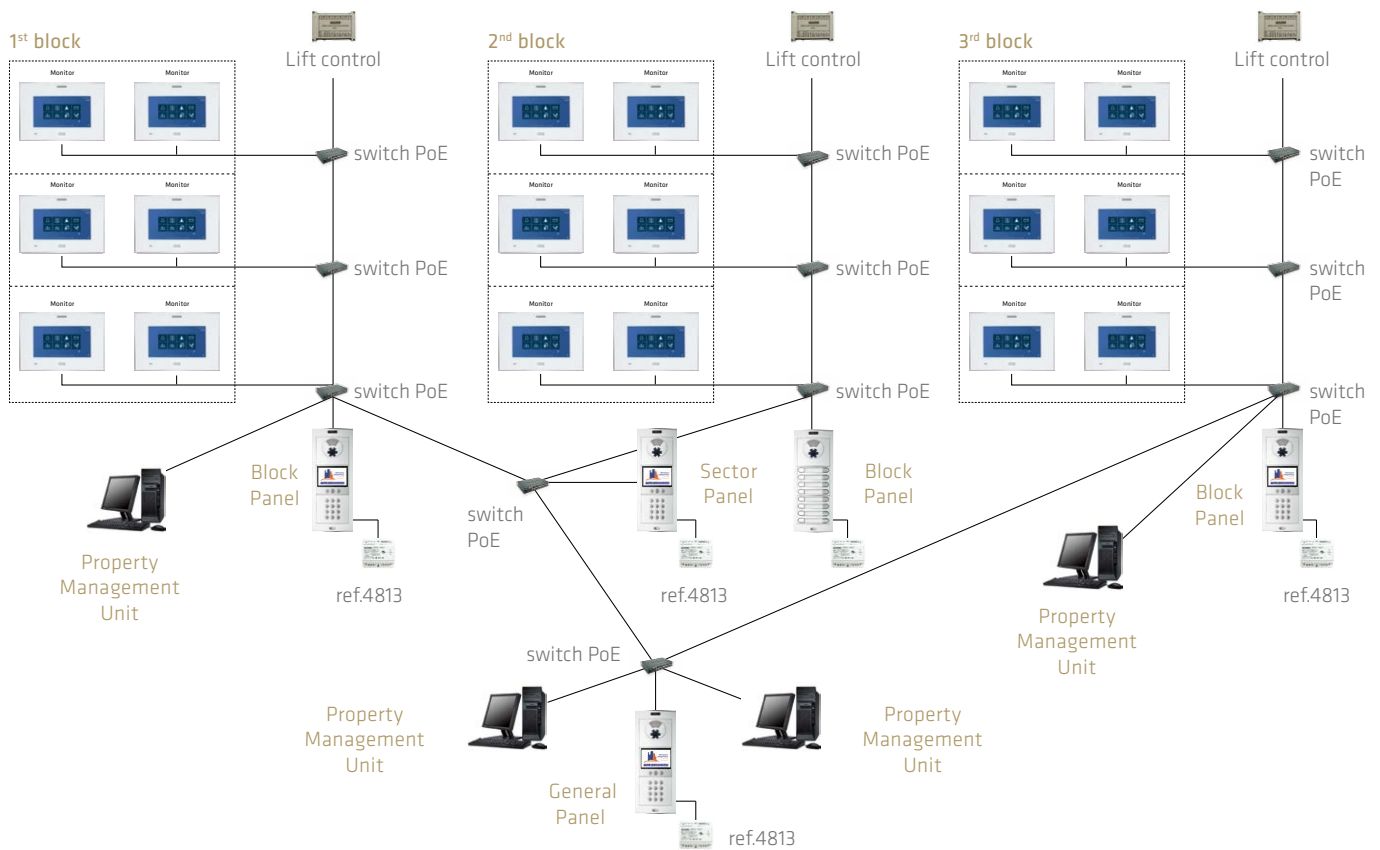
Access to building    At interior (by floor)

A B C D E F G H I J K



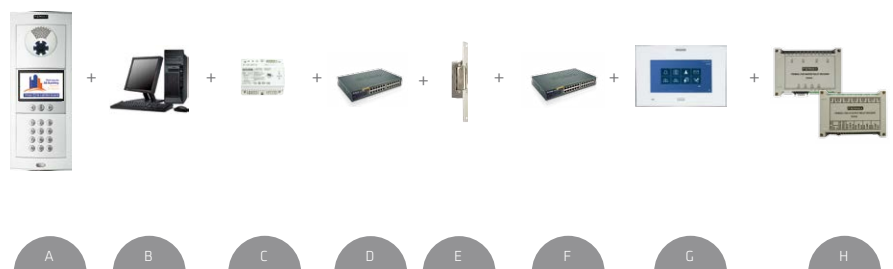
## FEATURES

- TCP/IP system.
- Allows to manage from single family homes to buildings without size limit:
  - A virtually unlimited number of monitors can run under one LYNX installation.
  - Unlimited distances from end to end of an installation.
  - Multichannel for conversations and data flows, with unlimited capacity.
- Easy and simple installation with the maximum robustness:
  - Power supply over Ethernet (PoE) simplifies the installation.
  - LYNX can be integrated into existing local area networks. LYNX uses structured cabling systems (SCS) and standard network equipment with network convergence.
  - Blackout free. SIP peer to peer distributed architecture allows independent operation for each device, without the need for a centralised server.
  - Upload configuration from an SD card makes installation a basic, straight forward process without any need for complicated training.
- Compatible with home automation systems.
- Simple access control included.
- Easy expandable.



## COMPOSITION

- A. Outdoor panel
- B. PC
- C. Power supply
- D. Switch
- E. Door lock release (VDC)
- F. Switch (by floor)
- G. Monitors
- H. Accessories



# 1. OUTDOOR PANEL

CAMERA is always in COLOUR. The LYNX AMPLIFIER includes voice synthesiser as standard. A message is reproduced when the lock released is activated. "The door is open. Please, close the door behind you". Configurable in 32 languages.

## SKYLINE PANEL

SKYLINE consists of 8 different sized frames where the modules can easily be fitted. Modules come in 2 sizes: V and W (W is twice the size of V).

### LYNX VIDEO MODULE



ref.1622  
Video module W

### SKYLINE FRAMES



ref.7341  
Frame  
1V-S1.130x128



ref.7332  
Frame  
2V-S2.130x151



ref.7333  
Frame  
3V-S4.130x199



ref.7334  
Frame  
4V-S5.130x246



ref.7335  
Frame  
5V-S6.130x294



ref.7336  
Frame  
6V-S7.130x341



ref.7337  
Frame  
7V-S8.130x389



ref.7338  
Frame  
8V-S9.130x436,5

### DOUBLE PUSH BUTTOS



ref.7371  
8 Push. 204W



ref.7372  
4 Push. 202V



ref.7376  
2 Push. 201V

### SINGLE PUSH BUTTOS



ref.7367  
4 Push. 104W



ref.7368  
2 Push. 102V



ref.7375  
1 Push. 101V

### DIGITAL PUSH BUTTONS



ref.7457  
Direct Keypad W



ref.1623  
Lynx Display W

### INFORMATIVE MODULES



ref.7445  
Cardholder W



ref.7444  
Cardholder V

### ACCESSORIES



ref.7443  
Metallic  
complement W



ref.7442  
Metallic  
complement V

### STAND-ALONE ACCESS CONTROL



ref.7438  
Keypad W



ref.6936  
Fingerprint W



ref.7440  
Proximity V

	S1 (1V)	S2 (2V)	S4 (3V)	S5 (4V)	S6 (5V)	S7 (6V)	S8 (7V)	S9 (8V)
<b>FLUSH BOXES</b>	ref.8851 115x114x45	ref.8852 115x138x45	ref.8854 115x185x45	ref.8855 115x233x45	ref.8856 115x280x45	ref.8857 115x328x45	ref.8858 115x375x45	ref.8982 115x420,5x45

If the configuration calls for more than one panel, a connection cable ref.2541 between them is needed (1 cable for each additional panel). If the configuration calls for a reader connected to the panel, a connection cable ref.2545 between them is needed. They can be joined laterally within the same series by means of a joining bolts set (ref.8829).



**HI-LINE PANEL**



7480 HI-LINE PANEL S8  
Panel s8: 130x389mm Kit flush box S8: 115x375x45

**CITYLINE PANEL**

1625 1/W LYNX CITY PANEL  
Panel S1: 130x128 Kit flush box S1: 115x114x45

**MARINE PANEL**

5484 1/W LYNX MARINE PANEL ST1  
5485 LYNX DIGITAL MARINE PANEL ST3



ref.7480 ref.5484 ref.5485

Panel S8: 130x389  
Flush box: 115x375x45  
Panel ST1: 150x180  
Flush box: 130x160x55  
Panel ST3: 150x360  
Flush box: 130x340x55

**2. POWER SUPPLY**

4813 AUDIO POWER SUPPLY 12Vdc/2A  
A power supply is required for each outdoor panel.DIN6.



ref.4813

**3. DOOR LOCK RELEASE**

67501 UNIV. LOCK RELEASE 990N-P22 MAX 10-24 Vac/dc.  
6750 UNIV. MECHANISM 990N MAX 10-24Vdc/ac  
Normal operating. 12Vdc o 12Vac. With MAX adjustable lock as standard. Requires short shield (S ref.2973 or P22 ref.2894) o large (M ref.2893 or L22 ref.2892).  
30701 LOCK RELEASE 540N-412-S MAX  
Normal functioning and small shield. 12Vdc.  
3264 AC ELECTRIC LOCK COMMANDER  
Maximum current: 1 Ampere.

540 Series consumption		
N,A	12Vac	980mA
N-412	12Vdc	260mA

990 Series consumption		
N	12Vac	250mA
	12Vdc	280mA



540 990

**4. MONITORS**

**VIVO MONITOR**

1620 7" VIVO MONITOR  
1640 7" SILVER VIVO MONITOR  
1641 7" BLACK VIVO MONITOR  
1606 VIVO DESKTOP SUPPORT  
1605 VIVO CONNECTOR



ref.1640 ref.1620 ref.1641

**VIVO PLUS MONITOR**



9460 10" VIVO PLUS MONITOR  
9462 10" SILVER VIVO PLUS MONITOR  
9461 10" BLACK VIVO PLUS MONITOR  
1606 VIVO DESKTOP SUPPORT  
1605 VIVO CONNECTOR



ref.9462 ref.9460 ref.9461

**SMILE TOUCH LYNX MONITOR**



1650 7" SMILE TOUCH LYNX MONITOR  
1651 7" BLACK SMILE TOUCH LYNX MONITOR  
1652 7" SILVER SMILE TOUCH LYNX MONITOR  
1655 SMILE TOUCH LYNX MONITOR CONNECTOR  
1657 BLACK SMILE TOUCH LYNX MONITOR CONNECTOR  
1656 SILVER SMILE TOUCH LYNX MONITOR CONNECTOR



ref.1652 ref.1650 ref.1651

**iLOFT LYNX TELEPHONE**

1645 iLOFT LYNX TELEPHONE



ref.1645

## 5. ACCESSORIES

### CALL DIVERT TO MOBILE DEVICES

It's possible to divert the calls received at the door entry panel to mobile devices, where the user can view the visitors' picture, set up communication with them and, if desired, open the door.

Users only need to download the free LYNXed application (available for iOS and Android). The mobile device is paired with the monitor by reading a QR code. Several different mobile devices can be linked up to the same monitor.

In the installation, a LYNX router is required to handle the call divert. When a call is diverted from the outdoor panel, all the devices linked up will sound at the same time as the monitor.

1609 LYNX ROUTER 

1610 LYNX PROPERTY MANAGEMENT UNIT 

Software application which allows to manage the communication, security and comfort in buildings in an intuitive manner, developing guard unit and configuration functions of the system. It is prepared for its use by means of a PC touchscreen or with a conventional keypad. It operates using three user profiles:

- **Installer profile (configuration):** Allows to customise functions and performance to the specific needs of each residence.
- **Administrator profile (operation):** Allows to manage system passwords, user privilege settings and to create or delete guard profiles.
- **Guard profile (operation):** To operate in normal mode.

Depending on the circumstances, the PMU offers three operating modes:

- **Full service:** all calls from panels to units are forwarded to the assigned PMU for filtering.
- **Home service:** visitors can call both the apartment or the PMU.
- **Off service:** when guards are absent, calls can be forwarded to others on duty. Supplies multifunction services: communication with homes, message service, event recording, protection using CCTV cameras...

Depending on the circumstances, the PMU offers three operating modes:

### LITE RESIDENTIAL MANAGEMENT SOFTWARE

LITE software is the limited functionality version of Property Management Station, for those cases where the LYNX installation will be working without the same. Enables LYNX installation start-up from the installer's own PC, as well as friend's list management. [Available at www.fermax.com](http://www.fermax.com)

1615 LYNX MASTER RELAY DECODER

1616 LYNX 10-WAYS RELAY DECODER

NOTA: LYNX requires a local area network. A switch is required. The system is compatible with most of the switchers (preferably with PoE and QoS support). No need of any special configuration for LYNX.

1617 LYNX SWITCH (4 PoE +4)

1618 LYNX SWITCH (8 PoE +8)

## 6. INTEGRATION WITH OTHER SYSTEMS

LYNX provides users freedom of choice through existing technologies and home automation systems. This system generates synergies through unlimited solutions supporting the integration, interaction and compatibility with other systems.



ref.1615



ref.1616



ref.1617

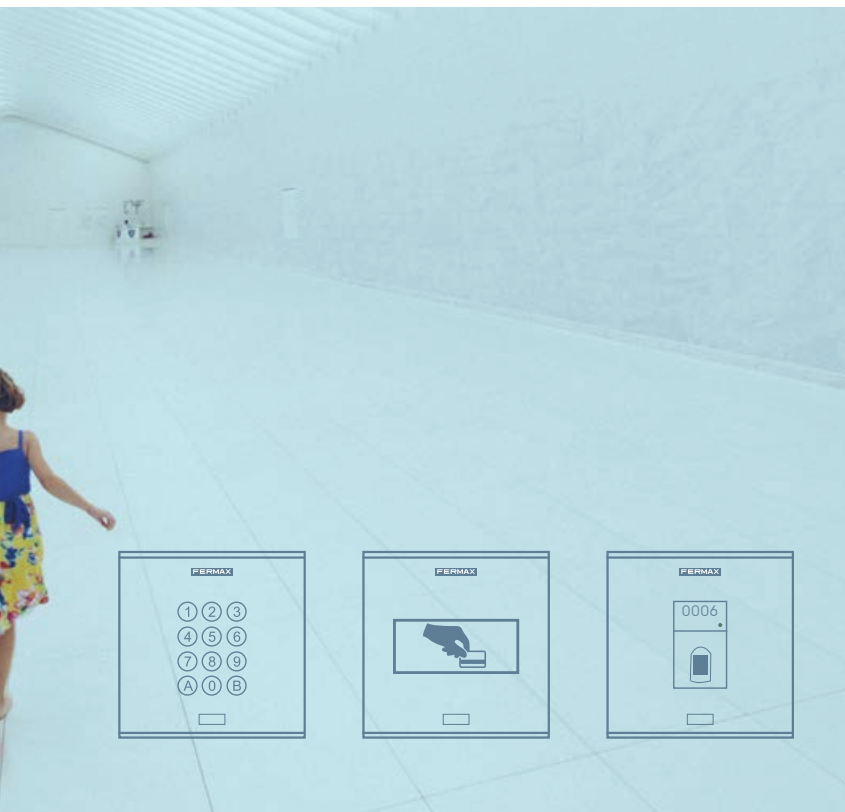


ref.1618

Restricted area. Only authorised personnel







## ACCESS CONTROL

STAND-ALONE	120
DISTRIBUTED	125
CENTRALISED	128

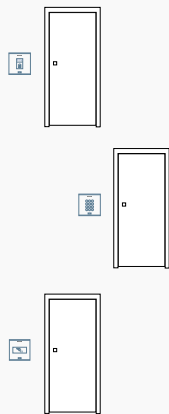


# ACCESS CONTROL

## Types of systems

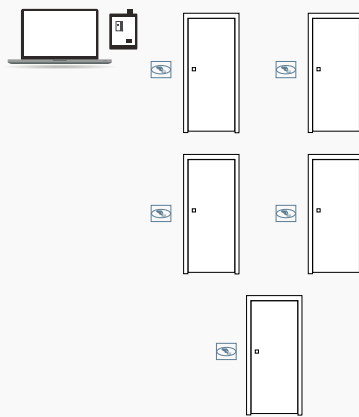
### Stand-alone

Control your door and only your door.



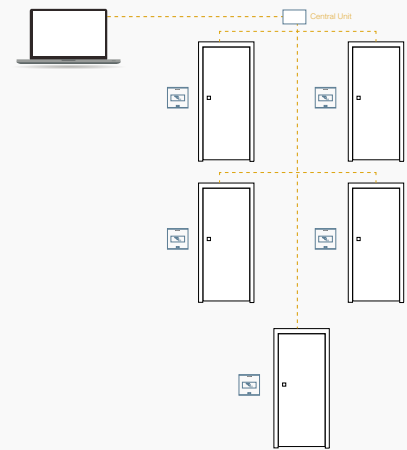
### Distributed

Installations with various access points which are not connected to each other. They are all managed from the same control point and do not require any type of remote connectivity due to the smart identifier. Permits user passes, expiration date, etc.



### Centralised

Installations with various access points which require a RS-485 or IP connection between them and the PC. With advanced functions such as activity/event logs in real time and offline, timekeeping control, pedestrian-vehicular anti-passback, etc.



## STAND-ALONE

Stand-alone systems allow to control a door or an access. They are indicated for offices, garages, etc. SKYLINE readers can be integrated in audio or video door entry systems to permit the access to the building to neighbours or employees.



# ACCESS CONTROL

## 1. KEYPAD (CODE)



### MEMOKEY KEYPAD

**Features**

- Reader with integrated controller.
- Activates 1 or 2 devices either individually or jointly.
- Allows up to 100 codes.
- Audio and visual notification.
- Power supply 12vac/dc.
- Programming from keypad with master code.

#### INTEGRATED CONTROLLER

**Composition**

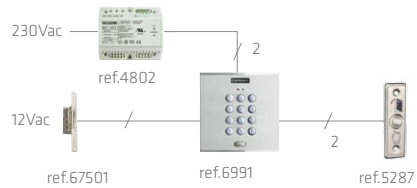
Keypad + Power supply + lock release + Push button

**4906 CITYLINE MEMOKEY KIT**  
Includes reader (ref.6991) and power supply (ref.4802). Flush-mounted installation.

**6991 CITYLINE MEMOKEY**  
Indoor/outdoor. Aluminium panel. Permanent backlight keypad made in zamak with signal LEDs. Flush-box included (ref.8948). Surface installation option (ref.7061).

**7438 SKYLINE MEMOKEY W**  
Accessory for SKYLINE panels.

**4699 MARINE MEMOKEY**  
Outdoor. 2,5mm stainless steel panel with backlight keypad and signal LEDs. Flush-box ST1 included (ref.4641).



ref.6991                      ref.7438                      ref.4699  
Reader dim. S1: 130x128                      Reader dim. ST1: 150X180  
Flush box dim. S1:115x114x45                      Flush box dim. ST1: 130x160x55.

### MEMOKEY MINI KEYPAD

**Features**

- Keypad with reduced dimensions for tight profile frames.
- WG keypad with external controller.
- Integrated MIFARE 13,56Mhz proximity reader.
- Operation modes: code, card, card+code and multi-card+code.
- Allows up to 1.000 codes.
- Audio and visual notification. IR programming keypad (ref.5276) included.
- Power supply 12vdc.

#### EXTERNAL CONTROLLER

**Composition**

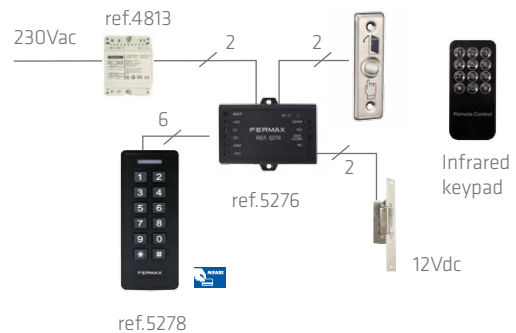
Keypad + Controller + Power sup. + Lock release + Push button + Identifiers

**5244 MINI MIFARE MEMOKEY KIT**  
 Surface installation. Includes keypad (ref.5278), controller (ref.5276) with IR programming keypad, power supply (ref.4813), 3 cards (ref.52750) and 2 MIFARE keyrings (ref.52740).

**5278 MINI WG MIFARE KEYPAD WITH PROXIMITY**

**5276 WG 1DOOR STAND-ALONE CONTROLLER**  
Up to 1.000 users. Power supply 12Vdc. Programming of user codes or cards (authorised/disabled) can be performed using MASTER cards or infrared keypad. (included).

**4813 POWER SUPPLY DIN6 100-240VAC 12VDC/2A**



Keypad dimensions: 50x122x21mm  
Controller dimensions: 65x54x9mm

### IDENTIFIERS

- 52750 MIFARE FERMAX PROXIMITY CARD
- 52740 MIFARE FERMAX PROXIMITY KEYPAD



# ACCESS CONTROL

## 2. PROXIMITY (CARD)

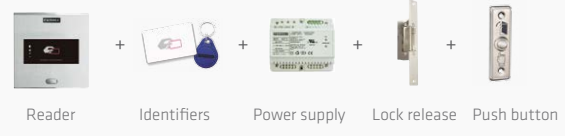


### PRIVATE READER

#### Features

- Proximity reader with integrated controller.
- Allows up to 400 cards EM 125Khz.
- Activates a device.
- Audio and visual notification.
- Open/wedged door alarm.
- Entrance sensor.
- Power supply 12Vac/dc.
- Programming via master card. Programming via PC just by adding ref.24661 including WINPROX software, free at [www.fermax.com](http://www.fermax.com)

#### Composition



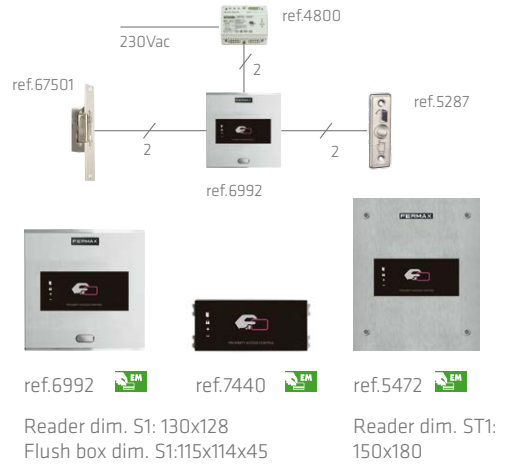
#### INTEGRATED CONTROLLER

**4905 PRIVATE PROXIMITY KIT**  
 Flush-mounted installation. Includes reader (ref.6992), power supply (ref.4802) of 12vac, 5 cards (ref.23361 and 1 keyring (ref.4515).

**6992 CITYLINE PROXIMITY READER**  
 Indoor/Outdoor. Aluminium panel. Flush box included (ref.8948). Optional surface box (ref.7061).

**7440 SKYLINE PROXIMITY READER V**  
 Accessory for SKYLINE and CITYLINE panels.

**5472 MARINE PROXIMITY READER**  
 Outdoor. Stainless steel reader. Flush box included ST1(ref.4641).



### MINI PRIVATE READER

#### Features

- Reader with external controller WG. Small dimensions.
- Allows different types of cards: EM (125Khz), HID (13,56Mhz) and MIFARE (13,56Mhz).
- Activates 1 device.
- Allows up to 1000 cards/keyrings.
- Audio and visual notification.
- Allows for management of users according to their identifier code (0 to 999) using an infrared remote control.
- Power supply 12vdc.
- Programming can be performed using the MASTER cards (authorising and disabling) or IP keypad.

#### Composition



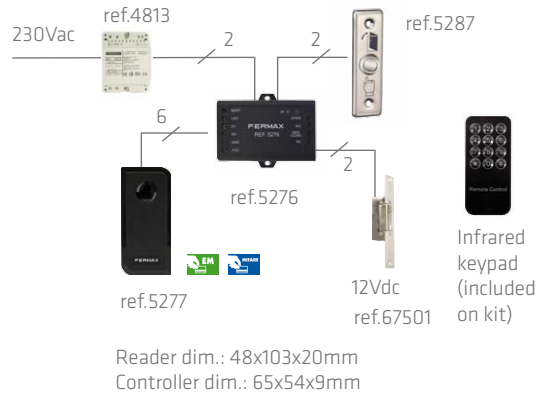
#### EXTERNAL CONTROLLER

**5248 MINI PROXIMITY KIT**  
 Surface installation. Includes reader (ref.5277), controller (ref.5276) with IR programming keypad, power supply (ref.4813), 3 cards (ref.52750) and 2 MIFARE keyrings (ref.52740).

**5277 MINI WG PROXIMITY READER**

**5276 MINI WG 1DOOR DSTAND-ALONE CONTROLLER**  
 Surface installation. Power supply 12Vdc (ref.4813) recommended.

**4813 POWER SUPPLY DIN6 100-240VAC 12VDC/2A**



#### IDENTIFIERS

52750	MIFARE FERMAX PROXIMITY CARD	
52740	MIFARE FERMAX PROXIMITY KEYRING	
23361	EM FERMAX PROXIMITY CARD	
2336	EM PROXIMITY CARD W/MAGNETIC BAND	
4515	EM FERMAX PROXIMITY KEYRING	



# ACCESS CONTROL

## 3. FINGERPRINT (BIOMETRIC)

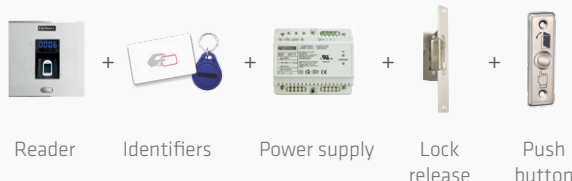
### INKEY READER

**Features**

- Fingerprint reader with proximity EM (125Khz) and integrated controller.
- Up to 4.500 users (1 fingerprints) or 2. 975 (2 fingerprints).
- Activates a device.
- 2 operating modes: Security mode: Double security Fingerprint +Card or Fingerprint+Code; Standard mode: Fingerprint or card (as default).
- Users that allow free access and unlocking door releases.
- Power supply 12Vac/dc.
- Programming via MASTER card/fingerprint or programming via PC just by adding ref.24661 with Singularkey software at [www.fermax.com](http://www.fermax.com)

#### INTEGRATED CONTROLLER

**Composition**



Reader + Identifiers + Power supply + Lock release + Push button

#### 6935 FINGERPRINT/ PROXIMITY CITYLINE READER

Outdoor/Indoor. Flush box included (ref.8948).  
Optional surface box (ref.7061).

#### 6937 FINGERPRINT/KEYPAD CITYLINE READER

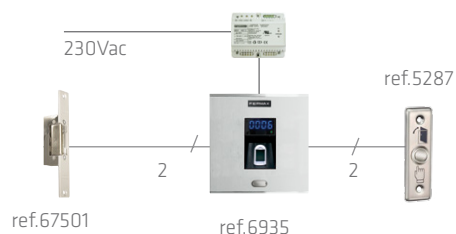
Flush-mounted installation. Flush box included (ref.8855). Optional surface box (ref.7065).  
Reader dimensions S5: 130x246  
Flush box dimensions: 115x233x45.

#### 6936 SKYLINE FINGERPRINT READER W

Accessory for SKYLINE and CITYLINE panels.

#### 5482 MARINE FINGERPRINT READER

Stainless steel. ST1 flush box included (ref.4641).



ref.6935 

Reader dim. S1:  
130x128  
Flush box dim.  
S1:115x114x45



ref.6937 



ref.6936 



ref.5482 

Reader dim ST1:  
150X180

### COMMON ACCESSORIES

#### 4802 POWER SUPPLY DIN4 240VAC 12VAC/1A

#### 4813 POWER SUPPLY DIN6 100-240VAC SALIDA 12VDC/2A

#### 67501 LOCK RELEASE 990N-P22 NORMAL 10-24VAC/DC

#### 67503 LOCK RELEASE 990N-P22 CTC NORMAL 10-24VAC/DC

#### 1076 MAGNETIC CONTACT (SENSOR)

#### 5287 FLUSH-MOUNTED PUSH BUTTON

#### 5288 SURFACE PUSH BUTTON

#### 23361 EM FERMAX PROXIMITY CARD (125Khz)

#### 4515 EM FERMAX PROXIMITY KEYRING (125Khz)

#### 24661 PC-USB INTERFACE



ref.23361  
Customizable



ref.4515



# ACCESS CONTROL

## 4. RADIOFREQUENCY RF (868Mhz)



### RF RECEIVER + HF HANDS-FREE

EXTERNAL CONTROLLER

#### Features

- RF external controller.
- Allows to include hands-free antenna (1.5, 3 and 5 mts).
- Activates 1 or 2 devices individually or jointly.  
Basic MINI only 1 device.
- Allows up to 500 identifiers.
- RF distance: 100m, HF Hands-free: 1.5, 3 or 5m.
- Manual or radio programming.

#### Composition



#### 5249 RF GARAGE AND SHOPS KIT

Includes receiver (ref.5250), power supply (ref.4802) and 3 remote controls (ref.5259).

#### 5250 RF BASIC-2B RECEIVER

Surface installation. Power supply 12/24Vac/dc. 2 relay outputs. 1 monostable relay and 1 monostable/bistable

#### 5291 RF BASIC MINI RECEIVER

To integrate in audio/video door entry panels. Power supply 12/24Vac/dc. 1 monoestable relay output. Dimensions: 60x44x18.

#### 5264 HF ANTENNA 1.5m

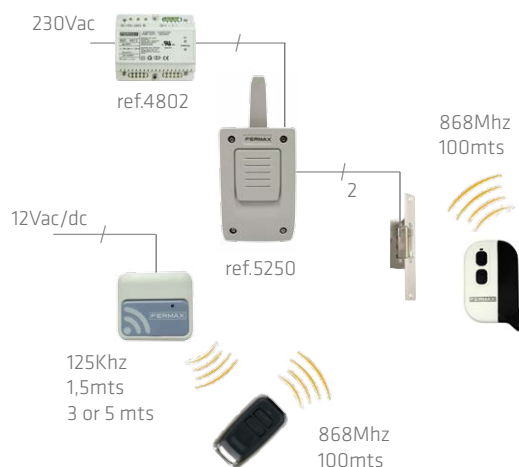
Power supply 12/24Vac/dc. Dimensions: 87x77x15.

#### 5289 HF VEHICULAR ANTENNA 3m

Surface installation. Power supply 12/24Vac/dc. Dimensions: 183x205x15.

#### 5290 HF VEHICULAR ANTENNA 5m

Surface installation. Power supply 230Vac. Dimensions: 349,4x310,5x42. With open contact input to connect an external presence detector (magnet or photocell type).



ref.5264  
ref.5289  
ref.5290

#### COMMON ACCESSORIES

- 4802 POWER SUPPLY DIN4 240VAC 12VAC/1A
- 4801 POWER SUPPLY DIN4 100-2VAC 12VAC/1,5A
- 4813 POWER SUPPLY DIN6 100-240VAC SALIDA 12VDC/2A
- 67501 LOCK RELEASE 990N-P22 NORMAL 10-24VAC/DC
- 67521 LOCK RELEASE 990A-P22 10-24VAC/DC

#### IDENTIFIERS

- 5259 RF KEYSINGLE MINI REMOTE CONTROL
- 5261 RF KEYTRI PLUS2 REMOTE CONTROL
- 5279 RF KEYTRI PLUS4 REMOTE CONTROL
- 5273 HF HANDS-FREE IDENTIFIER
- 5265 HF WRISTBAND FREE-TAG IDENTIFIER



ref.5273



ref.5265 HF

\*SINGLE, DUAL (bitechology emitter+proximity), TRI (tritechology emitter+proximity+hands-free) emitters.

## ACCESS CONTROL

# DISTRIBUTED

The AXESKEY access control is the perfect combination of intelligence and control enabling you to manage, from the same point, multiple doors that are not interconnected, though the **UserPlus Programming Kit (ref. 5258)**. This type of distributed intelligence allows each door to work independent of the rest, even in case of sabotage to any of them. Of course, each driver recognises their users and allows access if it has the relevant authorisation.

- RF controllers as standard: “Rolling Code” code switching high security emitters.
- Programming manually or by programmer.
- Enables code reservations by means of UserPlus Kit, ref.5258.
- Cards/keyrings/emitters can be replaced with no need to go to the installation, using the UserPlus Kit, ref.5258.
- Countdown or expiration date functions in cards and keyrings, depending on the controller.



## SIMPLIFIED MANAGEMENT OF COMMUNITY INSTALLATIONS

By means of the User Plus programming kit, with:

- Database including all the equipment, emitters, cards and proximity keyrings delivered in each installation.
- Possibility of assigning reserve codes. It's possible to sell functioning emitters, cards and keyrings without having to visit the installation.
- Configuration of equipment parameters, for example prohibiting programming of devices by radio or manually.



ref.5258

5258 USERPLUS RF-PROX PROGRAMMING KIT



## AXESKEY

All receivers and controllers allow hands-free operation for vehicles and users, with built-in HF antenna and the pertinent identifiers.

### RECEIVERS (868Mhz)

**BASIC** Opening by remote control (max.100m).

**5250** RF AXESKEY BASIC-2B 12/24V RECEIVER

Capacity up to 500 users. Power supply 12Vac/dc. 2 relay outputs, \*(pulse, pulse/bistable). Each code can trigger a single relay or both at once.



ref.5250



ref.5291

**5291** BASIC MINI RECEIVER

To integrate in audio and video door entry panels. 1 output relay.

**PLUS** Opening by proximity card/keyring.

AXESKEY Plus controllers add the connection of up to 3 SLIM proximity readers, ref.5255 to the BASIC features. Extension up to 2 additional POT-TRO manually adjustable relays, ref.5267.

**5251** RF AXESKEY PLUS-2B 12/24V CONTROLLER

**5252** RF AXESKEY PLUS-2 230V CONTROLLER



ref.5251 / ref.5252

**EXTRA** Opening by proximity card/keyring.

AXESKEY EXTRA controllers dispose of removable memory card of codes and events as well as a security code for the access to programming.

**5253** RF AXESKEY EXTRA-500 230V CONTROLLER

Password-protected manual programming. 1 relay output (1-30sg or bistable). 3 additional PROG-TSA relays, ref.5268. Card for up to 1000 events, ref.5269 (optional). Allows connection of up to 2 SLIM readers, ref.5255.



ref.5253



ref.5254

**5254** RF AXESKEY EXTRA-5K 12/24V CONTROLLER

Programming with UserPlus. Maximum 2 readers WIEGAND 26 or up to 4 SLIM readers, ref.5255 with extra power supply. Manages up to 5000 users and 5000 events. 2 relay outputs. Allows card expiration and countdown-prepayment function.

### READERS

**5255** SLIM 13.56 WG/AXES PROXIMITY READER

Surface proximity reader with read and write capacity for controls with built-in proximity and AXESKEY series cards and keyrings.



ref.5255



ref.5264

**5264** HF HANDS-FREE ANTENNA 1.5M

Hands-free opening. Power supply 12/24Vac/dc.

**5289** HF HANDS-FREE ANTENNA 3M

Surface installation. Power supply 12/24Vac/dc.



ref.5289









ref.5290

**5290** HF HANDS-FREE ANTENNA 5M

Surface installation. Power supply 230Vac.



## IDENTIFIERS

5259	MINI KEYSINGLE RF EMITTER	
5260	MINI KEYDUAL RF EMITTER (EMITTER+PROXIMITY)	
5261	KEYTRI PLUS2 RF EMITTER (EMITTER+PROXIMITY+HANDS-FREE)	
5279	KEYTRI PLUS4 RF EMITTER (EMITTER+PROXIMITY+HANDS-FREE)	
5273	HF HANDS-FREE IDENTIFIER	
	Includes pushbutton entry for voluntary activation and support.	
5265	HF HANDS-FREE WRISTBAND 868MHZ	
5245	KEY PLUS4 UNIVERSAL EMITTER	
	For maintenance personnel. Allow to manage multiple installations.	



ref.5259 / ref.5260  
MINI

ref.5261 PLUS2  
ref.5279 PLUS4





ref.5273

ref.5265 HF

ref.5245

AXESKEY cards and keyrings provide prepaid function.

5263	AXES PROXIMITY PRE KEYRING	
5262	AXES PROXIMITY PRE KEYCARD	









ref.5263 KEYRING



ref.5262 KEYCARD

## ACCESSORIES

5267	TEMP. POT-TRO RELAY CARD (PLUS)
5268	PROG-TSA RELAY CARD (EXTRA-500)
5269	1000-EVENTS CARD (EXTRA-500)
5271	500-MEMORY CARD (PLUS_BASIC)
5272	500C-MEMORY CARD (EXTRA-500)
5270	GSM REMOTE CARD (EXTRA-5K) Consult.

						
	RF AXESKEY BASIC 2B	RF AXESKEY BASIC MINI 2B	RF AXESKEY PLUS 2B	RF AXESKEY PLUS 2	RF AXESKEY EXTRA 500	RF AXESKEY EXTRA 5K
	Ref.5250	Ref.5291	Ref.5251	Ref.5252	Ref.5253	Ref.5254
RF	✓	✓				
RF + HF	✓	✓				
RF + PROX.			✓	✓	✓	✓
RF + PROX. + HF			✓	✓	✓	✓
500 USERS	✓	✓	✓	✓	✓	✓
5.000 USERS						✓
1.000 EVENTS					✓ (optional: ref.5269)	
5.000 EVENTS						✓
12/24Vac/dc	✓	✓	✓			✓
230 Vac				✓	✓	
1 RELAY		✓			✓ (optional: ref.5268)	
2 RELAYS	✓		✓ (optional: ref.5267)	✓ (optional: ref.5267)		✓

HF: Adding the corresponding antennas ref. 5264/5289 or 5290.  
PROX: Adding reader ref. 5255.



# CENTRALISED

A centralised access control system is characterised by the fact that managing both system and users is carried out from a central device which connects directly (RS-485) or remotely (IP) to the PC through a software program (in the Windows range), for the programming of the installation.

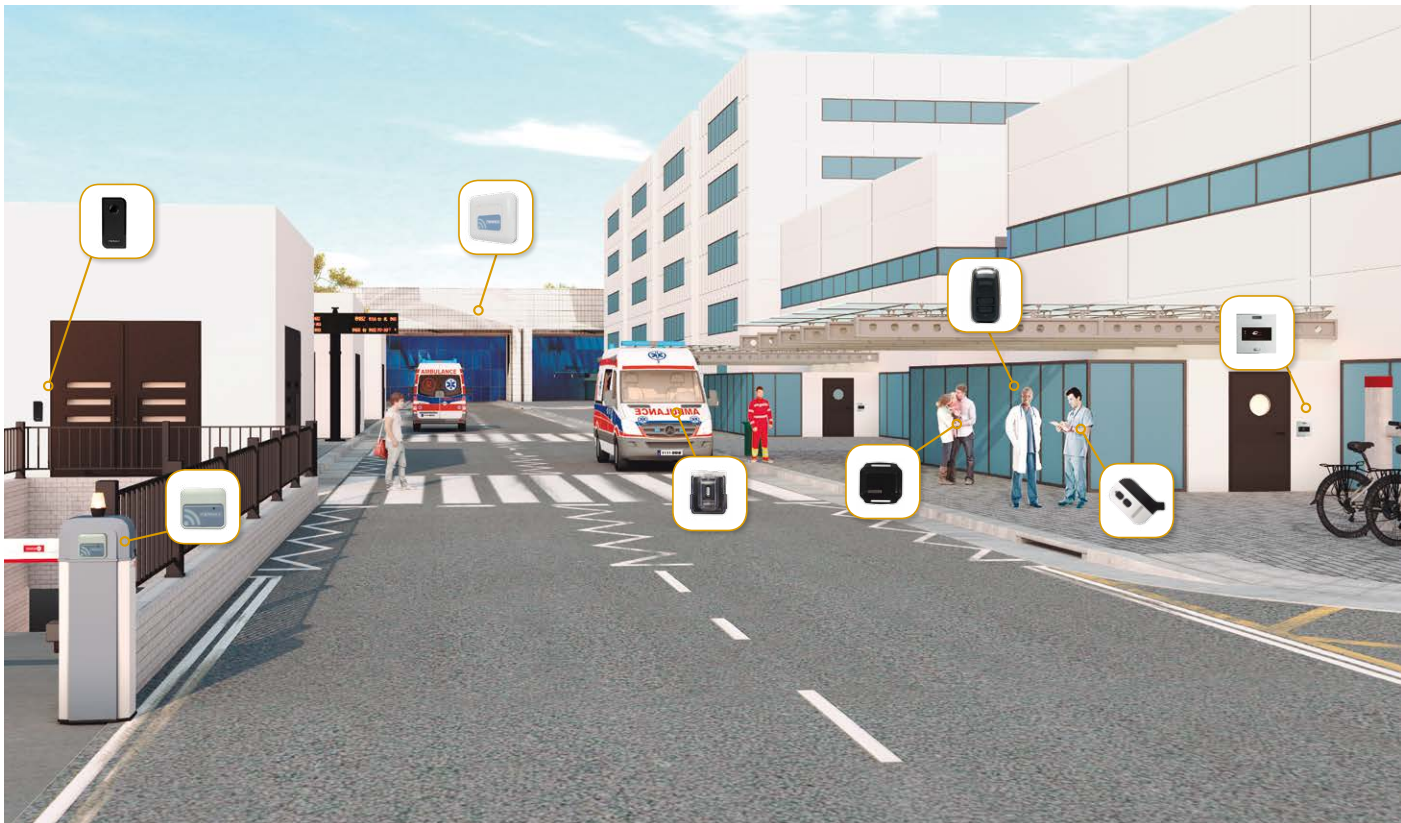
These systems feature advanced functions such as anti-passback, timekeeping control, capacity limitations, activation of devices from readers, incident log in real time or offline, automation, etc.

Fermax offers two options for the advanced management of multiple access points:

**AC Plus:** The most competitive and easiest integration solution.

**IP Axes:** The most intuitive and competitive system for remote management via personnel presence.

It is necessary if you require a sitemap, functionalities such as computation of user hours, personnel presence and remote access control.



## 1. AC PLUS

AC Plus is the perfect centralized access control system for medium sized projects since it allows the complete management of multiple accesses.



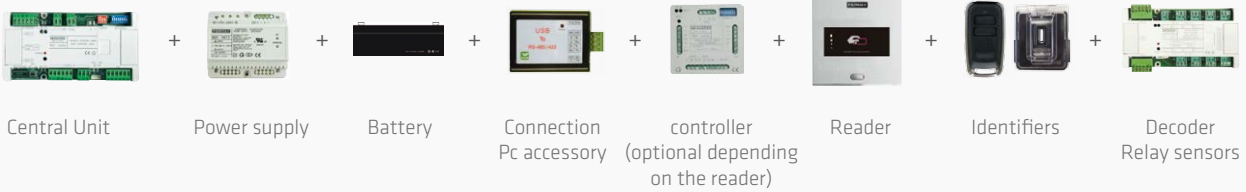
This system connects the different readers through a BUS wire to the device, which carries out the control and offers a comfortable management of users via an intuitive software. The AC Plus programme is a free license software which is always updated and available at [www.fermax.com](http://www.fermax.com)

# ACCESS CONTROL

➔ INTEGRATED CONTROLLER

➔ EXTERNAL CONTROLLER

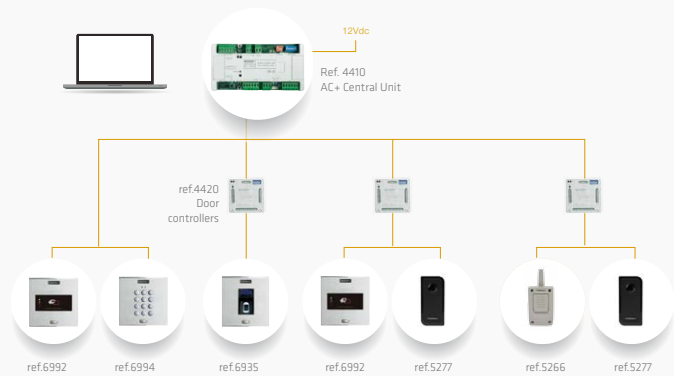
## Composition



## Capacities

SYSTEMS	Centralized
READERS TYPE	Prox: City, Marine, Skyline, Slim, Mini. Keypad: City, Marine, Skyline. Fingerprint: City, Marine, Skyline. Combined RF Hands-free Long-Range
MAX. NUMBER OF USERS	2.046
NUMBER OF DOORS (1 reader by door)	2.048 (up to 32 accesses per central)
MAX. CENTRAL UNITS	64
CONNECTION MANAGEMENT	PC RS485
EVENTS MANAGEMENT	3.000 (Without limits when the PC is functioning)
RELAYS AND SENSORS	Up to 1.000 I/O per central
LICENSES	No
SOFTWARE OR TOOL	Free software Necessary USB Converter ref.24661
SCALABLE & EXPANDABLE	Yes

## One-line diagram



### 4410 AC PLUS CENTRAL UNIT (DIN10)

Includes 2 PC software for programming and system management:

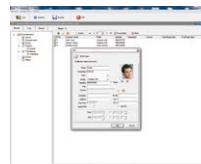
- **AC PLUS SERVER.** To configure the hardware (central unit, readers, decoders, etc).
- **AC PLUS ACCESS.** To manage the users and the restrictions. Available at [www.fermax.com](http://www.fermax.com)



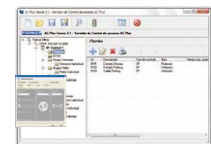
ref.4410

### 4813 POWER SUPPLY 12Vdc/2A (DIN6)

General power supply. 1 power supply per each 6 accesses is required.



Software Access



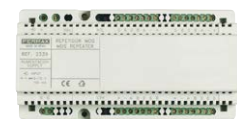
Software Server

### 2060 BATTERY ADAPTOR 12Vdc (DIN6)

Installed between the power supply and the system. It has a connector to link with an external PB-Acid battery.



ref.4813



ref.2339

### 2339 MDS/AC+ REPEATER (DIN10)

Necessary for distances of over 1.200m between door controllers or decoders and the central unit. DIN10 format.

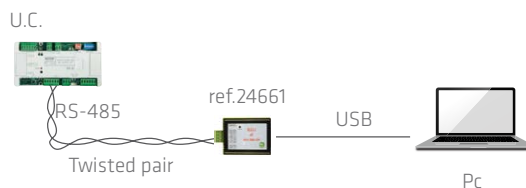


# ACCESS CONTROL

## PC CONNECTION ACCESSORIES

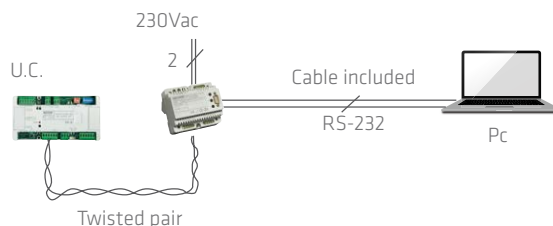
### 24661 USB TO RS-485 PC ADAPTOR

- Connection between PC (USB) and Guard Unit.
- Direct power supply from USB.
- Drivers included.



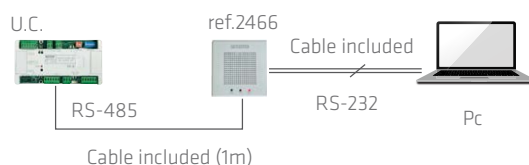
### 2338 RS-232 TO RS-485 PC ADAPTOR

- Connection between Pc and Central Unit (or network of centrals).
- Allows for the connection of modem to the Central Unit in case of remote management.
- Connection to PC: RS-232. Max.: 30m (cable included: 3m).
- Connection to Central: RS-485 (twisted pair). Max.: 1.200m.
- DIN6 format. Power supply: 230Vac.



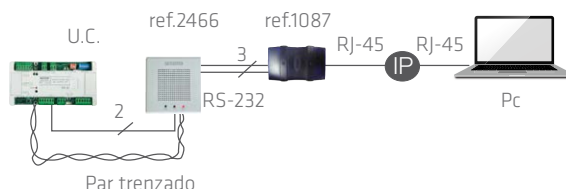
### 2466 PC DECODER PROGRAMMING MODULE

- Programming addresses and parameters to decoders from PC.
- Maintenance of installations that have no permanently connected PC, as an installer tool.
- Includes RS-232 cable with DB-9 connector for PC linkup.
- Includes RS-232 cable with DB-9 connector for PC connection.



### 1087 IP REMOTE MANAGEMENT MODULE

- Communication between management station and the installation using IT network (Ethernet), avoiding additional wiring.
- Connection to Central Unit by programmer (ref.2466).
- An IP address must be configured for network connection using the built-in software.
- Remote management via internet if allowed by protective devices (Firewall) in the IT installation (specialist staff needed to configure router for internet access).
- Power supply: 230Vac via adapter (included).
- Ethernet connection RJ4.



## FIBER OPTIC ACCESSORIES

### 1345 FIBER OPTICS CONVERTER

Allows MDS/AC+ signals transmissions (audio, video and data) by means a fiber optic cable (monomode fiber with FC/PC connectors). Advantages: links up to 5 km, noise immunity and discharges isolation. Includes: transmitter (TX), receiver (RX) and two power supplies. It can be used in any communication point of an MDS system.

Dimensions: (width) x (height) x (depth) mm.

# ACCESS CONTROL

## READERS WITH INTEGRATED CONTROLLER

- 6992 CITYLINE PROXIMITY READER
- 
- 6994 AC PLUS CITYLINE KEYPAD  
Includes flush box S1 (ref.8948): 115x114x45.
- 
- 6995 CITYLINE KEYPAD/PROXIMITY READER  
Includes flush box S4 (ref.8949): 130x199.
- 
- 7440 SKYLINE PROXIMITY READER V
- 
- 7453 AC PLUS SKYLINE KEYPAD W
- 
- 7457 AC PLUS DIRECT SKYLINE KEYPAD W  
For access control combinations of keypad with proximity and fingerprint readers.
- 
- 5472 MARINE PROXIMITY READER
- 
- 4696 AC PLUS MARINE KEYPAD  
Includes flush box ST1 (ref.4641): 130x160x55.



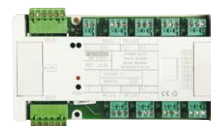
## ACCESSORIES

These controllers require an external relay to activate a lock release with more than 500mA consumption or inverted functioning.

- 2013 ADDITIONAL FUNCTIONS RELAY
- 
- 3491 DIN RELAY 12VDC/12A
- 
- 2430 8 MDS/AC+ RELAY DECODER  
Secure activation of the lock-release from the inside. The 8 outputs are programmable from the software DECOWIN (free at [www.fermax.com](http://www.fermax.com)).
- 
- 2429 8 MDS/AC+ SENSOR DECODER  
It handles 8 sensors: door contacts, presence, flooding... The 8 inputs are programmable from the software DECOWIN (free at [www.fermax.com](http://www.fermax.com)).



ref.2013



ref.2430



# ACCESS CONTROL

## READERS WITH EXTERNAL CONTROLLER

Recommended for higher security applications, where the electronics are located in an independent controller (ref.4420). One per reader is required.

### 4420 DOOR CONTROLLER

Accepts Wiegand-26 bit or magstrip (Data/Clock) readers. Incorporates one relay to activate the lock release and another relay for auxiliary functions. Accepts a reader for entrance and another for exit, exit button, door sensor, free access button. It's installed in 100x100mm boxes.

### 6992 CITYLINE PROXIMITY READER

### 6995 CITYLINE PROXIMITY/KEYPAD READER

### 7440 SKYLINE PROXIMITY READER V

### 5472 MARINE PROXIMITY READER

### 6936 SKYLINE FINGERPRINT READER W

### 6935 CITYLINE FINGERPRINT READER

### 6937 CITYLINE FINGERPRINT/KEYPAD READER

### 5482 MARINE FINGERPRINT READER

### 5277 MIFARE WG MINI PROXIMITY READER

Allows for the reading of MIFARE and EM cards.

### 5255 WG/AXES SLIM 13.56 PROXIMITY READER

### 5266 AXESKEY RF-WIEGAND RECEIVER 12VDC

## IDENTIFIERS

### 52750 MIFARE FERMAX PROXIMITY CARD



### 52740 MIFARE FERMAX PROXIMITY KEYRING



### 23361 EM FERMAX PROXIMITY CARD



### 2336 EM PROXIMITY CARD W/MAGNETIC BAND



### 4515 EM FERMAX PROXIMITY KEYRING



### 5259 MINI KEYSINGLE RF EMITTER



### 5260 MINI KEYDUAL RF EMITTER (RF+PROX)



### 5262 PRE PROX KEYCARD. 13.56Mhz



### 5263 PRE PROX KEYRING. 13.56Mhz



ref.4420



ref.6992  
S1: 130x128  
Box ref.8948



ref.6995  
S4: 130x199  
Box ref.8854



ref.7440



ref.5472  
ST1: 150x180  
Box ref.4641



ref.6936



ref.6935



ref.6937  
S5: 130x246  
Box ref.8855



ref.5482  
ST1: 150x180  
Box ref.4641



ref.5277



ref.5255



ref.5266



ref.2336

ref.23361  
Customizable



ref.4515



ref.5259



ref.52740



ref.5263

# ACCESS CONTROL

## 2. IP AXES



An IP system for buildings with intuitive management, advanced features and total flexibility.

The system allows for the remote management with absolute flexibility for projects of great magnitude and complexity. The control of the installation is performed through assistants that guide the professional on creating its own configuration.

<h3>Features</h3> <p>The software that runs the installation via TCP/IP is totally intuitive.</p> <ul style="list-style-type: none"> <li>• Installation and user creation wizard.</li> <li>• Discounting.</li> <li>• E-Mail alert sending.</li> <li>• Guest management.</li> <li>• Enables real-time sitemap viewing/ remote control for status of: doors, readers, analogue entrances, exits and counters.</li> <li>• Automatic IP address detection.</li> <li>• Voice messages.</li> <li>• Multiple identifiers per user.</li> <li>• Creation of direct accesses and automatic systems.</li> <li>• Users presence management.</li> <li>• Presence time. Total hours per user.</li> <li>• Visitors management.</li> </ul>	<h3>Composition</h3> <p>Central Unit + Expansion modules + License + Power Supply + Battery + Reader + Identifiers</p>
	<h3>One-line diagram</h3>

### Capacities

SYSTEMS	Centralised
READERS TYPE	<b>Prox:</b> City, Marine, Skyline, Slim, Mini.; <b>Keypad:</b> Mini (with proximity); <b>RF Hands-free:</b> High range
COMPATIBILITY WITH CITY, MARINE & SKYLINE	Yes (City, Skyline, Marine with cable (ref.2545)).
MAX. NUMBER OF USERS	15.000
NUMBER OF DOORS (1 reader per door)	840 (Limited by license).
MAX. CENTRAL UNITS OR CONTROLLER	64 (up to 10 expansion modules per central unit)
MANAGEMENT CONNECTION	TCP/IP
EVENTS MANAGEMENT	15.000
RELAYS AND SENSORS	Up to 5.120 I/O
LICENSES	Necessary for installations of more than 2 readers or modules IP_AXES 12/4 Licenses for 10/40/80/140/840 readers
SOFTWARE OR TOOL	Free software.
SCALABLE & EXPANDABLE	Yes



# ACCESS CONTROL

## CENTRAL

### 5280 IP\_AXES 1/2 CENTRAL CONTROLLER

Central controller allows for the connection of one or two doors with WIEGAND readers and extension up to 10 expansion modules by RS-485, maximum distance 750mts. Requires 12Vdc power supply, ref.4813. Power supply 12Vdc/2A recommended. Dimensions: 160(W)x120(H)x30(D)mm.



ref.5280

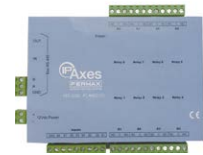
## EXPANDERS

### 5281 IP\_AXES 4 EXPANSION

4-door extension module. Requires 12Vdc power supply, ref. 4813 recommended. Dimensions: 160(W)x120(H)x30(D)mm.



ref.5281



ref.5282

### 5282 IP\_AXES I/O EXPANSION

Extension module for 8 inputs and 8 outputs. Recommended for lift management. 8 levels per module. Dimensions: 160(W)x120(H)x30(D)mm.

## POWER SUPPLY

### 4813 POWER SUPPLY 12Vdc/2A. DIN6

1 power supply ref.4813 for each 6 accesses or central unit ref.5280.



ref.4813



ref.2060

### 2060 EMERGENCY ADAPTOR BATTERY 12VDC. DIN6

## LICENSES

Necessary for installations of more than 1 central controller or 4-readers expansion module.

### 5283 10 READERS IP\_AXES LICENSE

### 5284 40 READERS IP\_AXES LICENSE

### 5285 80 READERS IP\_AXES LICENSE

### 5286 140 READERS IP\_AXES LICENSE

### 5292 840 READERS IP\_AXES LICENSE

## READERS

Cityline readers require an additional cable (ref.2545) to connect with IP\_AXES.

### 6992 CITYLINE PROXIMITY READER

### 7440 SKYLINE PROXIMITY READER V

### 5472 MARINE PROXIMITY READER

### 2545 PROXIMITY CONNECTION CABLE (4 WIRES)



ref.6992



ref.7440



ref.5472



ref.5472





# ACCESS CONTROL

## 5255 13.56 WG/AXES SLIM PROXIMITY READER

If it's installed as WG, it can be used as Axes or Mifare identifier. If it's installed in S-BUS (3 wires), it only allows Axes identifiers.

## 5277 WG MIFARE MINI PROXIMITY READER

## 5278 KEYPAD WITH WG MIFARE MINI PROXIMITY



## RECEIVERS

## 5266 AXESKEY RF-WIEGAND 12VDC RECEIVER



## ANTENNAS

## 5264 HF HANDS-FREE ANTENNA. 1.5M

Hands-free operating. Power supply 12/24Vac/dc.

## 5289 HF HANDS-FREE ANTENNA. 3M

Power supply 12/24Vac/dc.

## 5290 HF HANDS-FREE ANTENNA. 5M

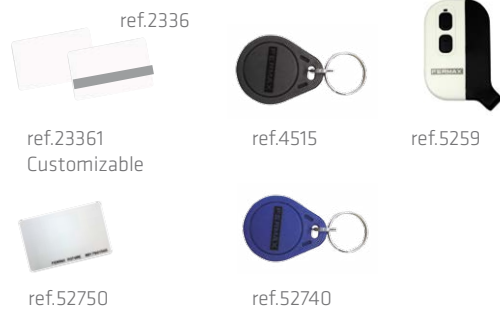
Surface installation. Power supply 230Vac. With open contact input for external detector as photocell or magnet.



## IDENTIFIERS

Compatible with all readers:

52740	MIFARE FERMAX PROXIMITY KEYRING	
52750	MIFARE FERMAX PROXIMITY CARD	
23361	EM FERMAX PROXIMITY CARD	
2336	EM PROXIMITY CARD W/MAG. BAND	
4515	EM FERMAX PROXIMITY KEYRING	



Compatible with SLIM reader only.

5259	MINI KEYSINGLE RF EMITTER	
5260	MINI KEYDUAL RF EMITTER (RF+PROX)	
5261	MANDO RF KEYTRI PLUS2 (EMITTER+PROXIMITY+HANDS-FREE)	
5263	PRE PROX KEYRING. 13.56Mhz	
5262	PRE PROX KEYCARD. 13.56Mhz	
5265	HF HANDS-FREE WRISTBAND 868MHZ	



Tell us what you want, and we'll tell you what you need





# TECH

## TECHNICAL INFORMATION

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# TECHNICAL INFORMATION

## DUOX VIDEO. SKYLINE

SKYLINE PANEL	FRAME 3V	FLUSH BOX	FRAME 4V	FLUSH BOX	FRAME 5V	FLUSH BOX	FRAME 6V	FLUSH BOX	FRAME 7V	FLUSH BOX	FRAME 8V	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIF. MODULE	PUSH BUTTON MODULES	BLANK MODULES	POWER SUPPLY	POWER SUPPLY	POWER SUPPLY	FILTER	LINE ADAPTOR	COLOUR MONITOR	CONNECTOR
	ref. 7333	ref. 8854	ref. 7334	ref. 8855	ref. 7335	ref. 8856	ref. 7336	ref. 8857	ref. 7337	ref. 8858	ref. 7338	ref. 8829	ref. 2541	ref. 7391	ref. 201	ref. 202	ref. 204	V	ref. 4830	ref. 4812	ref. 4830	ref. 3244	ref. 3255	ref. 9405
<b>2</b> S4	1	1													1	1		1	1	1	1	2	2	2
<b>4</b> S4	1	1													1	1		1	1	1	1	2	4	4
<b>6</b> S5			1	1											1	1		1	1	1	1	2	6	6
<b>8</b> S5			1	1											1	1	1	1	1	1	1	2	8	8
<b>10</b> S6					1	1									1	1	2	1	1	1	1	2	10	10
<b>12</b> S6					1	1									1	1	2	1	1	1	1	2	12	12
<b>14</b> S7							1	1							1	1	1	1	1	1	1	2	14	14
<b>16</b> S7							1	1							1	1	2	1	1	1	1	2	16	16
<b>18</b> S8									1	1					1	1	2	1	1	1	1	2	18	18
<b>20</b> S8									1	1					1	1	2	1	1	1	1	2	20	20
<b>22</b> S9											1	1			1	1	2	1	1	1	1	2	22	22
<b>24</b> S9									1	1					1	3	3	1	1	1	1	2	24	24
<b>24</b> S5														1	1	3	3	1	1	1	1	2	24	24
<b>26</b> S6					2	2								1	1	2	2	1	1	1	1	2	26	26
<b>28</b> S6					2	2								1	1	3	3	1	1	1	1	2	28	28
<b>30</b> S6					2	2								1	1	3	3	1	1	1	1	2	30	30
<b>32</b> S6					2	2								1	1	2	3	1	1	1	1	2	32	32
<b>32</b> S7							2	2						1	1	4	4	1	1	1	1	2	32	32
<b>34</b> S7							2	2						1	1	4	4	1	1	1	1	2	34	34
<b>36</b> S7							2	2						1	1	4	4	1	1	1	1	2	36	36
<b>38</b> S7							2	2						1	1	4	4	1	1	1	1	2	38	38
<b>40</b> S7							2	2						1	1	5	5	1	1	1	1	2	40	40

If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX.

# TECHNICAL INFORMATION

## DUOX AUDIO. SKYLINE



SKYLINE PANEL	FRAME 3V	FLUSH BOX	FRAME 4V	FLUSH BOX	FRAME 5V	FLUSH BOX	FRAME 6V	FLUSH BOX	FRAME 7V	FLUSH BOX	FRAME 8V	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIF. MODULE	PUSH BUTTON MODULES	BLANK MODULES	POWER SUPPLY	POWER SUPPLY	FILTER	LINE ADAPTOR	LOFT TELEPHONE	CITYMAX TELEPHONE
N° APART.	SERIES	ref. 8854	ref. 7334	ref. 8855	ref. 7335	ref. 8856	ref. 7336	ref. 8857	ref. 7337	ref. 8858	ref. 7338	ref. 8982	ref. 8829	ref. 2541	VIDEO 201	202	204	V 2V	ref. 4830	ref. 3244	ref. 3255	ref. 3421	ref. 3425
2	S4	1													1				1	1	2	2	2
4	S4	1													1	1			1	1	2	4	4
6	S5		1	1											1	1			1	1	2	6	6
8	S5		1	1											1		1		1	1	2	8	8
10	S6				1	1									1	1	1		1	1	2	10	10
12	S6				1	1									1	1	1		1	1	2	12	12
14	S7						1	1							1	1	1		1	1	2	14	14
16	S7						1	1							1		2		1	1	2	16	16
18	S8								1	1					1	1	2		1	1	2	18	18
20	S8								1	1					1	1	2		1	1	2	20	20
22	S9										1	1			1	1	2		1	1	2	22	22
24	S9										1	1			1	3	3		1	1	2	24	24
24	S5		2	2									1	1	1	3	3		1	1	2	24	24
26	S6				2	2							1	1	1	2	2	1	1	1	2	26	26
28	S6				2	2							1	1	1	3	3		1	1	2	28	28
30	S6				2	2							1	1	1	3	3		1	1	2	30	30
32	S6				2	2							1	1	1	2	3		1	1	2	32	32
32	S7						2	2					1	1	1	4	4	1	1	1	2	32	32
34	S7						2	2					1	1	1	4	4	1	1	1	2	34	34
36	S7						2	2					1	1	1	4	4	1	1	1	2	36	36
38	S7						2	2					1	1	1	4	4		1	1	2	38	38
40	S7						2	2					1	1	1	5	5		1	1	2	40	40

If an AC electric lock is used, an additional power supply ( ref.4800 - 12Vac/1,5A) is required. Universal lock release ref.67501 - 990N-P22MAX.

CITYLINE PANEL													
	PANEL	FLUSH BOX	PANEL	FLUSH BOX	JOINING BOLTS	EXTENSION MODULE	POWER SUPP.	POWER SUPP.	FILTER	LINE ADAPTOR	VEO MONITOR	CONNECTOR	
N° APART.	SERIES	REF.	REF.	REF.	REF. 8829	REF. 2441	REF. 4812	REF. 4830	REF. 3244	REF. 3255	REF. 9405	REF. 9406	
4	S2	70018	8852			1 (ref.2008)	1		1	2	4	4	
6	S3	70028	8853			1 (ref.2008)	1		1	2	6	6	
8	S4	70048	8854			1 (ref.2008)	1		1	2	8	8	
10	S5	70128	8855			1	1		1	2	10	10	
12	S5	70138	8855			1	1		1	2	12	12	
14	S6	70228	8856			1	1		1	2	14	14	
16	S6	70238	8856			1	1		1	2	16	16	
18	S7	70328	8857			2	1		1	2	18	18	
20	S7	70338	8857			2	1		1	2	20	20	
22	S8	71148	8858			2	1		1	2	22	22	
24	S8	71158	8858			2	1		1	2	24	24	
26	S9	71628	8982			2		1	1	2	26	26	
28	S9	71638	8982			2		1	1	2	28	28	
30	S6	70228	8856	7268	8856	1	2	1	1	2	30	30	
32	S6	70238	8856	7268	8856	1	2	1	1	2	32	32	
34	S6	70238	8856	7027	8856	1	3	1	1	2	34	34	
36	S7	70328	8857	7031	8857	1	3	1	1	2	36	36	
38	S7	70328	8857	7040	8857	1	3	1	1	2	38	38	
40	S7	70338	8857	7040	8857	1	3	1	1	2	40	40	
<b>For more than 40 apartments a digital panel is recommended</b>													
42	S7	7387	8857					1	1	2	2	42	42
44	S7	7387	8857					1	1	2	2	44	44
46	S7	7387	8857					1	1	2	2	46	46
48	S7	7387	8857					1	1	2	2	48	48
50	S7	7387	8857					1	1	2	2	50	50
60	S7	7387	8857					1	1	2	2	60	60
80	S7	7387	8857						2	2	2	80	80
100	S7	7387	8857					1	2	3	2	100	100



If an AC electric lock release is used, an additional power supply (ref.4800 - 12Vac/1,5A) or an AC electric lock commander (ref.3264) are required. Universal lock release ref.67501 - 990N-P22MAX.

# TECHNICAL INFORMATION













VDS VIDEO. SKYLINE

SKYLINE PANEL		REF. FRAME	FLUSH BOX	JOINING BOLTS	CA-BLE	COLOUR VIDEO	201	202	204	BLANK MODULE	BLANK MODULE	POWER SUPPLY	4-WAYS DISTRIBUTOR	LOFT MONITOR	LOFT CONNECTOR	MONITOR VEO	VEO CONNECTOR
N° APART.	SERIES	REF. FRAME	REF. 8829	REF. 2541	REF. 7421	REF. 7376	REF. 7372	REF. 7371	REF. 7442	REF. 7443	REF. 4830	REF. 2449	REF. 3314	REF. 9401	REF. 9402		
2	S4	3V	7333	8854		1	1				1		2	2	2	2	2
4	S4	3V	7333	8854		1	1				1	1	4	4	4	4	4
6	S5	4V	7334	8855		1	1				1	2	6	6	6	6	6
8	S5	4V	7334	8855		1		1			1	2	8	8	8	8	8
10	S6	5V	7335	8856		1	1	1			1	3	10	10	10	10	10
12	S6	5V	7335	8856		1	1	1			1	3	12	12	12	12	12
14	S7	6V	7336	8857		1	1	1			1	4	14	14	14	14	14
16	S7	6V	7336	8857		1		2			1	4	16	16	16	16	16
18	S8	7V	7337	8858		1	1	2			1	5	18	18	18	18	18
20	S8	7V	7337	8858		1	1	2			1	5	20	20	20	20	20
22	S9	8V	7338	8982		1	1	2			1	6	22	22	22	22	22
24	S9	8V	7338	8982		1		3			1	6	24	24	24	24	24
24	S5	4V	7334 <sup>X2</sup>	8855 <sup>X2</sup>		1	1	3			1	6	24	24	24	24	24
26	S6	5V	7335 <sup>X2</sup>	8856 <sup>X2</sup>		1	2	2	1		1	7	26	26	26	26	26
28	S6	5V	7335 <sup>X2</sup>	8856 <sup>X2</sup>		1	1	3	1		1	7	28	28	28	28	28
30	S6	5V	7335 <sup>X2</sup>	8856 <sup>X2</sup>		1	1	3			1	8	30	30	30	30	30
32	S6	5V	7335 <sup>X2</sup>	8856 <sup>X2</sup>		1	2	3			1	8	32	32	32	32	32
32	S7	6V	7336 <sup>X2</sup>	8857 <sup>X2</sup>		1		4	1		1	8	32	32	32	32	32
34	S7	6V	7336 <sup>X2</sup>	8857 <sup>X2</sup>		1	1	4	1		1	9	34	34	34	34	34
36	S7	6V	7336 <sup>X2</sup>	8857 <sup>X2</sup>		1	1	4	1		1	9	36	36	36	36	36
38	S7	6V	7336 <sup>X2</sup>	8857 <sup>X2</sup>		1	1	4			1	10	38	38	38	38	38
40	S7	6V	7336 <sup>X2</sup>	8857 <sup>X2</sup>		1		5			1	10	40	40	40	40	40

\*NOTE: If an AC electric lock is used, an additional power supply (ref:4800 - 12Vac/1,5A) or an AC electric lock commander (ref:3264) are required. There are two distributor models, 2 and 4 ways, that can be combined in an installation. X2 = Order 2 units of the indicated reference.

# TECHNICAL INFORMATION

## VDS VIDEO. CITYLINE

CITYLINE PANEL														
	PANEL	FLUSH BOX	PANEL	FLUSH BOX	JOINING BOLTS	EXTENSION MODULE	POWER SUPPLY	4 WAYS DISTRIBUTOR	LOFT MONITOR B/W	COLOUR	CONEC.	VEO MONITOR	VEO CONNECTOR	
N° APART.	SERIES	REF.	REF.	REF.	REF.	REF. 8829	REF. 2441	REF. 4830	REF. 2449	REF. 3311	REF. 3305	REF. 3414	REF. 9401	REF. 9402
2	S1	70007	8851					1		2	2	2	2	2
4	S2	70017	8852				ref.2008	1	1	4	4	4	4	4
6	S3	70027	8853				ref.2008	1	2	6	6	6	6	6
8	S4	70047	8854				ref.2008	1	2	8	8	8	8	8
10	S5	70127	8855				1	1	3	10	10	10	10	10
12	S5	70137	8855				1	1	3	12	12	12	12	12
14	S6	70227	8856				1	1	4	14	14	14	14	14
16	S6	70237	8856				1	1	4	16	16	16	16	16
18	S7	70327	8857				2	1	5	18	18	18	18	18
20	S7	70337	8857				2	1	5	20	20	20	20	20
22	S8	71147	8858				2	1	6	22	22	22	22	22
24	S8	71157	8858				2	1	6	24	24	24	24	24
26	S9	71627	8982				2	1	7	26	26	26	26	26
28	S9	71637	8982				2	1	7	28	28	28	28	28
30	S6	70227	8856	7268	8856	1	2	1	8	30	30	30	30	30
32	S6	70237	8856	7268	8856	1	2	1	8	32	32	32	32	32
34	S6	70237	8856	7027	8856	1	3	1	9	34	34	34	34	34
36	S7	70327	8857	7031	8857	1	3	1	9	36	36	36	36	36
38	S7	70327	8857	7040	8857	1	3	1	10	38	38	38	38	38
40	S7	70337	8857	7040	8857	1	3	1	10	40	40	40	40	40
For more than 40 apartments a digital panel is recommended														
42	S7	7299	8857					2	11	42	42	42	42	42
44	S7	7299	8857					2	11	44	44	44	44	44
46	S7	7299	8857					2	12	46	46	46	46	46
48	S7	7299	8857					2	12	48	48	48	48	48
50	S7	7299	8857					2	13	50	50	50	50	50
60	S7	7299	8857					2	15	60	60	60	60	60
80	S7	7299	8857					2	20	80	80	80	80	80
100	S7	7299	8857					3	25	100	100	100	100	100















\*NOTE: For up to 8 apartments, it is recommended to use an 8-Calls Extension Module (ref.2008). A continuous lock release (ref.67501) will be required. For VAC lock releases, an additional power supply 12Vac/1,5A (ref.4800) is required or a Vac lock release activator (ref.3264). 2 and 4 outputs distributors exist than can be combined. (See VDS System section). See VIDEO DOOR ENTRY KITS of 1 to 24 lines and 199 KITS in KITS section.



# TECHNICAL INFORMATION









## VDS AUDIO. SKYLINE

SKYLINE PANEL														
N° APART.	SERIES	FRAME	FRAME REF.	FLUSH BOX	JOINING BOLTS	CABLE	AMPLI.	201	202	204	BLANK V	BLANK W	POWER SUPPLY	LOFT TELEPHONE
					REF. 8829	REF. 2541	REF. 7415	REF. 7376	REF. 7372	REF. 7371	REF. 7442	REF. 7443	REF. 4830	REF. 3390
2	S4	3V	7333	8854			1	1					1	2
4	S4	3V	7333	8854			1		1				1	4
6	S5	4V	7334	8855			1	1	1				1	6
8	S5	4V	7334	8855			1			1			1	8
10	S6	5V	7335	8856			1	1		1			1	10
12	S6	5V	7335	8856			1		1	1			1	12
14	S7	6V	7336	8857			1	1	1	1			1	14
16	S7	6V	7336	8857			1			2			1	16
18	S8	7V	7337	8858			1	1		2			1	18
20	S8	7V	7337	8858			1		1	2			1	20
22	S9	8V	7338	8982			1	1	1	2			1	22
24	S9	8V	7338	8982			1			3			1	24
24	S5	4V	7334 <sup>x2</sup>	8855 <sup>x2</sup>	1	1	1			3			1	24
26	S6	5V	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1	1	2	2	1		1	26
28	S6	5V	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1		1	3	1		1	28
30	S6	5V	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1	1	1	3			1	30
32	S6	5V	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1		2	3			1	32
32	S7	6V	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1			4		1	1	32
34	S7	6V	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1	1		4	1		1	34
36	S7	6V	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1		1	4	1		1	36
38	S7	6V	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1	1	1	4			1	38
40	S7	6V	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1			5			1	40

\*NOTE: If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1,5A) or an AC electric lock commander (ref.3264) are required. There are two distributor models, 2 and 4 ways, that can be combined in an installation. X2 = Order 2 units of the indicated reference.

# TECHNICAL INFORMATION

VDS AUDIO. CITYLINE

CITYLINE PANEL									
N° APART.	SERIES	PANEL	FLUSH BOX	ADDITIONAL PANEL	FLUSH BOX	JOINING BOLTS	EXTENSION MODULE	POWER SUPPLY	LOFT TELEPHONE
						REF. 8829	REF. 2441	REF. 4830	REF. 3390
2	S1	70003	8851					1	2
4	S2	70013	8852				ref.2008	1	4
6	S3	70023	8853				ref.2008	1	6
8	S4	70043	8854				ref.2008	1	8
10	S5	70123	8855				1	1	10
12	S5	70133	8855				1	1	12
14	S6	70223	8856				1	1	14
16	S6	70233	8856				1	1	16
18	S7	70323	8857				2	1	18
20	S7	70333	8857				2	1	20
22	S8	71143	8858				2	1	22
24	S8	71153	8858				2	1	24
26	S9	71623	8982				2	1	26
28	S9	71633	8982				2	1	28
30	S6	70223	8856	7268	8856	1	2	1	30
32	S6	70233	8856	7268	8856	1	2	1	32
34	S6	70233	8856	7027	8856	1	3	1	34
36	S7	70323	8857	7031	8857	1	3	1	36
38	S7	70323	8857	7040	8857	1	3	1	38
40	S7	70333	8857	7040	8857	1	3	1	40

NOTE: A continuous lock release (ref. 67501) will be required. For VAC lock releases, an additional power supply 12Vac/1,5A (ref. 4800) is required or a Vac lock release activator (ref. 3264). Up to 8 apartments, it is recommended to use a 8-Calls Extension Module ref. 2008).

# TECHNICAL INFORMATION

4+N AUDIO. SKYLINE

SKYLINE PANEL	FRAME REF.	FLUSH BOX	JOINING BOLTS	CABLE	AMPLIFIER	201	202	204	BLANK V	BLANK W	POWER SUPPLY	LOFT TELEPHONE	N° SERIES	
													APART.	REF.
2	S4	7333	8854		1	1					1	2	ref.	3393
4	S4	7333	8854		1		1				1	4	ref.	4800
6	S5	7334	8855		1	1	1				1	6	ref.	7443
8	S5	7334	8855		1			1			1	8	ref.	7442
10	S6	7335	8856		1	1		1			1	10	ref.	7369
12	S6	7335	8856		1		1	1			1	12	ref.	7370
14	S7	7336	8857		1	1	1	1			1	14	ref.	7374
16	S7	7336	8857		1			2			1	16	ref.	7400
18	S8	7337	8858		1	1		2			1	18	ref.	2540
20	S8	7337	8858		1		1	2			1	20	ref.	8829
22	S9	7338	8982		1	1	1	2			1	22	ref.	8854
24	S9	7338	8982		1			3			1	24	ref.	8854
24	S5	7334 <sup>x2</sup>	8855 <sup>x2</sup>	1	1			3			1	24	ref.	8854
26	S6	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1	2	2	1		1	26	ref.	8854
28	S6	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1	1	3	1		1	28	ref.	8854
30	S6	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1	1	1	3			1	30	ref.	8854
32	S6	7335 <sup>x2</sup>	8856 <sup>x2</sup>	1	1		2	3			1	32	ref.	8854
32	S7	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1			4		1	1	32	ref.	8854
34	S7	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1		4	1		1	34	ref.	8854
36	S7	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1		1	4	1		1	36	ref.	8854
38	S7	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1	1	1	4			1	38	ref.	8854
40	S7	7336 <sup>x2</sup>	8857 <sup>x2</sup>	1	1			5			1	40	ref.	8854

A 12Vac electrical lock release is required (ref.30711).

# TECHNICAL INFORMATION

## 4+N AUDIO. CITY CLASSIC

CITYLINE CLASSIC PANEL					
		PANEL	FLUSH BOX	POWER SUPPLY	TELEPHONE
N° APARTMENTS	SERIES			ref.4800	ref.3393
1	S1	8500	8851	1	1
2	S1	8501	8851	1	2
3	S3	8560	8853	1	3
4	S2	8532	8852	1	4
5	S5	8622	8855	1	5
6	S3	8562	8853	1	6
8	S4	8591	8854	1	8
10	S5	8620	8855	1	10
12	S5	8621	8855	1	12
14	S6	8660	8856	1	14
16	S6	8661	8856	1	16
18	S7	8700	8857	1	18
20	S7	8701	8857	1	20
22	S8	8740	8858	1	22
24	S8	8741	8858	1	24
26	S9	8072	8982	1	26
28	S9	8073	8982	1	28

A 12Vac electrical lock release is required (ref.30711).

# TECHNICAL INFORMATION

## DUOX VIDEO. 1/W KIT



- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)\*.
- A1 Power supply 18Vdc + 12Vac (ref.4812).
- D1 DUOX power supply adaptor module (ref.3243).
- M1 DUOX LOFT monitor (ref.3412).
- L1 Line adaptor (ref.3255).

\*Not included in kit.

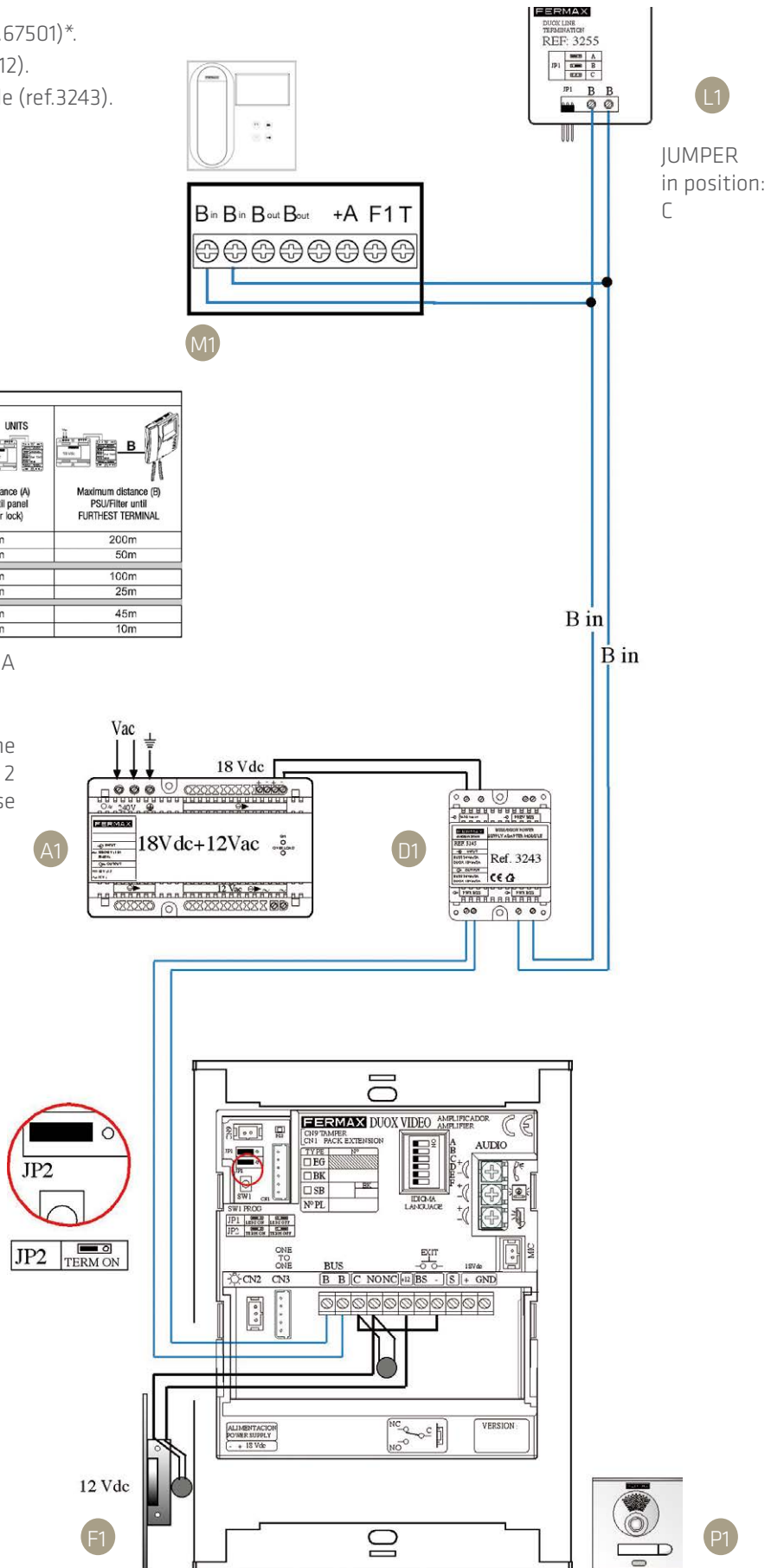


For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)

1/W AND 2/W DUOX VIDEO KIT INSTALLATION				
SECTION CABLE	TERMINALS per home without additional PSU	UNITS	UNITS	UNITS
		Maximum distance (A) PSU/Filter unit (panel+door lock) (i)	Maximum distance (A) PSU/Filter unit (panel (without door lock)	Maximum distance (B) PSU/Filter unit FURTHEST TERMINAL
2 x 1 mm <sup>2</sup>	1 2 / 3	50m 30m	90m 70m	200m 50m
2 x 0,5 mm <sup>2</sup>	1 2 / 3	20m 15m	60m 30m	100m 25m
2 x 0,2 mm <sup>2</sup>	1 2 / 3	10m 5m	20m 15m	45m 10m

(i) For 12 Vdc door lock max. 250mA supplied from amplifier.

In case of existing spare wires in same slope, recommended to reinforce the 2 bus wires instead of remaining as loose wires (possible antenna effect)

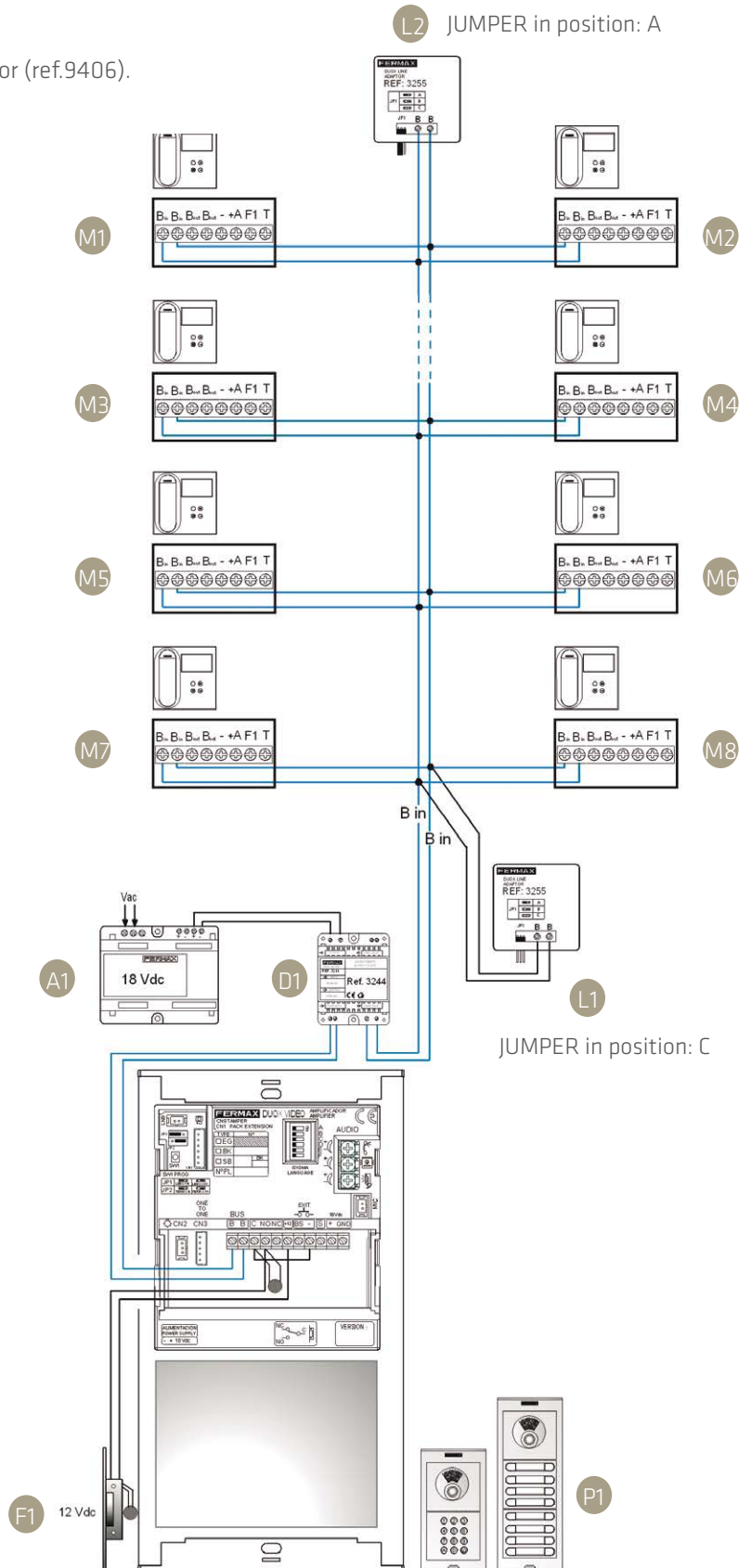


### 1 ACCESS DUOX VIDEO WITH SKYLINE PANEL. INSTALLATION: 2 WIRES

- P1 DUOX SKYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4812).
- D1 DUOX filter (ref.3244).
- M1 M8 VEO monitor (ref.9405) + VEO connector (ref.9406).
- L1 L2 Line adaptor (ref.3255)



For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)

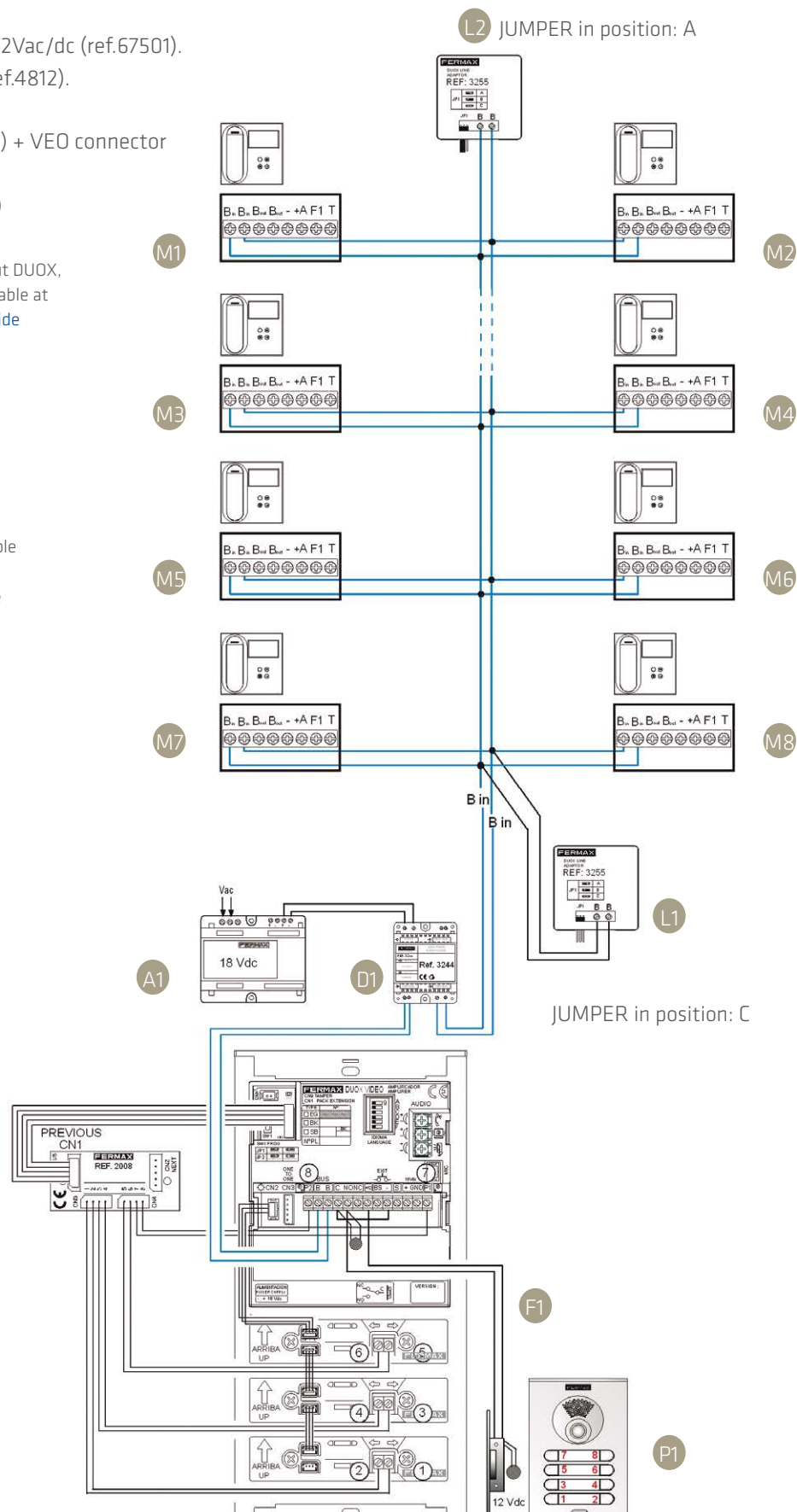


### 1 ACCESS DUOX VIDEO WITH CITYLINE PANEL. INSTALLATION: 2 WIRES

- P1** DUOX CITYLINE panel.
- F1** Electrical lock release 12Vac/dc (ref.67501).
- A1** Power supply 18Vdc (ref.4812).
- D1** DUOX filter (ref.3244).
- M1** **M8** VEO monitor (ref.9405) + VEO connector (ref.9406).
- L1** **L2** Line adaptor (ref.3255)

For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)

It's recommended to use 1mm<sup>2</sup> parallel cable (ref.5925). It's NOT recommended to use unipolar cable.



# TECHNICAL INFORMATION

## DUOX AUDIO. 1/W KIT

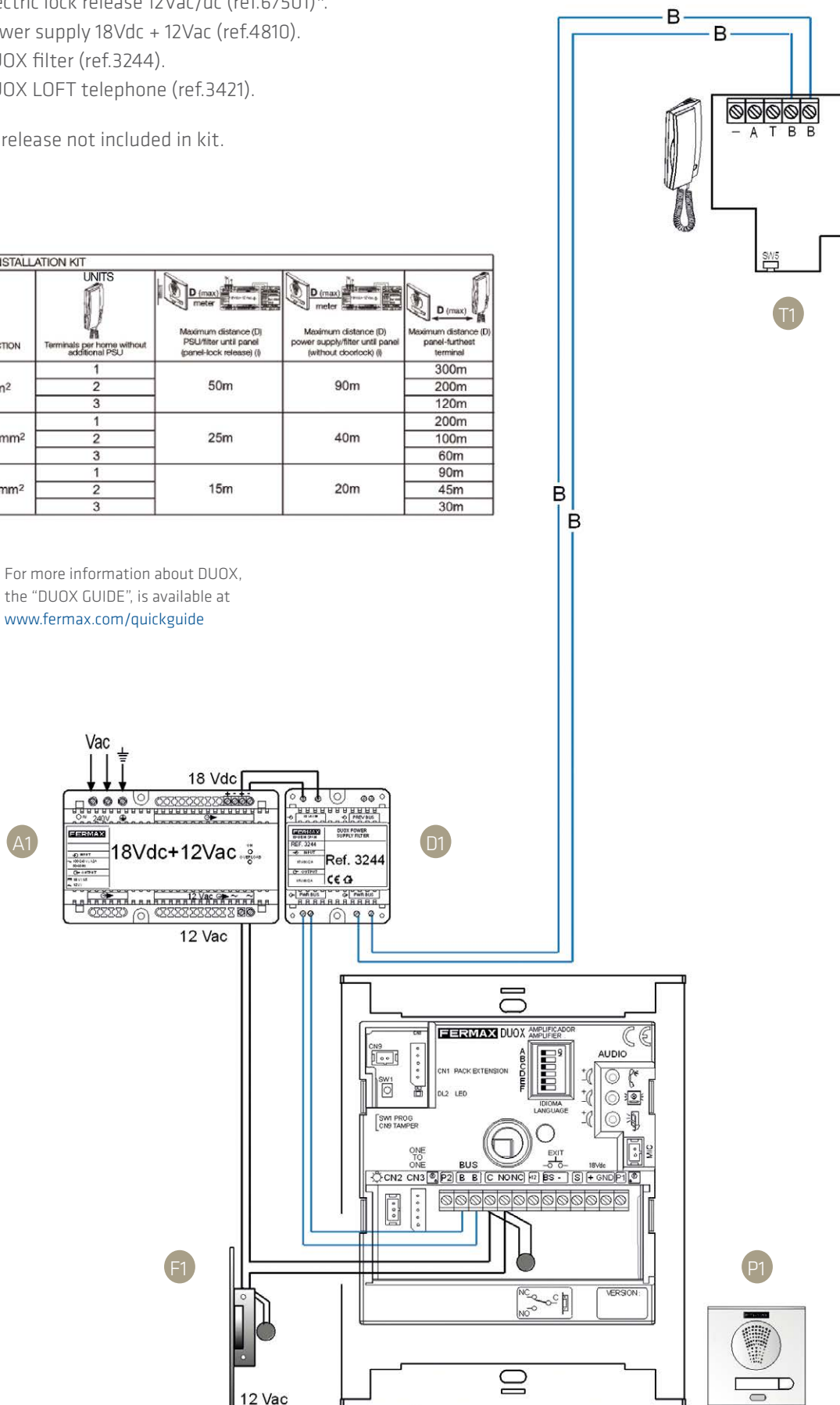
- P1 DUOX CITYLINE panel.
- F1 Electric lock release 12Vac/dc (ref.67501)\*.
- A1 Power supply 18Vdc + 12Vac (ref.4810).
- D1 DUOX filter (ref.3244).
- T1 DUOX LOFT telephone (ref.3421).

\* Lock release not included in kit.

AUDIO INSTALLATION KIT				
CABLE SECTION	UNITS	D (max) meter	D (max) meter	D (max) meter
	Terminals per home without additional PSU	Maximum distance (D) PSU/filter unit panel (panel-lock release) (I)	Maximum distance (D) power supply/filter unit panel (without doorlock) (I)	Maximum distance (D) panel-furthest terminal
2 x 1 mm <sup>2</sup>	1	50m	90m	300m
	2			200m
	3			120m
2 x 0,5 mm <sup>2</sup>	1	25m	40m	200m
	2			100m
	3			60m
2 x 0,2 mm <sup>2</sup>	1	15m	20m	90m
	2			45m
	3			30m



For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)





# TECHNICAL INFORMATION

## DUOX AUDIO. 2/W KIT



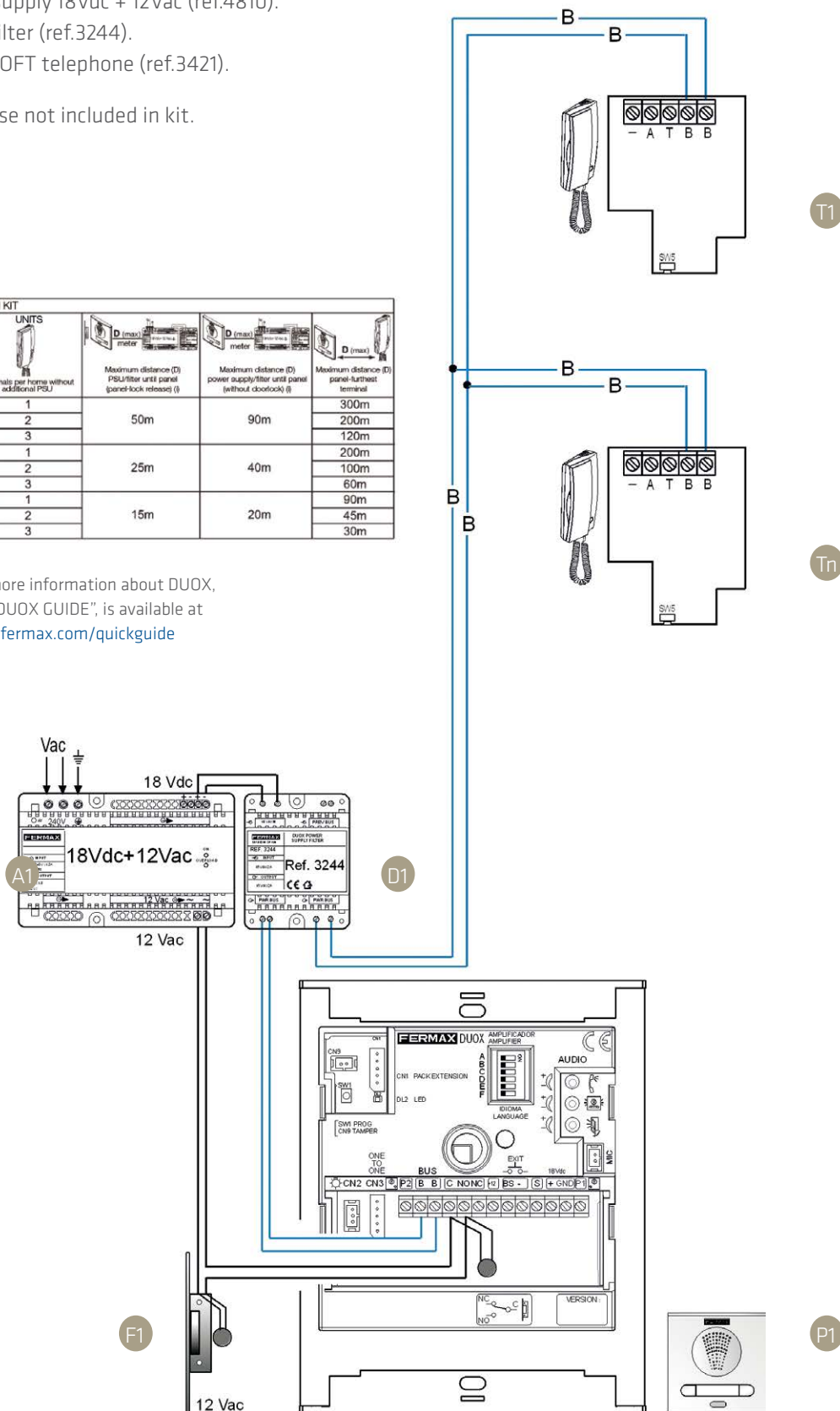
- P1 DUOX CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)\*.
- A1 Power supply 18Vdc + 12Vac (ref.4810).
- D1 DUOX filter (ref.3244).
- T1 DUOX LOFT telephone (ref.3421).

\* Lock release not included in kit.

AUDIO INSTALLATION KIT				
CABLE SECTION	UNITS	D (max) meter	D (max) meter	D (max) panel-furthest terminal
	Terminals per home without additional PSU	Maximum distance (D) PSU/filter unit panel (panel-lock release) (f)	Maximum distance (D) power supply/filter unit panel (without doorlock) (f)	
2 x 1 mm <sup>2</sup>	1	50m	90m	300m
	2			200m
	3			120m
2 x 0,5 mm <sup>2</sup>	1	25m	40m	200m
	2			100m
	3			60m
2 x 0,2 mm <sup>2</sup>	1	15m	20m	90m
	2			45m
	3			30m



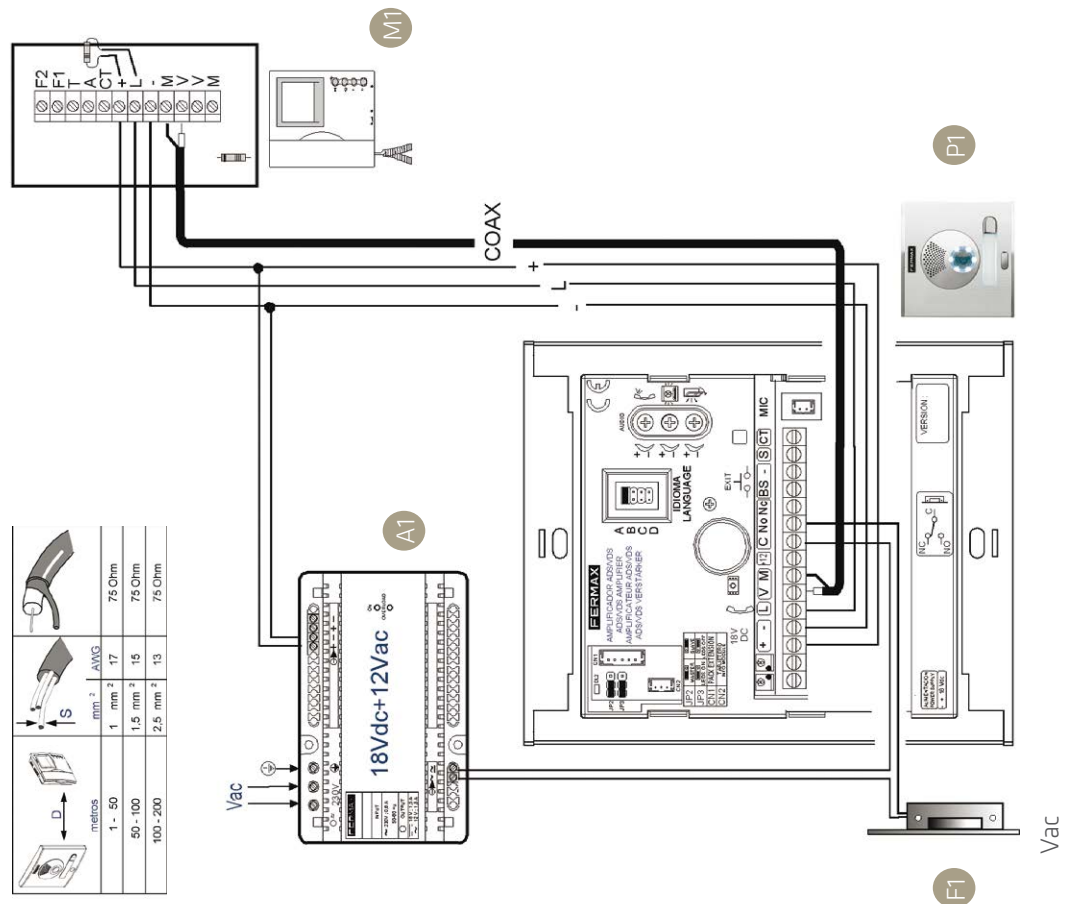
For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)



VDS VIDEO KIT. INSTALLATION: 3+COAX

- P1 CITYLINE kit panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)\*.
- A1 Power supply 18Vdc/12Vac (ref.4810).
- M1 LOFT monitor (B/W ref.3311 or COLOUR ref.3305) + Connector (ref.3314).

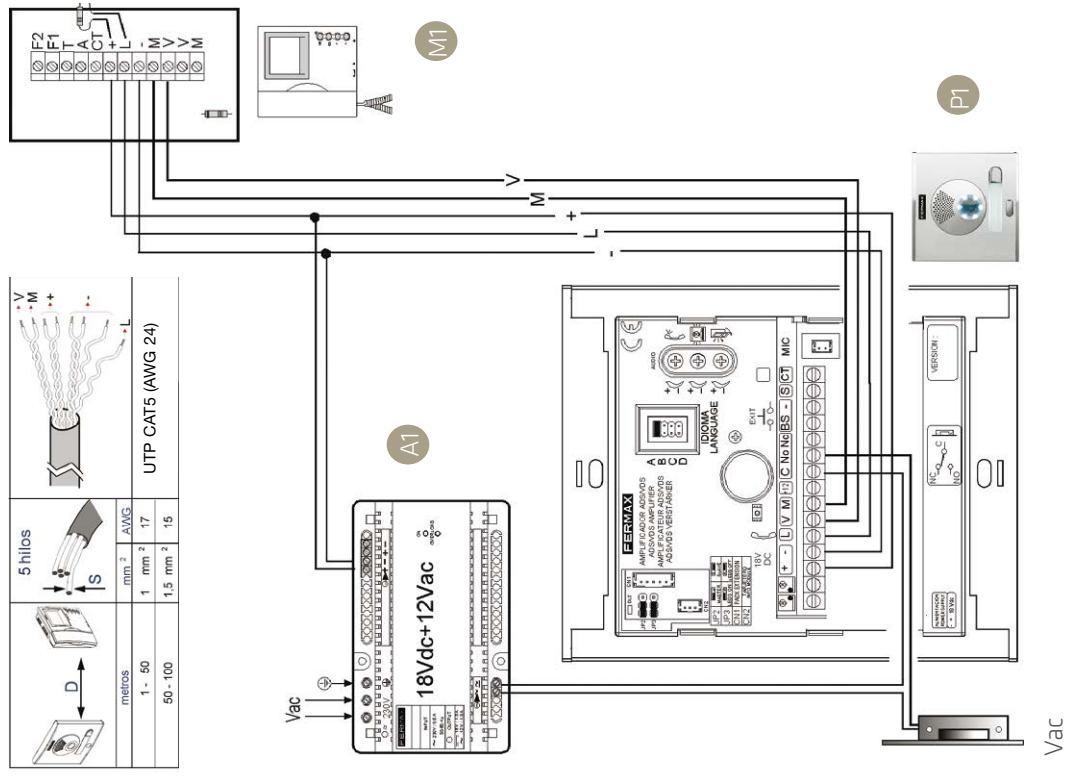
\* Lock release not included in kit.



VDS VIDEO KIT. INSTALLATION: 5 WIRES/UTP CAT5

- P1 CITYLINE kit panel.
- F1 Electrical lock release 12Vac/dc (ref.67501)\*.
- A1 Power supply 18Vdc/12Vac (ref.4810).
- M1 LOFT monitor (B/W ref.3311 or COLOUR ref.3305) + Connector (ref.3314).

\* Lock release not included in kit.



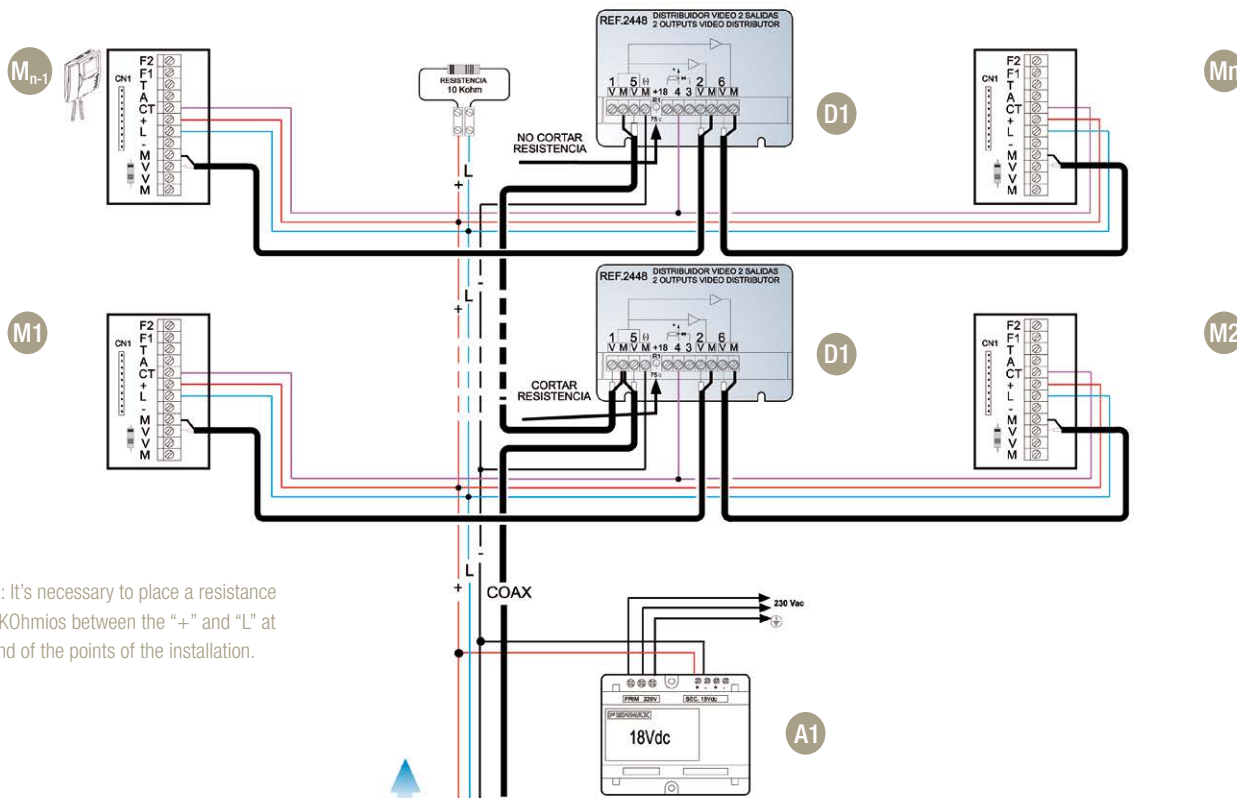
# TECHNICAL INFORMATION

## VDS VIDEO. SKYLINE / CITYLINE

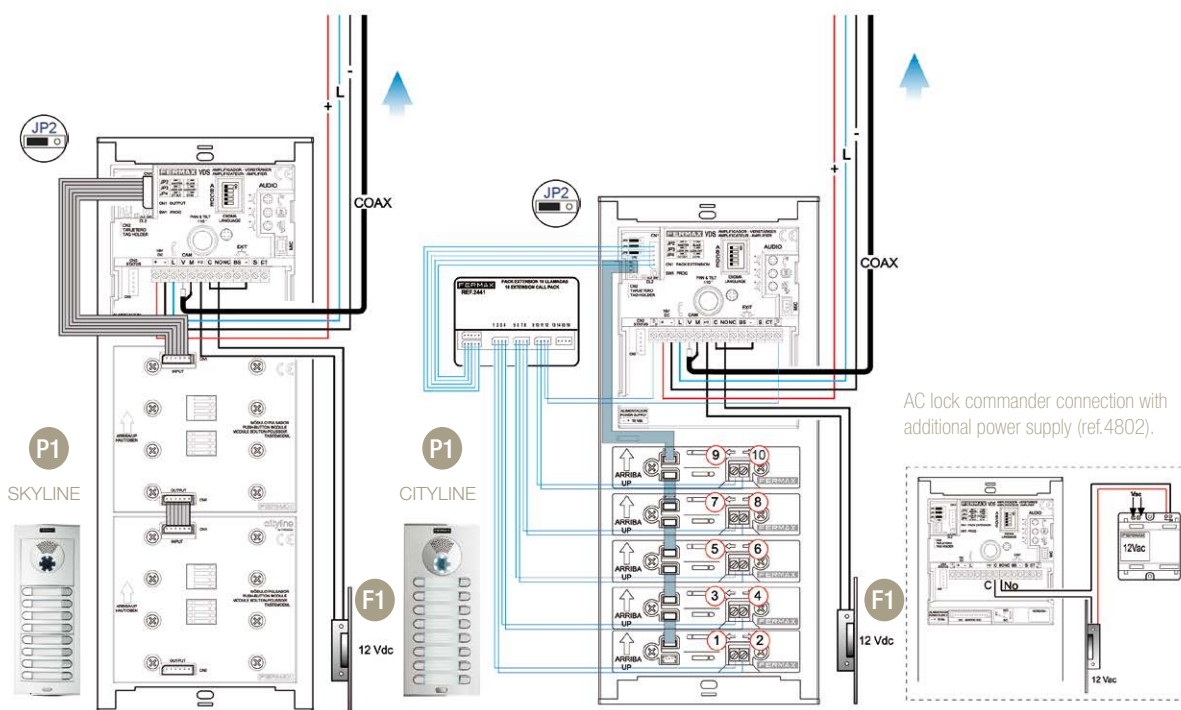
### 1 ACCESS VDS VIDEO WITH SKYLINE/CITYLINE PANEL. INSTALLATION: 3+COAX

- P1 SKYLINE/CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- D1 2 ways video distributor (ref.2448).
- M1 LOFT monitor (B/W ref.3311 or Colour ref.3305)+ VDS Connector (ref.3314)

metres	mm <sup>2</sup>	AWG	
1 - 50	1 mm <sup>2</sup>	17	75 Ohm
50 - 100	1,5 mm <sup>2</sup>	15	75 Ohm
100 - 200	2,5 mm <sup>2</sup>	13	75 Ohm



NOTE: It's necessary to place a resistance of 10KOhms between the "+" and "L" at the end of the points of the installation.



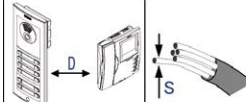
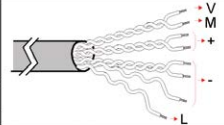
AC lock commander connection with additional power supply (ref.4802).

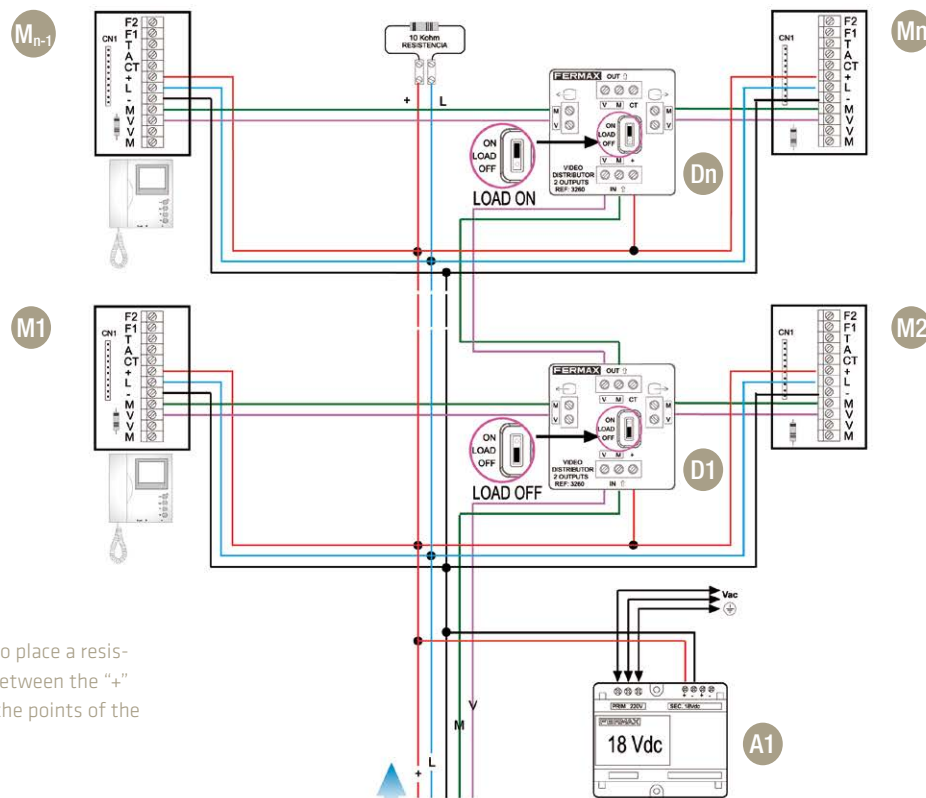
# TECHNICAL INFORMATION

## VDS VIDEO. SKYLINE / CITYLINE

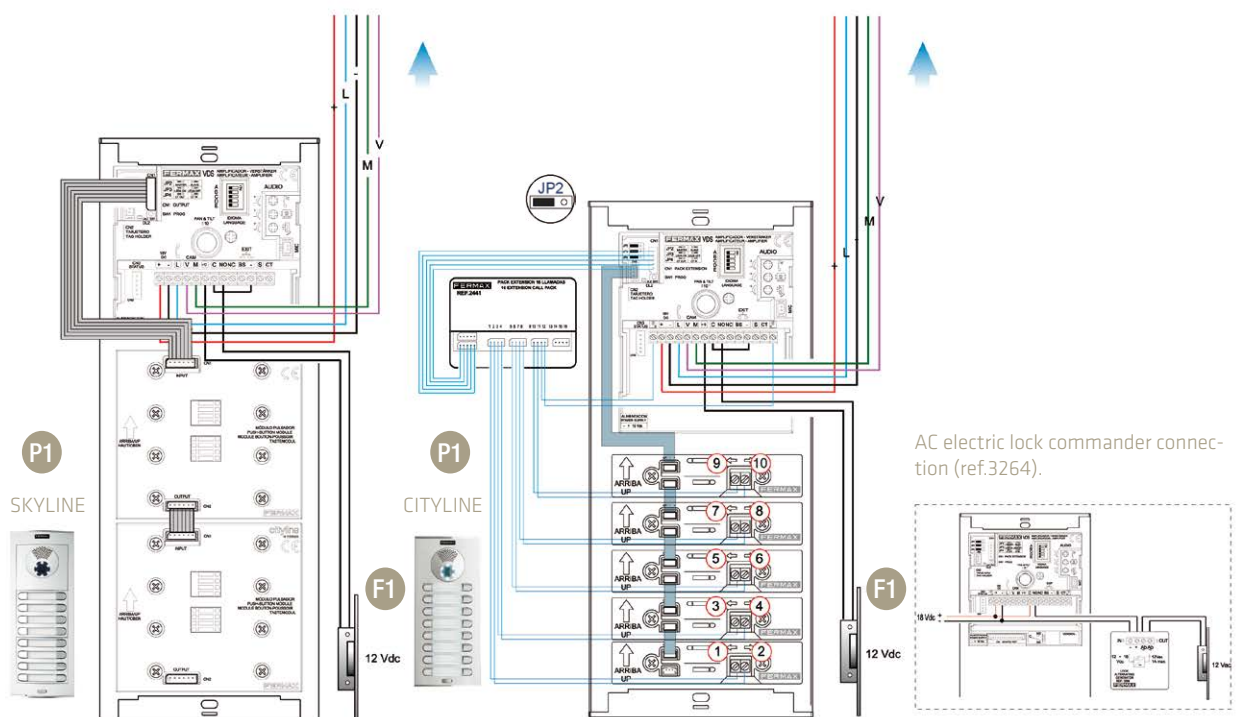
### 1 ACCESS VDS VIDEO WITH SKYLINE/CITYLINE PANEL. INSTALLATION: 5 WIRES / UTP CAT5

- P1** SKYLINE/CITYLINE panel.
- F1** Electrical lock release 12Vac/dc (ref.67501).
- A1** Power supply 18Vdc (ref.4830).
- D1** 2 ways video Minidistributor (ref.3260).
- M1** LOFT monitor (B/W ref.3311 or Colour ref.3305)+ VDS Connector

	
metres	mm <sup>2</sup> AWG
1 - 50	1 mm <sup>2</sup> 17
50 - 100	1,5 mm <sup>2</sup> 15
UTP CAT5 (AWG 24)	



NOTE: It's necessary to place a resistance of 10kOhmios between the "+" and "L" at the end of the points of the installation.



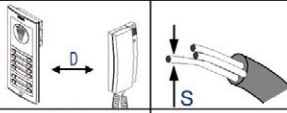
AC electric lock commander connection (ref.3264).

# TECHNICAL INFORMATION

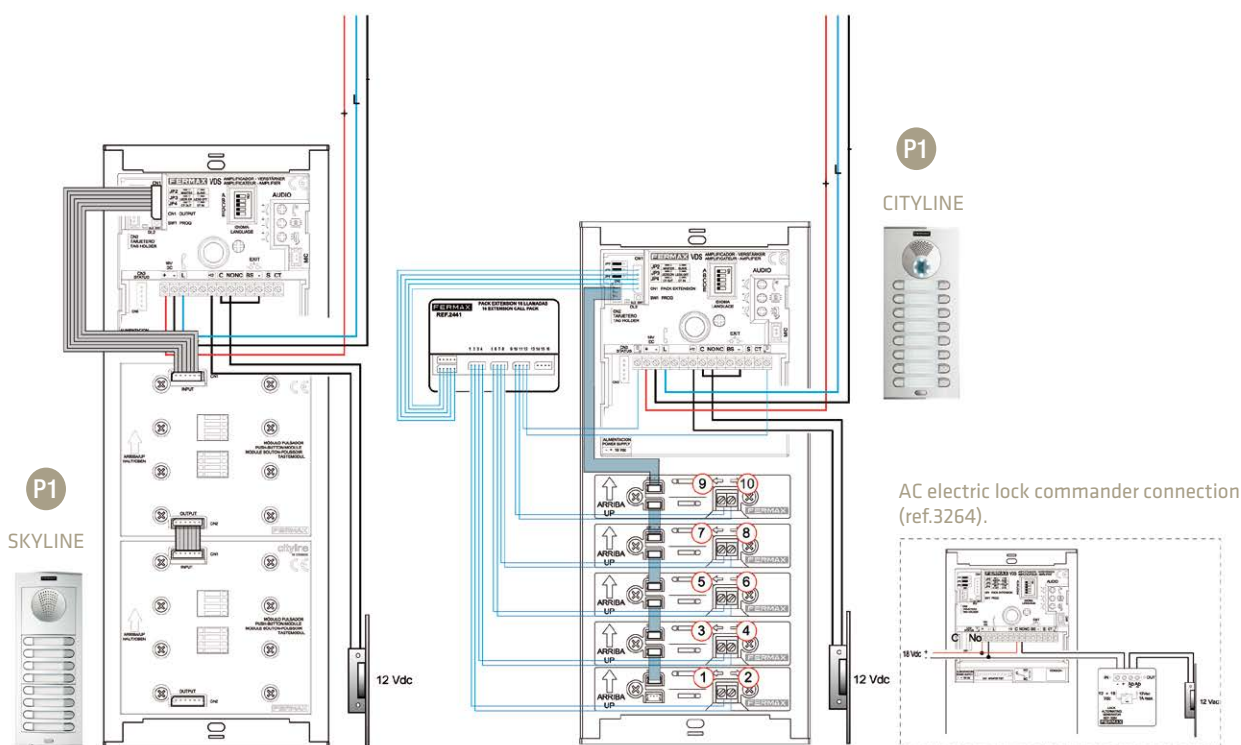
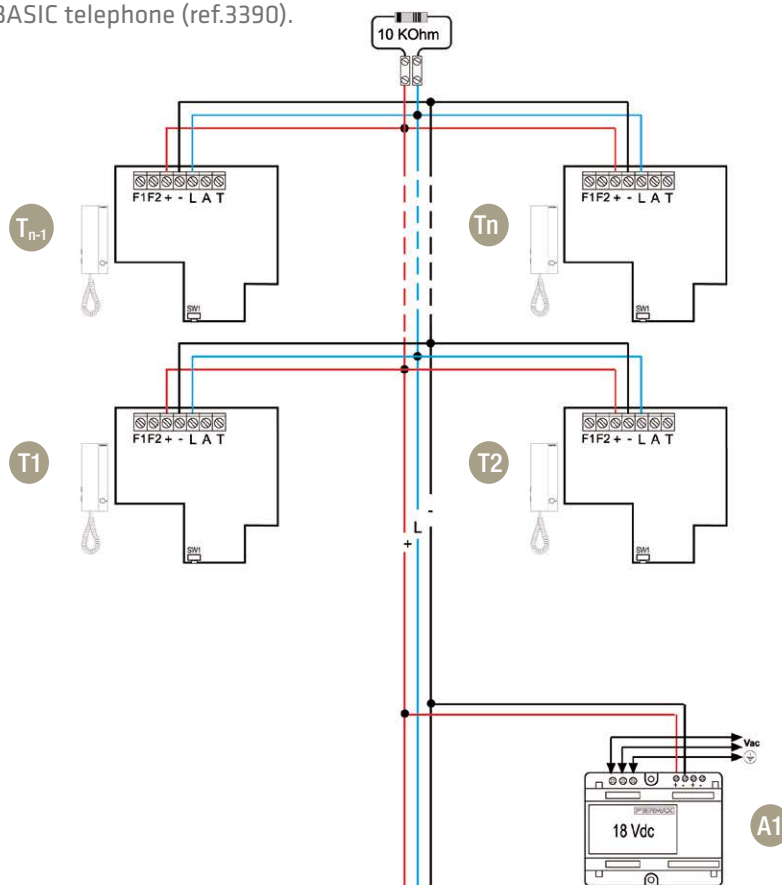
## VDS AUDIO. SKYLINE / CITYLINE

### 1 ACCESS VDS AUDIO WITH SKYLINE/CITYLINE PANEL

- P1 SKYLINE/CITYLINE panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 18Vdc (ref.4830).
- T1 VDS LOFT BASIC telephone (ref.3390).

	
metres	
1 - 50	1 mm <sup>2</sup>
50 - 100	1,5 mm <sup>2</sup>
100 - 200	2,5 mm <sup>2</sup>

NOTE: It's necessary to place a resistance of 10KOhms between the "+" and "L" at the end of the points of the installation.



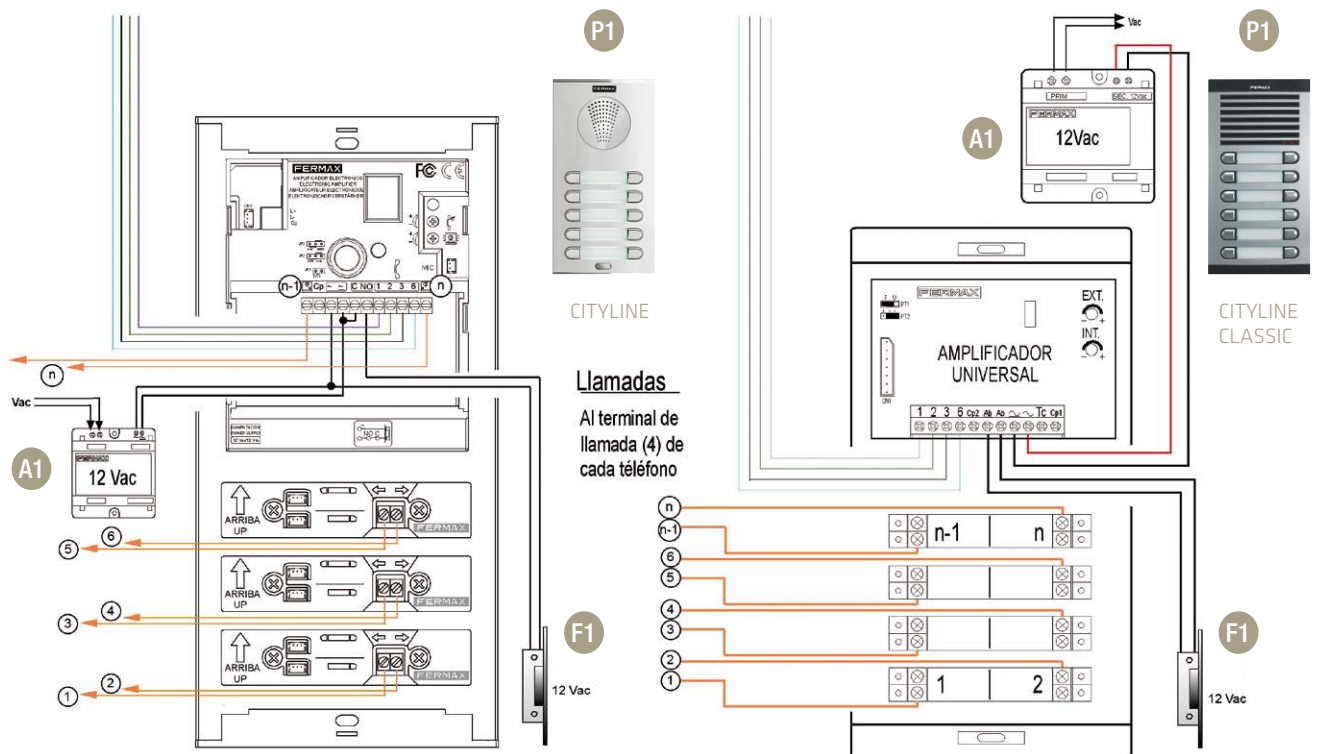
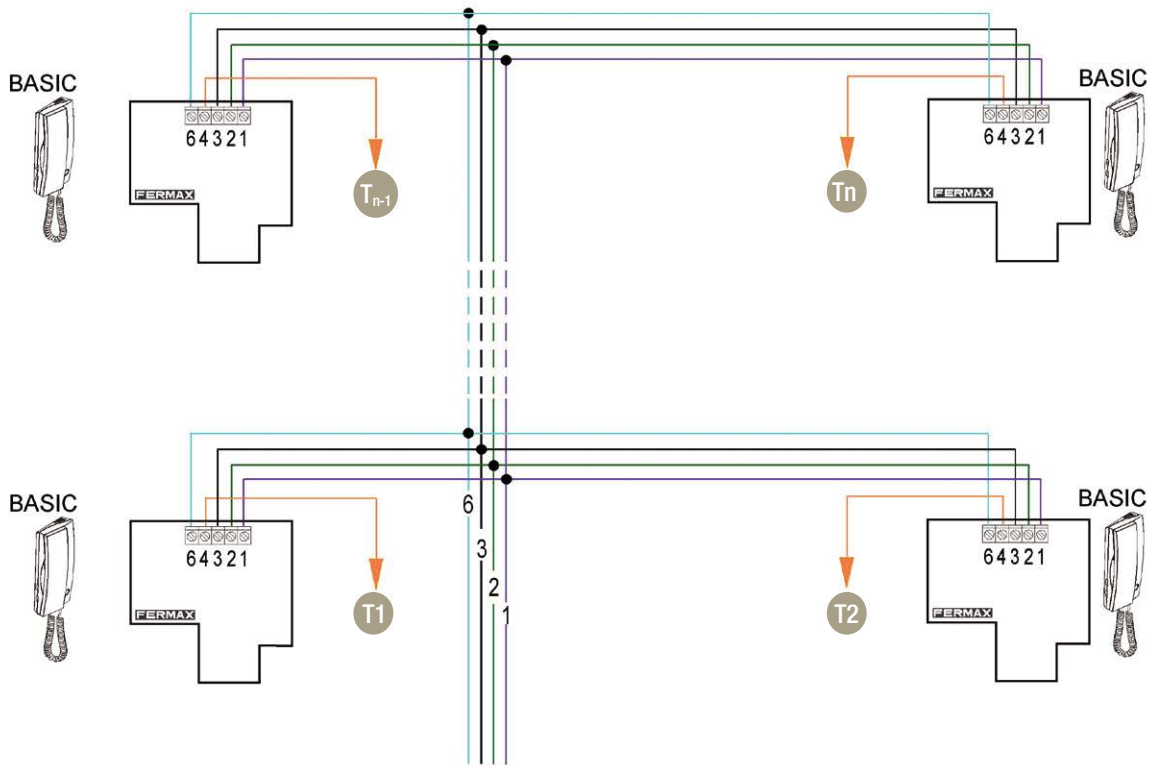
# TECHNICAL INFORMATION

## 4+N AUDIO. CITYLINE/CLASSIC

### 1 ACCESS 4+N AUDIO WITH CITYLINE/CITYLINE CLASSIC PANEL

- P1 CITYLINE/CITYLINE CLASSIC panel.
- F1 Electrical lock release 12Vac/dc (ref.67501).
- A1 Power supply 12Vac (ref.4802).
- T1 LOFT BASIC telephone (ref.3393).

metres	mm <sup>2</sup>		AWG	
	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
0 - 100	0,5mm <sup>2</sup>	20	1 mm <sup>2</sup>	17
100 - 300	1 mm <sup>2</sup>	17	1 mm <sup>2</sup>	17



# TECHNICAL INFORMATION

## DUOX. FEATURES

- Up to 999.999 apartments.
- Up to 10 General entrance panels.
- Up to 100 Interior blocks with 10 panels and 9.999 apartments.
- Up to 100 Sub-blocks with 10 panels and 99 apartments.



For more information about DUOX, the "DUOX GUIDE", is available at [www.fermax.com/quickguide](http://www.fermax.com/quickguide)

### 1 RISER: VIDEO BUILDING INSTALLATION

Description			UP TO 40 TERMINALS				
			CABLE SECTION	CASCADE	2 DERIVA.	4 DERIVA.	6 DERIVA.
A		Panel - Power supply	2x1 mm <sup>2</sup> Ref.5925	30 m	30 m	20 m	20 m
			2x0,5 mm <sup>2</sup>	20 m	20 m	20 m	20 m
			2x0,22 mm <sup>2</sup>	15 m	15 m	15 m	15 m
B		Power supply - first branch	2x1 mm <sup>2</sup> Ref.5925	15 m			
			2x0,5 mm <sup>2</sup>				
			2x0,22 mm <sup>2</sup>				
C		Panel - furthest terminal	2x1 mm <sup>2</sup> Ref.5925	162 m	122 m	82 m	73 m
			2x0,5 mm <sup>2</sup>	152 m	112 m	82 m	73 m
			2x0,22 mm <sup>2</sup>	147 m	107 m	77 m	68 m

IMPORTANT: Maximum distance between branch and terminal is 20 metres. For longer distances, consider as an additional branch. Estimated distance between floors is 3 metres.

### 2 RISER: VIDEO BUILDING INSTALLATION

Description			UP TO 40 TERMINALS			
			CABLE SECTION	CASCADE	2 DERIVA.	4 DERIVA.
A		Panel - Power supply	2x1 mm <sup>2</sup> Ref.5925	15 m	20 m	20 m
			2x0,5 mm <sup>2</sup>	15 m	20 m	25 m
			2x0,22 mm <sup>2</sup>	10 m	10 m	10 m
B		Power supply - first branch	2x1 mm <sup>2</sup> Ref.5925	5 m		
			2x0,5 mm <sup>2</sup>			
			2x0,22 mm <sup>2</sup>			
C		Panel - furthest terminal	2x1 mm <sup>2</sup> Ref.5925	77 m	72 m	57 m
			2x0,5 mm <sup>2</sup>	77 m	72 m	57 m
			2x0,22 mm <sup>2</sup>	72 m	62 m	47 m

IMPORTANT: Maximum distance between branch and terminal is 20 metres. For longer distances, consider as an additional branch. Estimated distance between floors is 3 metres.

### 3 RISER: VIDEO BUILDING INSTALLATION

Description			UP TO 40 TERMINALS			
			CABLE SECTION	CASCADE	2 DERIVA.	4 DERIVA.
A		Panel - Power supply	2x1 mm <sup>2</sup> Ref.5925		10 m	
			2x0,5 mm <sup>2</sup>		10 m	
			2x0,22 mm <sup>2</sup>		10 m	
B		Power supply - first branch	2x1 mm <sup>2</sup> Ref.5925	5 m		
			2x0,5 mm <sup>2</sup>			
			2x0,22 mm <sup>2</sup>			
C		Panel - furthest terminal	2x1 mm <sup>2</sup> Ref.5925	72 m	62 m	47 m
			2x0,5 mm <sup>2</sup>	72 m	62 m	47 m
			2x0,22 mm <sup>2</sup>	72 m	62 m	47 m

IMPORTANT: Maximum distance between branch and terminal is 20 metres. For longer distances, consider as an additional branch. Estimated distance between floors is 3 metres.

DERIVA.=Derivations

# TECHNICAL INFORMATION

## TERMINALS AND PANELS



### IN THE APARTMENT

DEPENDING ON THE REQUIRED TECHNOLOGY, CHOOSE BETWEEN MONITORS AND TELEPHONES

	MONITORS									TELEPHONES		
TECHNOLOGY	VEO	VEO-XS	LOFT	iLOFT	iLOFT PURE	7" SMILE	3,5" SMILE	7" VIVO	10" VIVO PLUS	LOFT	iLOFT	CITY-MAX
DUOX	YES	YES		YES	YES					YES		YES
VDS	YES		YES	YES	YES	YES	YES			YES	YES	
ANALOGUE MDS			YES							YES		YES
LYNX						YES		YES	YES		YES	



### IN THE STREET

DEPENDING ON THE REQUIRED TECHNOLOGY, CHOOSE THE OUTDOOR ENTRY PANEL REQUIRED

	SKYLINE		CITYLINE PUSH BUTTONS		CITYLINE DIGITAL	CITYLINE DIRECT		CITYLINE CLASSIC	MARINE PUSH BUTTONS		MARINE DIGITAL	HI-LINE	URBANLINE	
TECHNOLOGY	VIDEO	AUDIO	VIDEO	AUDIO	VIDEO	VIDEO	AUDIO	AUDIO	VIDEO	AUDIO	VIDEO	VIDEO	VIDEO	AUDIO
DUOX	YES	YES	YES	YES	YES	YES	YES		YES	YES	YES			
VDS	YES	YES	YES	YES	YES	YES	YES		YES	YES	YES			
ANALOGUE MDS	YES	YES		YES	YES	YES	YES	YES	YES	YES	YES		YES	YES
LYNX	YES				YES						YES	YES		



#### DIMENSIONS MARINE SERIES (MM)

	HEIGHT	WIDTH
ST1	180	150
MARK <input type="checkbox"/>		

	HEIGHT	WIDTH
ST2	250	150
MARK <input type="checkbox"/>		

	HEIGHT	WIDTH
ST3	360	150
MARK <input type="checkbox"/>		

	HEIGHT	WIDTH
ST4	485	150
MARK <input type="checkbox"/>		

	HEIGHT	WIDTH
ST SPECIAL		
MARK <input type="checkbox"/>		

#### Amplifier:

- VDS
- DUOX
- 4+N
- LYNX

#### Camera:

- COLOUR

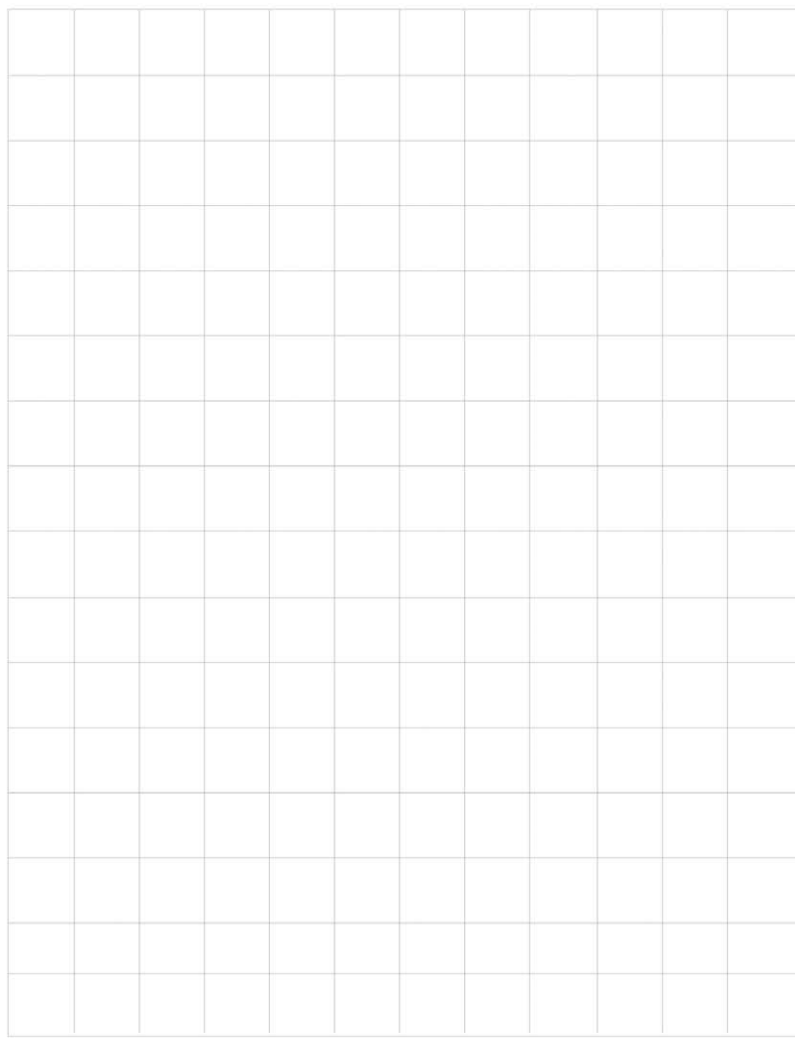


150



Complements or printing (draw here)

#### DESIGN YOUR SPECIAL MARINE PANEL



#### MARK THE TYPE OF BOX

- FLUSH BOX
- SURFACE BOX
- WITHOUT BOX

DATE

CUSTOMER NUMBER

CONTACT PERSON

AREA

PRICE

References of our products



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## COMMERCIAL CONDITIONS OF SALE

The present commercial conditions of sale shall be applicable to all sales or deliveries carried out by FERMAX, unless otherwise agreed in writing with the Buyer.

## ORDERS

Orders shall be processed exclusively through authorized distributors.

## DELIVERIES

The delivery dates agreed with FERMAX shall be considered approximate. FERMAX undertakes to do its utmost to comply with the agreed delivery dates, always provided the Buyer facilitates all correct information relating to the order and the delivery with sufficient anticipation.

The delivery term shall be reasonably extended when causes beyond the decision and control of FERMAX prevent to comply with the agreed delivery date.

## ACCEPTANCE OF GOODS

The Buyer shall review and inspect the goods, as to quality and quantity, within the maximum period of five days after the date of delivery.

## OWNERSHIP RESERVE AND RISKS

FERMAX shall continue to be the lawful owner of the Products supplied until the full payment of the agreed amounts. Notwithstanding the above, the risks inherent to the Products supplied shall be conveyed to the Buyer from the moment the Products are delivered by FERMAX.

## PRICES

Prices do not include any indirect taxes applicable according to the legislation in force from time to time. Other taxes, duties and charges that must be applied shall be borne by the Buyer, unless otherwise agreed in writing with FERMAX.

## SHIPPING COSTS

Prices established in offers, orders, catalogues and other documents are EXWORKS prices.

Prices do not include the shipping cost except otherwise clearly indicated.

## PAYMENT

Unless FERMAX and the Buyer agreed otherwise in writing, payments shall be made within the periods established by the legislation in force.

FERMAX may require the necessary guarantees to assure that the Buyer complies with all agreed payment terms and conditions, if appropriate considering the financial position of the latter.

## GUARANTEES

FERMAX shall provide guarantee during a period of TWO (2) YEARS following the date of the sale invoice for any original defects in the Products, subject to the terms and conditions established in the legislation in force and in these Commercial Conditions of Sale. This guarantee shall be processed by the Official Technical Services and Official Distributors of FERMAX, regardless the location of purchase.

The Products processed for guarantee that do not comply with the provisions set forth in the previous paragraph shall be treated as out of guarantee. FERMAX reserves the right to apply the appropriate measures to compensate any possible damages caused.

Any deficiencies beyond the control of FERMAX shall be excluded from the guarantee and liability of the latter, specially when they are the result of normal wear, false information provided by the Buyer, inadequate maintenance, failure to observe the operating instructions, use of any inappropriate material, influence of chemical or electrolytic action or other similar causes.

The guarantee of FERMAX shall be subject to the appropriate compliance with all payment terms and conditions agreed with the Buyer.

## DAMAGES

Under no circumstances shall the Buyer be authorized to make contractual or extracontractual claims for damages deriving from, but not limited to, the loss of production, use, orders, profits, nor for any other direct, indirect or consequential damages.

FERMAX shall be only liable to compensate the client for the costs associated to repairing the deficiencies or incidents occurred during the process of supplying the goods that are attributable to the former.

## RETURNS

All returns of material must attach a Return Authorization Document to be obtained from the Sales Department.

All materials must be in mint condition and include the original packaging before any return is authorized. Depreciations may be applied according to the corresponding policies in force.

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