

# **2022** GENERAL CATALOGUE







# RESIDENTIAL COMMUNICATION

There is a real passion behind each of our products. Making every effort to enable the communication, connection and accessibility between public and private spaces is what has driven us since our beginning in 1949.

In our trajectory of more than 70 years, we have had the privilege of welcoming millions of people into thousands of homes around the world thanks to our continuous commitment to innovation, technology and design.

In a society being in constant evolution, we want to continue to be by your side, listen to you and develop technology that responds to the new needs that arise in an increasingly digital and connected world.

Innovation is our principle, allowing us to provide a unique added value through our connected video door entry systems. So that you can be anywhere you want to be and be at home at the same time.

FERMAX. Connecting homes, connecting with you.













Since 1949 we have been a leading manufacturer of audio & video door entry systems and access control systems. We offer home automation and security solutions for residences including connectivity features.

# VIDEO DOOR ENTRY SYSTEM IN 2 WIRES

DUOX PLUS is the only fully digital door entry system that works with 2 non-polarised wires from start to finish in the installation.

The system is designed to work with all kinds of projects; large or small, simple or complex, vertical structures or horizontal installations.

Up to 10 panels and 10 guard units at the general entrances. Up to 10 panels and 10 guard units in each building or block of apartments. Up to 100 blocks and sub-blocks.

It offers a broad variety of outdoor panels and indoor terminals with an exclusive design and advanced functions, without any increase in price.

With DUOX PLUS, Fermax can introduce any kind of building or home to the world of connectivity, incorporating mobile call divert into even the most "basic" monitors.

DUOX PLUS brings the most powerful 2-wire digital system to your home.







# IP VIDEO DOOR ENTRY SYSTEM

FERMAX MEET system is a 100% IP technology based on a Point-to-Point infrastructure, highly efficient, flexible and powerful.

It allows the installer to freely assign the range of IP addresses according to the needs of each project, and thus facilitate the control of the networks.

With MEET, the option to receive calls on the mobile phone comes as standard, provided that there is a monitor installed in the apartment.

MEET offers HD video and digital audio quality which ensures high quality communication. It provides total freedom of choice through solutions that are adapted to other technologies and existing home automation systems. In addition, MEET offers a secure system that allows the integration of access control, CCTV and alarm functions.

MEET, the system created and designed for the most technological homes.

### ACCESS CONTROL

Our access control systems offer different solutions according to the project's specifications and types of doors and/or facilities. It is possible to add graphic maps that show the different access points, from which you can visualize even the integrated cameras in the system and register all the events.

In garages, we install systems that control vehicle access.

In leisure areas (gym, tennis court, swimming pool), we provide access control systems with restricted hours and/or capacity limits.

Our access control systems can be integrated into our outdoor panels.





### CONNECTIVITY



WE TAKE THE LEAP TO CONNECTED PRODUCTS



Our products are equipped with numerous user friendly possibilities for the security and comfort in the home.

They are designed to meet the demands of a video door entry system from a smartphone or tablet, wherever you are.

Thanks to the use of Apps, it is possible to manage multiple functions from your mobile phone.

BECAUSE IF YOU HAVE FERMAX, YOU'RE ALREADY CONNECTED!



# OUTDOOR PANELS FULLY DIGITAL DOOR ENTRY **SYSTEM IN 2 WIRES**

IP43 IK07





# SKYLINE

#### FERMAX MODULAR PANEL

Manufactured in anodised aluminium profile. Its modular design and versatility provide total freedom to create numerous combinations.

## CITYLINE

MONOBLOCK CONCEPT PANEL Characterised by its curved profile, it is manufactured in a highly weather resistant anodised aluminium profile.





IP65 IK09







RAL 9016

RAL 9005

# MARINE

VANDAL-PROOF DOOR ENTRY PANEL Made in stainless steel. It is the perfect choice for adverse or extreme climate conditions.

# MARINE ELITE

A VERY OWN PRODUCT

The exclusive bespoke range MARINE ELITE can be made in many different colours, sizes and compositions.



# OUTDOOR PANELS 100% IP SYSTEM



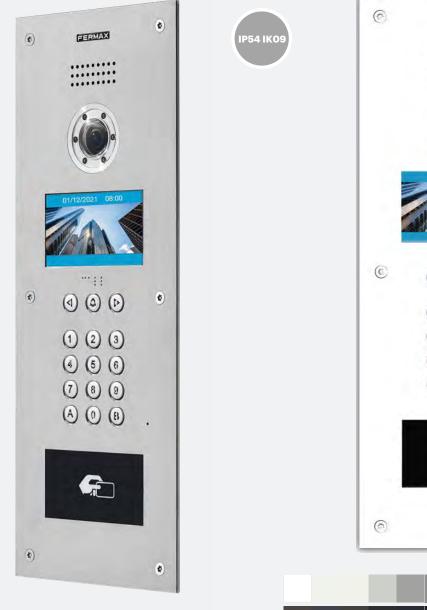


# KIN

FULLY TACTILE It features a 10" capacitive touch screen and a graphite gray finish at the forefront of design.

## MILO

TWO OPTIONS: TOUCH AND DIGITAL Manufactured in aluminum with 4.3" TFT color screen. Digital keyboard with high level of protection.



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FERMAX

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# MARINE ELITE MEET

A VERY OWN PRODUCT

The Marine Elite line of panels is available in several colours. It can be ordered in different formats and sizes.

# MARINE MEET

THE ANTI-VANDAL PANEL FROM MEET Made of 316L stainless steel, it is 3mm thick. It is a very resistant panel.



# MONITORS



#### MONITORS RANGE



#### **BASIC FUNCTIONS**

Made from high-impact ABS plastic and UV protection. White colour. Surface installation. 4.3" or 7" screen. Hands-free or handset. WiFi monitors option with call divert to mobile devices.

#### ADVANCED FUNCTIONS

Other additional configurable functions such as: activating second access, courtesy light, etc.

Auto-on. Camera and panel switching.

OSD menu. Access advanced functions.

Lock release button.

Activate / deactivate communication.



Automatic capture of images with the call Ringtone selection and call volume

adjustment

"Do not

disturb"

mode

**F1** 

Additional function F1 F2

Additional

function F2



User's

menu

configuration

Pairing with WiFi network. Only for WiFi models

### DOOR ENTRY SYSTEM IN 2 WIRES









VEO

VEO-XS

4.3" Screen. White colour.

4.3" screen. Hands-free. White colour.

VEO-XL

7" screen. Hands-free. White colour.

The VEO, VEO-XS and VEO-XL monitors are also available in WiFi model.



The DUOX PLUS VEO, VEO-XS and VEO-XL WiFi monitors are equipped with a WiFi connection, enabling calls to be diverted to mobile devices.

With the BLUE app by Fermax you can manage all the video door functions and much more directly from your mobile phone or tablet.







# MONITORS





Touch screen. Available with 7" and 10" screen. Hands-free. White or black colour. Call forwarding to mobile phone. Integration with home automation.



### WIT AND NEO MONITORS

### Integration

/ Home Automation management./ Activation of automatic mechanisms from the monitor.

### Security

/ Access control.
/ Face recognition.
/ Lift control.
/ Opening of multiple doors.
/ SOS emergency call.

### 100% IP SYSTEM







Touch screen. Available with 7" screen. Hands-free. White colour. Call forwarding to mobile phone.

### Communication

/ High-quality digital audio and video./ Simultaneous communication./ Call Divert via MEET ME app.







# **GUARD UNIT**



# DUOX PLUS Guard unit

Easy and convenient management. Audio Guard Unit with 4,3" capacitive touch screen.







# Fermax for Real



With **FERMAX FOR REAL** all the FERMAX video door entry system solutions are within your reach. Choose the one which better suits your needs and see for yourself how our products would look like in the exterior or interior of any type of home.

# SEE HOW OUR PRODUCTS WOULD LOOK LIKE IN YOUR HOME OR BUILDING



Download our free App FERMAX FOR REAL on your smartphone or tablet





SINGAPORE D'LEEDON



COLOMBIA TERRAKOTA

SPAIN TORRE BOLUETA



DENMARK THE SILO





UNITED KINGDOM GRAFTON QUARTER



UNITED ARAB EMIRATES THE LINKS



BELGIUM NAUTILUS





FRANCE GRAND HÔTEL-DIEU.





VIETNAM MASTERI THAO DIEN

POLAND ART DECO - WOLA APARTMENTS.



SPAIN

PRADO POZUELO

TURKEY TEMA ISTANBUL



#### SOLUTIONS FOR INDIVIDUAL RESIDENCES AND BUSINESSES

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#### SOLUTIONS FOR BUILDINGS

DUOX PLUS	40
The only fully digital system in 2 wires	
MEET	
The IP system based on point-to-point infrastructure	62
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# KITS

Solutions for individual residences, businesses and small buildings

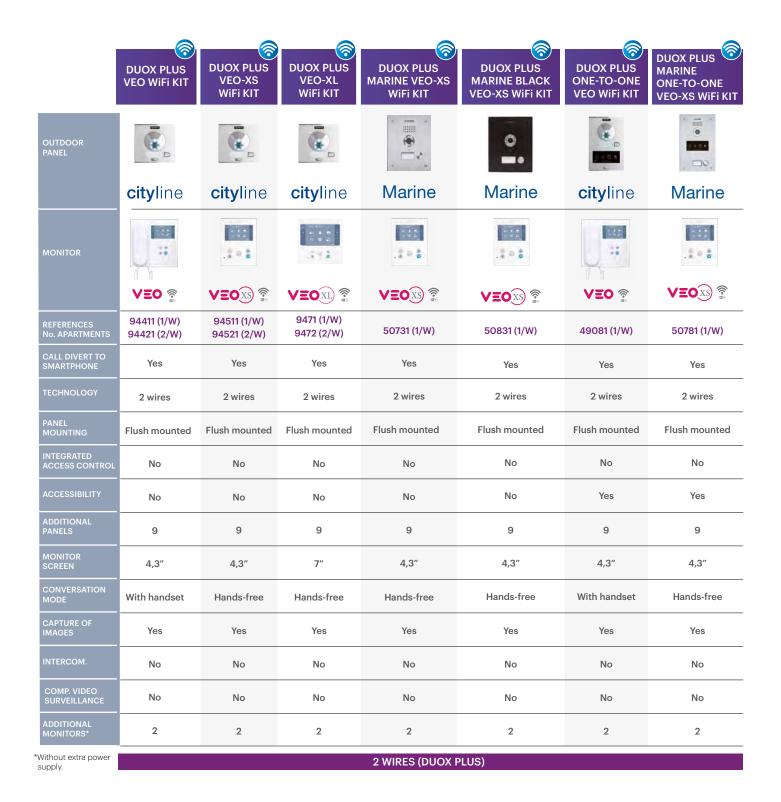
> Video Kits. Audio Kits. Building Kits.





#### SELECTION OF VIDEO KITS FOR RESIDENCES AND BUSINESSES.

All these Fermax video kits are Plug and Play (kits don't require programming).







DUOX PLUS MEMOVISION VEO WIFI KIT	DUOX PLUS MEMOVISION VEO-XS WIFI KIT	WAY-FI KIT*	WAY KIT	VEO WIBOX VDS KIT	WIT 10" WHITE KIT	WIT 10" BLACK KIT
-	· 🕑 📖 .				© =	•
cityline	<b>city</b> line	Way-Fi	Way	<b>city</b> line		
				**		
VEO 📚	VEOXS 🔶	Way-Fi	Way	VEO	wit	Wit
49071 (1/W)	49121 (1/W)	1431 (1/W)	1401 (1/W) 1402 (2/W)	94111 (1/W)	1506 (1L)	1507 (1L)
Yes	Yes	Yes	No	Yes	Yes	Yes
2 wires	2 wires	2 wires	2 wires	5 wires	IP	IP
Flush mounted	Flush mounted	Surface	Surface	Flush mounted	Flush mounted	Flush mounted
Yes (keypad)	Yes (keypad)	No	No	No	No	No
No	No	No	No	No	No	No
9	9	1	3	1	9	9
4,3″	4,3"	7" touch	7″ touch	4,3″	10″	10″
With handset	Hands-free	Hands-free	Hands-free	With handset	Hands-free	Hands-free
Yes	Yes	Yes	Yes	Yes	Yes (automatic and manual)	Yes (automatic and manual)
No	No	Yes	Yes	No	Yes	Yes
No	No	Yes	No	Yes	Yes (IP RTSP)	Yes (IP RTSP)
2	2	2	1	1	9	9

2 WIRES (DUOX PLUS)

2 WIRES (WAY) 5 WIRES (VDS)

MEET (IP)



Tablet/Smartphor

olúe

blúe



VEOXS 🤶 VEO 😤 VEOXI) 🔶 Call divert to mobile. Automatic capture of images with the call. Ringtone selection and call volume adjustment. "Do not disturb" mode. Additional functions F1 and F2. User's configuration menu.

DUOX PLUS WiFi VIDEO KITS include the DUOX PLUS WiFi monitors with integrated WiFi connectivity. Now it's possible to divert a call from your video door entry system to your smartphone or tablet.

All you need is a DUOX WiFi monitor installed in your home, then download the free BLUE application and you will feel just like you are at home.

(n) (s

By pairing your DUOX PLUS WiFi monitors with the BLUE app a whole range of possibilities will be opened up to you. Of all of these possibilities, the following two are key: Divert the door entry system calls to your mobile device and open the door remotely.

# **DUOX PLUS WIFI** KITS

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VEO, VEO-XS AND VEO-XL WIFI MONITORS

ENTRY SYSTEM CALLS FROM YOUR SMARTPHONE?



Pairing with WiFi network.

Ann Store





**VIDEO** KITS

**RESIDENCES AND BUSINESSES** 

FERMAX









#### 94411 1/W DUOX PLUS VEO WiFi KIT

40708	1/W Colour DUOX PLUS CITY panel. S1: 130x128.
8948	Flush box S1: 115x114x45.
9446	4,3" DUOX PLUS VEO WiFi monitor.
9447	DUOX PLUS Connector.
4825	Power supply unit+filter DIN10 24Vdc-2.5A.
4802	Power supply DIN4 230Vac/12Vac/1A.

#### 94421 2/W DUOX PLUS VEO WiFi KIT

Same as kit ref.94411 but 2/W video panel (ref.40008), 2 VEO WiFi monitors (ref.9446) and their connectors (ref. 9447). Includes 1 line adaptor (ref.3255).



#### 94511 1/W DUOX PLUS VEO-XS WiFi KIT

40708	1/W Colour DUOX PLUS CITY panel. S1: 130x128.
8948	Flush box S1: 115x114x45.
9449	4,3" DUOX PLUS VEO-XS WiFi monitor.
9447	DUOX PLUS Connector.
4825	Power supply unit+filter DIN10 24Vdc-2.5A.
4802	Power supply DIN4 230Vac/12Vac/1A.

#### 94521 2/W DUOX PLUS VEO-XS WiFi KIT

Same as kit ref.94511 but 2/W video panel (ref.40008), 2 VEO XS WiFi monitors (ref.9449) and their connectors (ref. 9447). Includes 1 line adaptor (ref.3255).



#### 9471 1/W DUOX PLUS VEO-XL WiFi KIT

40708 1/W Colour DUOX PLUS CITY panel. S1: 130x128.
8948 Flush box S1: 115x114x45.

- 9469 7" DUOX PLUS VEO-XL WiFi monitor.
- 9447 DUOX PLUS Connector.
- 9447 DUOX PLUS Connector
- 4825 Power supply unit+filter DIN10 24Vdc-2.5A.
- 4802 Power supply DIN4 230Vac/12Vac/1A.

#### 9472 2/W DUOX PLUS VEO-XL WiFi KIT

Same as kit ref.9471 but 2/W video panel (ref.40008), 2 VEO-XL WiFi monitors (ref.9469) and their connectors (ref.9447). Includes 1 line adaptor (ref.3255).

#### **EXTENSIONS**

**INDOOR:** up to 2 terminals without additional power supply (total terminals per home=3). Depending on the type of cable and distances, an additional power supply (ref.4825), line adaptor ref.3255 and/or regenerators might be required.

**OUTDOOR:** It is possible to extend the installation by adding more outdoor panels (up to 10). Depending on the type of cable and topology, it may be required an additional power supply (ref.4825), line adaptors ref.3255 and/or regenerators might be required.

See ACCESSORIES page 47.

#### DUOX PLUS INSTALLATION DIAGRAM



#### **DISTANCES TABLE**

Check the technical manual of the kit.



#### RESIDENCES AND BUSINESSES

**VIDEO** KITS





#### 50731 1/W DUOX PLUS MARINE VEO-XS WiFi KIT

44338	MARINE panel DUOX PLUS ST1: 150x180.
4641	Flush box ST1: 130x160x55.

- 9449 4,3" DUOX PLUS VEO-XS WiFi monitor.
- 9447 DUOX PLUS Connector.
- 4825 Power supply unit+filter DIN10 24Vdc-2.5A.
- 4802 Power supply DIN4 230Vac/12Vac/1A.



- 9447 DUOX PLUS Connector.4825 Power supply unit+filter DIN10 24Vdc-2.5A.
- 4802 Power supply DIN4 230Vac/12Vac/1A.



#### 49081 1/W DUOX PLUS ONE-TO-ONE VEO WiFi KIT

73891	1/W DUOX PLUS One-To-One CITY panel with
	induction loop. Panel S4: 130x199.
8949	Flush box S4: 115x185x45.
9456	4,3" DUOX PLUS VEO WiFi monitor w/induction loop.
9447	DUOX PLUS Connector.
4825	Power supply unit+filter DIN10 24Vdc-2.5A.
4802	Power supply DIN4 230Vac/12Vac/1A.



#### 1/W **DUOX PLUS** MARINE ONE-TO-ONE VEO-XS WiFi KIT

55361	1/W DUOX PLUS One-To-One MARINE panel with
	induction loop. ST2: 150x240.
4642	Flush box ST2: 130x220x55.
9459	4,3" colour DUOX PLUS VEO-XS monitor w/induction loop.
9447	DUOX PLUS Connector.
4825	Power supply unit+filter DIN10 24Vdc-2.5A.
4802	Power supply DIN4 230Vac/12Vac/1A.





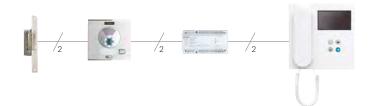
#### KITS EXTENSIONS

**INDOOR:** up to 2 terminals without additional power supply (total terminals per home=3). Depending on the type of cable and distances, an additional power supply (ref.4825), line adaptors ref.3255 and/or regenerators might be required.

**OUTDOOR:** It is possible to extend the installation by adding more outdoor panels (up to 10). Depending on the type of cable and topology, an additional power supply (ref.4825), line adaptors ref.3255 and/or regenerators might be required.

See ACCESORIES: Marine Panels page 52. Cityline Panels page 48.

#### DUOX PLUS INSTALLATION DIAGRAM





Check the technical manual of the kit.



**VIDEO** KITS

**RESIDENCES AND BUSINESSES** 





CONNECTED TO YOUR HOME FROM ANYWHERE IN THE WORLD Countered on the App Sto



• Free App compatible with iOS (version 9.0 or higher) and ANDROID (version 4.4 or higher).

PL<sup>2</sup>

- Works in WiFi or 3G/4G mode.
- · Auto-on of the outdoor panel camera from the smartphone.
- Door opening from the smartphone (with a PIN code).
- · Manual capture of photos or videos.
- Unlimited number of linked smartphones in the same kit.
- · Management of several WAY-FI kits from the same smartphone.



#### 1431 1/W 7" WAY-FI KIT

1438	1/W WAY-FI video panel with hood.
	Panel dimensions with hood: 164x94x39.
1436	7" WAY-FI touch screen monitor with WiFi.
1440	WAY-FI power supply.

#### EXTENSIONS

INDOOR: up to 2 additional monitors (total 3). OUTDOOR: up to 1 additional outdoor panel (total 2).

WAY-FI MONITORS AND PANELS

1436	7" WAY-FI MONITOR
1438	1/W WAY-FI VIDEO PANEL WITH HOOD

#### DISTANCES TABLE

Recom- mended cable	Section	A: Max. dist. panel-power supply	B: Max. distance pow.supmonitor
Twisted pair	2x1mm <sup>2</sup>	40m	80m
	2x0,75mm <sup>2</sup>	40m	60m

#### ADDITIONAL CAMERAS

1 additional aerial analogue camera can be installed in each outdoor panel (up to 2 cameras in an installation).

- 9980 PERIPHERAL CCTV DOME CAMERA
- 9981 PERIPHERAL CCTV BULLET CAMERA
- 9982 POWER SUPPLY PERIPHERAL CCTV CAMERA
- 9983 PAIR PERIPHERAL CCTV CAMERA
- 9984 POWER ADAPTOR PERIPHERAL CCTV CAMERA

NOTE: Recommended normal door lock release of 12Vdc low consumption ref. 29588 300N-412-S MAX with adjustable latch and S-type short shield. Compatible G-TYPE large shield ref. 2975.







**RESIDENCES ANDS BUSINESSES** 

# WAY KITS



#### 1401 1/W 7" WAY KIT

1416	1/W colour WAY video kit panel with hood.	
	Panel dimensions with hood: 95x155x39.	
1412	7" TFT colour WAY monitor.	
1410	WAY power supply.	



#### 1402 2/W 7" WAY KIT

1417	2/W colour WAY video kit panel with hood.	
	Panel dimensions with hood: 95x155x39.	
1412	7" TFT colour WAY monitor 1 (for 1 <sup>st</sup> home).	
1413	7″ TFT colour WAY monitor 2 (for 2 <sup>nd</sup> home).	

1410 WAY power supply.

#### EXTENSIONS

**INDOOR:** 1 monitor without additional power supply. OUTDOOR: Up to 3 additional panels using the WAY panel switcher.

#### WAY MONITORS AND PANELS

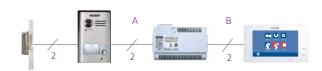
- 1412 7" TFT colour WAY monitor 1 (for 1st home)
- 7" TFT colour WAY monitor 2 (for 2<sup>nd</sup> home) 1413
- 1416 1/W colour WAY video kit panel with hood
- 1417 2/W colour WAY video kit panel with hood
- 1419 WAY SWITCHER/DISTRIBUTOR It allows for the expansion of the total amount of outdoor panels in a WAY installation, adding up to 3 additional panels (total up to 4 outdoor panels per installation).

#### ADDITIONAL FUNCTIONS

WAY RELAY MODULE 1418

It allows to open a second door from the monitor. Not compatible with WAY-FI kit.

#### INSTALLATION DIAGRAM



NOTE: Recommended normal door lock release of 12Vdc low consumption ref. 29588 300N-412-S MAX with adjustable latch and S-type short shield. Compatible G-TYPE large shield ref. 2975.

#### DISTANCES TABLE

Recom- mended cable	Section	A: Max. dist. panel-power supply	B: Max. distance pow.supmonitor
Twisted pair	2x1mm <sup>2</sup>	80m	80m
	2x0,5mm <sup>2</sup>	60m	60m







**VIDEO** KITS

**RESIDENCES AND BUSINESSES** 

You only need to download the Fermax WI-BOX app, which is free and available on the Play and App stores, and pair it with the WI-BOX device.

The WI-BOX device is being installed in parallel close to the VDS terminal and it works as another terminal.

The WI-BOX app has the same functions as the indoor terminal!

# VDS VEO WI-BOX KIT

CONNECTIVITY FOR ALL FROM ANYWHERE IN THE WORLD

94111 1/W VDS VEO WI-BOX KIT

48505	1/W colour VDS CITY panel
	and flush box (ref.8948).
	Panel S1: 130x128 / Flush 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.
3266	WiFi VDS WI-BOX call divert.

#### **EXTENSIONS**

**INDOOR:** 1 monitor or 2 telephones without additional power supply. It is possible to install more monitors or telephones by adding power supplies. (ref. 4812 or ref. 4830).

COLUMN TWO IS

OUTDOOR: It is possible to extend with a second outdoor panel. If it is video, a switcher is required (ref. 2450).

NOTE: Recommended door lock release: normal with unlocking and adjustable latch 990ND-P22 MAX (ref. 67511), or without unlocking (ref.67501 990N-P22 MAX). Large shield compatible with ref.2892 Type L22.



# CALL FORWARDING TO SMARTPHONE

FROM YOUR MOBILE YOU CAN PERFORM THE FUNCTIONS YOU NORMALLY DO FROM YOUR HOME'S MONITOR OR TELEPHONE AND MUCH MORE!





#### DOWNLOAD OUR FREE APP







If you want us to tell you about it in a video, scan this code



**VIDEO** KITS

**RESIDENCES AND BUSINESSES** 



# MEET KIT

THE PERFECT SOLUTION TO ADDRESS THE MOST EXCLUSIVE PROJECTS

#### **100% IP SYSTEM**

 Solid metal frame

A kit with a high-quality video panel and a 10" monitor, including everything what is required for its installation (connector, switch, etc.).

All the MEET system monitors include **audio and video call forwarding as standard,** at no extra cost, thanks to the MEET ME app.

WIT monitors can be powered by **POE** power supply and incorporate **2 RJ-45 network interfaces.** 

The kit is available in 2 options: the standard version REF.1506 (**silver colour panel and white** monitor) and black version REF.1507 (**black panel and monitor**).

More **monitors or panels can be added to the kit**, which would be connected to each other via the IP network.

It is the best option for **integration with home automation systems** thanks to the Android technology and its system based on the SIP protocol.



#### HOME AUTOMATION INTEGRATION

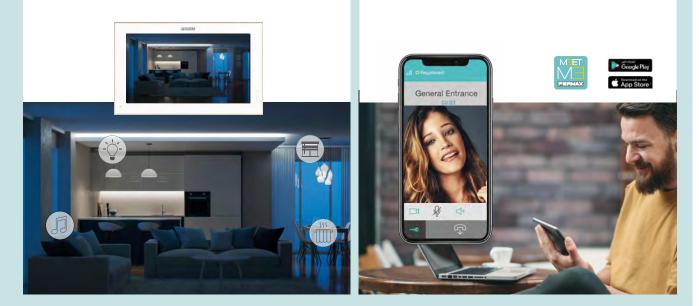
MEET monitors **can be connected to home automation systems**, triggering predefined scenarios and interacting with third-party home automation gateways.

For example: At home / Dining / Away from home....

#### CALL DIVERT TO MOBILE

It enables communication with the entrance panels and door opening, if required. You can view the caller before answering and open a second auxiliary door.

It's as easy as downloading the **free MEET ME app.** 



#### MEET VIDEO KIT



#### **1506** 1/W MEET 10" WHITE WIT VIDEO KIT

9533	1/W MILO video panel MEET.
9543	MEET panel flush-S.
14831	$10^{\prime\prime}$ WIT monitor home automation white MEET.
9541	WIT monitor connector MEET.
1586	4 PoE ports switch + 2 uplinks ports.
1498	12Vdc PoE splitter.



#### 1507 1/W MEET 10" BLACK WIT VIDEO KIT

953303	1/W MILO video Black panel MEET.
9543	MEET panel flush-S.
14833	10" WIT monitor home automation black MEET.
9541	WIT monitor connector MEET.
1586	4 PoE ports switch + 2 uplinks ports.
1498	12Vdc PoE splitter.

NOTE: Recommended normal door lock release of 12Vdc low consumption ref. 29588 300N-412-S MAX with adjustable latch and S-type short shield. Compatible G-TYPE large shield ref. 2975. For the door lock release, it requires a separate 12Vdc power supply.



Choose the DOOR ENTRY KIT that best suits the user's needs.

	DUOX PLUS CITY KIT	DUOX PLUS CITY iLOFT KIT	DUOX PLUS MARINE ILOFT KIT
OUTDOOR PANEL			. =0.
	<b>city</b> line	<b>city</b> line	Marine
TELEPHONE	VEO	iLOFT	iLOFT
REFERENCES (No. of Apartments)	49202 (1/W) 49212 (2/W)	50772 (1/W)	50762 (1/W)
TECHNOLOGY	2 wires	2 wires	2 wires
PANEL MOUNTING	Flush mounted	Flush mounted	Flush mounted
INTEGRATED ACCESS CONTROL	No	No	No
No. OF ADDITIONAL PANELS	9	9	9
No. OF ADDITIONAL TELEPHONES	2	2	2
CONVERSATION MODE	With handset	Hands-free	Hands-free
No. OF PUSH BUTTONS	1	3	3
CALL MELODIES	5	5	5
VOLUME CONTROL	Yes	Yes	Yes
"DO NOT DISTURB" FUNCTION	Yes	Yes	Yes
ADDITIONAL FUNCTIONS	No	Yes	Yes
AUTO-ON	Yes	Yes	Yes
		2 WIRES (DUOX PLUS)	



DUOX PLUS MEMOPHONE KIT	CITYLINE 4+N KIT	CITY CLASSIC 4+N KIT
cityline	<b>city</b> line	cityline classic
VEO	VEO	citymax
	4860 (1/W)	6201 (1/W)
49132 (1/W)	4862(2/W)	6202 (2/W)
2 wires	4+N	4+N
Flush mounted	Flush mounted	Flush mounted
Yes (keypad)	Νο	Νο
9	6	6
2	3	3
With handset	With handset	With handset
1	1	1
5	1	1
Yes	Νο	Νο
Yes	No	Νο
No	No	Νο
Yes	Yes	Yes
2 WIRES (DUOX PLUS)	4	+N

KITS







# **DUOX PLUS** KITS



#### 49202 1/W DUOX PLUS AUDIO CITY VEO KIT

- 1/W DUOX PLUS CITY panel. S1: 130x128. 40702
- 8948 Kit flush box S1: 115x114x45.
- 3444 DUOX PLUS VEO telephone.
- 4825 Power supply unit+filter DIN10 24Vdc-2.5A
- 4802 Power supply DIN4 230Vac/12Vac/1A

#### 49212 2/W DUOX PLUS AUDIO CITY VEO KIT

Same as ref.49202 but with 2/W audio panel (ref.40002) and 2 DUOX PLUS VEO telephones (ref.3444).



#### 49132 1/W DUOX PLUS AUDIO MEMOPHONE CITY VEO KIT

49042	1/W DUOX PLUS MEMOPHONE CITY panel.
	Panel S5: 130x246.
8855	Kit flush box S5: 115x233x45.
3444	DUOX PLUS VEO telephone.
4825	Power supply unit+filter DIN10 24Vdc-2.5A
4802	Power supply DIN4 230Vac/12Vac/1A



- 3450 DUOX PLUS iLOFT telephone.
- 4825 Power supply unit+filter DIN10 24Vdc-2.5A
- 4802 Power supply DIN4 230Vac/12Vac/1A

#### INSTALLATION DIAGRAM





## 50762 1/W DUOX PLUS AUDIO MARINE

- 1/W DUOX PLUS MARINE panel. Panel ST1: 150x180.
- Flush box ST1: 130x160x55.
- 3450 DUOX PLUS iLOFT telephone.
- 4825 Power supply unit+filter DIN10 24Vdc-2.5A.
- 4802 Power supply DIN4 230Vac/12Vac/1A.

#### EXTENSIONS

INDOOR: 2 additional telephones. OUTDOOR: up to 9 additional panels.

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







#### **EXTENSIONS**

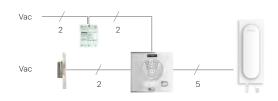
INDOOR: 3 additional telephones. It is possible to extend the installation with more telephones by adding a power supply (ref. 4812) and a call multiplier (ref. 2340).

OUTDOOR: It is possible to extend with 2 additional panels. Switchers are required (ref. 8819).

NOTE: Recommended door lock release: normal with unlocking and adjustable latch 990ND-P22 MAX (ref. 67511), or without unlocking (ref.67501 990N-P22 MAX). Large shield compatible with ref.2892 Type L22.

#### INSTALLATION DIAGRAM

telephones (ref.80447).





4+N



#### AUDIO KITS RESIDENCES AND BUSINESSES

# CITYLINE KITS



#### 4863 3/W 4+N CITY AUDIO KIT



3/W CITY panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45. VEO 4+N telephone (3 units).

Power supply 12Vac/1A. DIN4.

#### 4866 6/W 4+N CITY AUDIO KIT

3426

4802

3426

4802



6/W CITY panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45. VEO 4+N telephone (6 units). Power supply 12Vac/1A. DIN4.

#### 4865 10/W 4+N CITY AUDIO KIT



10/W CITY panel and flush box. Panel S5: 130x246. Flush box (ref.8855) S5: 115x233x45. VEO 4+N telephone (10 units). Power supply 12Vac/1A. DIN4.

#### 4869

#### 14/W 4+N CITY AUDIO KIT



14W CITY panel and flush box. Panel S6: 130x294. Flush box (ref.8856) S6: 115x280x45. VEO 4+N telephone (14 units). Power supply 12Vac/1A. DIN4.

#### 4874 18/W 4+N CITY AUDIO KIT

3426

4802



18/W CITY panel and flush box. Panel S7: 130x341. Flush box (ref.8857) S7: 115x328x45. VEO 4+N telephone (18 units). Power supply 12Vac/1A. DIN4.

#### 4876 22/W 4+N CITY AUDIO KIT

3426

4802



22/W CITY panel and flush box. Panel S8: 130x389. Flush box (ref.8858) S8:115x375x45. VEO 4+N telephone (22 units). Power supply 12Vac/1A. DIN4.

See ACCESORIES page 47.

#### KITS EXTENSIONS AND ACCESSORIES

• 2nd Access: Requires panels and flush box (see section 4+N) + audio switcher (ref.8811) + voltage distributor 12Vac/12Vdc (ref.88231).

In the apartment: up to 3 telephones (ref.3426) without additional power supply.
Recommended door lock: 990N-P22 MAX (ref.67501).

**NOTE:** These kits include the Basic amplifier. (See page 114 to find out the differences between Basic and Complete amplifier).

#### 4864 4/W 4+N CITY AUDIO KIT

3426

4802



4/W CITY panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45. VEO 4+N telephone (4 units). Power supply 12Vac/1A. DIN4.

#### 4868 8/W 4+N CITY AUDIO KIT



3426 4802 8/W CITY panel and flush box. Panel S4: 130x199. Flush box (ref.8949) S4: 115x185x45. VEO 4+N telephone (8 units). Power supply 12Vac/1A. DIN4.

#### **4867** 12



#### 12/W 4+N CITY AUDIO KIT

12/W CITY panel and flush box. Panel S5: 130x246. Flush box (ref.8855) S5: 115x233x45. VEO 4+N telephone (12 units). Power supply 12Vac/1A. DIN4.

#### 4871



3426

4802

3426

4802

3426

4802



#### 16/W CITY panel and flush box. Panel S6: 130x294. Flush box (ref.8856) S6: 115x280x45. VEO 4+N telephone (16 units).

Power supply 12Vac/1A. DIN4.

#### 4875 20/W 4+N CITY AUDIO KIT

x16



20/W CITY panel and flush box. Panel S7: 130x341. Flush box (ref.8857) S7: 115x328x45. VEO 4+N telephone (20 units). Power supply 12Vac/1A. DIN4.

#### 4877

#### 24/W 4+N CITY AUDIO KIT



24/W CITY panel and flush box. Panel S8: 130x389. Flush box (ref.8858) S8:115x375x45. VEO 4+N telephone (24 units). Power supply 12Vac/1A. DIN4.

# CITY CLASSIC **KITS**

## FROM 3 TO 24 APARTMENTS

6203 3/W 4+N CITYMAX AUDIO KIT

> 3/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45. CITYMAX BASIC telephone (3 units). 80447 4802 Power supply 12Vac/1A. DIN4.

### 6206 6/W 4+N CITYMAX AUDIO KIT

80447

4802

80447

4802

8660

8856

4802

6/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45. CITYMAX BASIC telephone (6 units). Power supply 12Vac/1A. DIN4.

6210

### 10/W 4+N CITYMAX AUDIO KIT



xЗ

x6

### 10/W CITY CLASSIC panel and flush box (Flush box included ref.8855). Panel S5: 130x246. Flush box S5: 115x233x45. CITYMAX BASIC telephone (10 units).

Power supply 12Vac/1A. DIN4.

### 6214



### 14/W CITY CLASSIC panel. Panel S6: 130x294. Flush box S6: 115x280x45. 80447 CITYMAX BASIC telephone (14 units).

Power supply 12Vac/1A. DIN4.

6218

### 18/W 4+N CITYMAX AUDIO KIT

14/W 4+N CITYMAX AUDIO KIT

8700	18/W CITY CLASSIC panel.
	Panel S7: 130x341.
8857	Flush box S7: 115x328x45.
80447	CITYMAX BASIC telephone (18 units).
4802	Power supply 12Vac/1A. DIN4.

### 6222 22/W 4+N CITYMAX AUDIO KIT

8740	22/W CITY CLASSIC panel.
	Panel S8: 130x389.
8858	Flush box S8: 115x375x45.
80447	CITYMAX BASIC telephone (22 units).
4802	Power supply 12Vac/1A. DIN4.

### KITS EXTENSIONS AND ACCESORIES:

- 2nd Access: Requires panels and flush box + audio switcher (ref.8811) + voltage distributor 12Vac/12Vdc (ref.88231).
- In the apartment: up to 3 telephones (ref.80447) without additional power supply.
- Recommended door lock: 990N-P22 MAX (ref.67501).

NOTE: These kits include the Basic amplifier. (See page 114 to find out the differences between Basic and Complete amplifier).

### 4/W 4+N CITYMAX AUDIO KIT 6204



4/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45. CITYMAX BASIC telephone (4 units). Power supply 12Vac/1A. DIN4.

### 6208 8/W 4+N CITYMAX AUDIO KIT



8/W CITY CLASSIC panel and flush box (flush box included ref.8949). Panel S4: 130x199. Flush box S4: 115x185x45. CITYMAX BASIC telephone (8 units). Power supply 12Vac/1A. DIN4.

### 6212 12/W 4+N CITYMAX AUDIO KIT

80447

4802



12/W CITY CLASSIC panel and flush box (Flush box included ref.8855). Panel S5: 130x246. Flush box S5: 115x233x45. CITYMAX BASIC telephone (12 units). Power supply 12Vac/1A. DIN4.

### 6216 16/W 4+N CITYMAX AUDIO KIT 8661

8856

80447

4802

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

### 6220 20/W 4+N CITYMAX AUDIO KIT

8701
8857
8044
4802

20/W CITY CLASSIC panel. Panel S7: 130x341. Flush box S7: 115x328x45. 80447 CITYMAX BASIC telephone (20 units). 4802 Power supply 12Vac/1A. DIN4.

### 24/W 4+N CITYMAX AUDIO KIT 6224

8741

8858

80447

4802



24/W CITY CLASSIC panel. Panel S8: 130x389 Flush box S8: 115x375x45. CITYMAX BASIC telephone (24 units). Power supply 12Vac/1A. DIN4.





# Solutions for buildings

The only fully digital system in 2 wires







**k**plus

TECHNOLOGY DUC

VIDEO 2 NON-POLARISED WIRES

# More **Powerful**



### **MORE CAPACITY**

Longer distances. Higher voltage, less consumption. More terminals per power supply.

### **MORE TECHNOLOGY**

More digitalisation. 2 simultaneous audio/video communication channels on the same riser. More resolution and fluidity on video quality. Totally interference-free audio quality.

### **MORE FUNCTIONS**

One single connector for all the monitors. New indoor terminals. Greater angle of vision on the outdoor panel.

### MORE FLEXIBILITY

More apartments per floor. Higher performance with any cable. Greater simplicity of installation.



JUE

MORE CONNECTIVITY

All video kits with WiFi monitor as standard. Maximum cyber security. Faster communication.

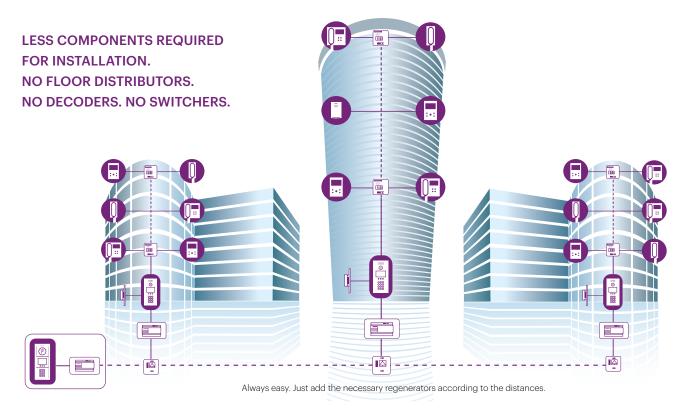
41

A simplified installation system using only 2 non-polarised wires. No need for floor distributors or panel switchers. The transmission of the signal (audio, video and data) is completely digital, increasing the equipment capacity and robustness

transmission of the signal (audio, video and data) is completely digital, increasing the equipment capacity and robustness against noise and interferences. Built-in voice guided programming system in outdoor panels. In the monitors, programming through graphic menu. Telephones can be upgraded to monitors in the home at any time, without including additional elements. DUOX PLUS installation is up to 50% faster than other intercommunication systems.

+		+	•		+ Accessories:
Outdoor Panel	Power Supply	Line Adaptor	Lock Release	Monitors and Telephones	Relay (optional)

Wiring	Flexible topology with 2 non-polarised wires.
Cables	- Parallel (2x1,0mm2)
	- Twisted pair
	- UTP CAT5
	- 2 wires of door bell
	- 4+N cable
	(The dimensioning can change depending on the cable. Recommended cable: parallel 2x1.0 mm2)
Maximum distance between	3.000m
extremes of the installation	
Maximum point to point distance	500m
without regeneration	
Connection of the indoor terminals	No need to install distributors or registers in the floors.
Conversation mode	Full-duplex
Power supply	24Vdc
Addresses	Up to 6 digits.
Maximum number of homes	999.999
	General entrance (up to 10 panels and 10 guard units).
Structure of the installation	99 blocks (up to 10 panels and 10 guard units per block).
	99 sub-blocks (up to 10 panels and 10 guard units per sub-block).
Maximum nº terminals/home	3







TECHNOLOGY video 2 non-polarised wires



# 1. OUTDOOR PANEL



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.

### SKYLINE PANEL

SKYLINE manufacturing materials include anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate transparent elements and stainless steel inner grids (IP43 IK07).

For contemporary installations that require multiple integration systems: information, communication and access control.

Includes a **WIDE ANGLE COLOUR CAMERA** and additional night vision lighting with 6 LEDS (Horizontal angle vision 100°/ Vertical 80°).

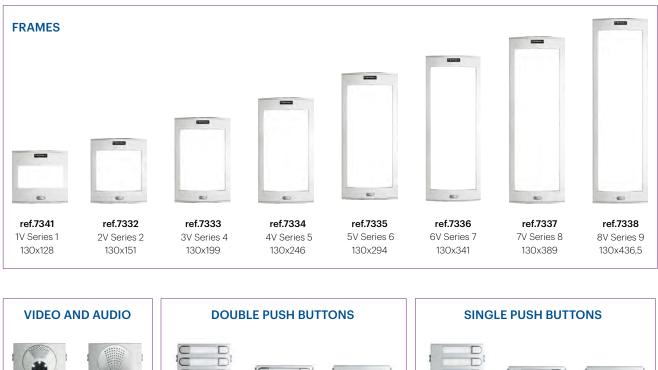
Its VERSALITY makes it the only panel able to fulfil any requirements which may arise in any residential, industrial or service sector project. Its modular design and versatility provide TOTAL FREEDOM TO CREATE NUMEROUS COMBINATIONS.





DUOX

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.



ref.73902 Audio W

ref.73911 Video W

ref.7371 8 PUSH. 2x4 W

ref.7372 4 PUSH. 2x2 V

ref.7376 2 PUSH. 2x1 V

ref.7367

4 PUSH. 1x4 W

ref.7368 ref.7375 2 PUSH. 1x2 V 1 PUSH. 1x1 V



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



TECHNOLOGY video 2 non-polarised wires



### **SKYLINE MODULES**



ref.73911



ref.73902

### VIDEO AND AUDIO MODULES W

- Wide angle colour camera: 100° horizontal angle vision /80° vertical.
- 6 white leds for night vision (ON/OFF).
- Voice synthesiser as standard. "The door is open..." (32 languages).
- Rear adjustment of the speaker, microphone and voice synthesiser.
- Output+12Vdc for lock release.
- Connection for exit button.

73911 DUOX PLUS VIDEO MODULE W73902 DUOX PLUS AUDIO SKYLINE MODULE W



### SINGLE AND DOUBLE PUSH BUTTON MODULES

- Zamak injected call button with chromed finish. 100.000 pressings in 48h guaranteed.
- Polycarbonate card slot. Frontal card slot access. Dimensions: 54x12mm.

7371	8 PUSH BUTTONS 2x4 W DUOX PLUS/VDS
7372	4 PUSH BUTTONS 2x2 V DUOX PLUS/VDS
7376	2 PUSH BUTTONS 2x1 V DUOX PLUS/VDS
7367	4 PUSH BUTTONS 1x4 W DUOX PLUS/VDS
7368	2 PUSH BUTTONS 1x2 V DUOX PLUS/VDS
7375	1 PUSH BUTTONS 1x1 V DUOX PLUS/VDS



3,5" TFT GRAPHIC DISPLAY NOTE: It requires to install a DUOX PLUS DIGITAL KEYPAD (ref.7457).



One-To-One

End of conve

Personalised images

### ELECTRONIC DISPLAY MODULE

The DISPLAY allows search through the list of residents and their allocated door codes (telephone directory type). It indicates the communication status. The keys  $\triangleleft \triangleright$  allow to move through the menu. Press  $\triangle$  to call the residence when dialing the door number on the keypad.

- Display activation by presence sensor.
- Integrated ONE-TO-ONE module.
- Images display.
- Personalised messages display.
- Alphanumeric keypad.
- Date and time indicator.

7470 DUOX PLUS DIGITAL DISPLAY W



ref.7457 (panel with display)



ref.7439 (panel without display)

### **KEYPAD MODULES**

Blue backlighted numeric keypad made of chromed zamak. It includes access control by code (1 code in Direct keypad and 10.000 codes in Digital keypad).

7457 DUOX PLUS DIGITAL KEYPAD W7439 DUOX PLUS/VDS/MDS DIRECT KEYPAD W



### **INFORMATIVE MODULES**

### 7448 ONE-TO-ONE MODULE V

Device that informs on door entry operating using illuminated pictograms: Calling, in conversation, door open or busy channel. Compatible with these technologies: DUOX PLUS, VDS, MDS and 4+N technologies.

### 7452 ONE-TO-ONE MODULE WITH INDUCTIVE LOOP V

The same as ref.7448 but including inductive loop for people with a hearing impairment. The loop increases the power consumption of the installation, so it is recommended to resize it accordingly. Only compatible with DUOX PLUS and VDS technologies.

### Cardholder with lighting

7445	PANORAMIC CARDHOLDER W
7444	PANORAMIC CARDHOLDER V

Allow to cover holes in the outdoor panel for the installation of future modules.



METALLIC

COMPLEMENT W



METALLIC COMPLEMENT V METALLIC COMPLEMENTS

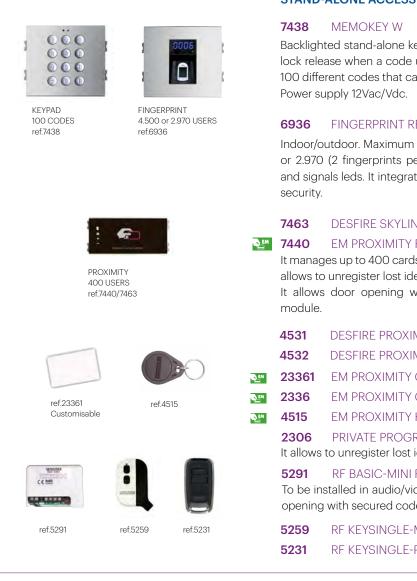
7443 METALLIC COMPLEMENT W7442 METALLIC COMPLEMENT V



TECHNOLOGY VIDEO 2 NON-POLARISED WIRES



### SKYLINE MODULES AND FRAMES





### STAND-ALONE ACCESS CONTROL MODULES

Backlighted stand-alone keypad with signal LEDs. It activates the door lock release when a code up to 6 digits is entered. It allows to register 100 different codes that can activate 1 or 2 relays.

### FINGERPRINT READER W

Indoor/outdoor. Maximum capacity: 4.500 users (1 fingerprint per user) or 2.970 (2 fingerprints per user). It includes an informative DISPLAY and signals leds. It integrates a built-in proximity reader to increase the

### DESFIRE SKYLINE PROXIMITY READER V

### EM PROXIMITY READER V

It manages up to 400 cards in stand-alone mode. The keypad (ref.2306) allows to unregister lost identifiers. Power supply 12Vac/dc.

It allows door opening when approaching a proximity card to the

- DESFIRE PROXIMITY CARD EV2 2K
- DESFIRE PROXIMITY KEYRING EV2.2K
- EM PROXIMITY CARD
- EM PROXIMITY CARD WITH MAGNETIC BAND
- EM PROXIMITY KEYRING

PRIVATE PROGRAMMING KEYPAD

It allows to unregister lost identifiers.

### RF BASIC-MINI RECEIVER

To be installed in audio/video door entry panels. Remote control opening with secured code.

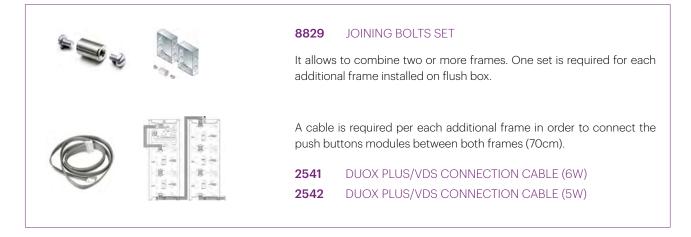
- **RF KEYSINGLE-MINI EMITTER** 
  - **RF KEYSINGLE-PLUS EMITTER 2 PUSH**

### **SKYLINE FRAMES**

Once the modules are selected, choose the frames according to the size.

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





### CITYLINE AND SKYLINE PANELS ACCESSORIES

		· COLODID · ·	nanondad	· nannan *				- appropriate .
	FLUSH	SURFACE	HOOD		MODULAR	CITY FRAME		ANGULAR
	BOX	BOX	SINGLE	DOUBLE	FRAME*	SINGLE	DOUBLE	COMPLEMENT
S1	<b>ref.8851</b> 115x114x45	<b>ref.7061</b> 130x128x33	<b>ref.8400</b> 135x130	-	<b>ref.9191</b> 211x210	<b>ref.8251</b> 225x310	-	ref.8378
S2	<b>ref.8852</b> 115x138x45	<b>ref.7062</b> 130x151x33	<b>ref.8401</b> 135x155	-	<b>ref.9192</b> 211x234	<b>ref.8252</b> 225x310	-	ref.8379
CITYLINE only	<b>ref.8853</b> 115x162x45	<b>ref.7063</b> 130x175x33	<b>ref.8402</b> 135x177,5	-	<b>ref.9193</b> 211x257	<b>ref.8253</b> 225x375	-	ref.8380
S4	<b>ref.8854</b> 115x185x45	<b>ref.7064</b> 130x199x33	<b>ref.8403</b> 135x203	<b>ref.8411</b> 265x203	<b>ref.9194</b> 211x281	<b>ref.8254</b> 225x375	<b>ref.8427</b> 355x385	ref.8381
S5	<b>ref.8855</b> 115x233x45	<b>ref.7065</b> 130x246x33	<b>ref.8404</b> 135x250	<b>ref.8412</b> 265x250	<b>ref.9195</b> 211x329	<b>ref.8255</b> 225x375	<b>ref.8428</b> 355x385	ref.8382
S6	<b>ref.8856</b> 115x280x45	<b>ref.7066</b> 130x294x33	<b>ref.8405</b> 135x300	<b>ref.8413</b> 265x300	<b>ref.9196</b> 211x376	<b>ref.8256</b> 225x450	<b>ref.8429</b> 355x460	ref.8383
S7	<b>ref.8857</b> 115x328x45	<b>ref.7067</b> 130x341x33	<b>ref.8406</b> 135x345	<b>ref.8414</b> 265x345	<b>ref.9197</b> 211x424	<b>ref.8257</b> 225x450	<b>ref.8430</b> 355x460	ref.8384
S8	<b>ref.8858</b> 115x375x45	<b>ref.7068</b> 130x389x33	<b>ref.8407</b> 135x393	<b>ref.8415</b> 265x393	<b>ref.9198</b> 211x471	<b>ref.8258</b> 225x450	<b>ref.8431</b> 355x460	ref.8385
S9	<b>ref.8982</b> 115x420,5x45	<b>ref.7069</b> 130x436,5x33	<b>ref.8480</b> 135x440,5	<b>ref.8483</b> 265x440,5	<b>ref.9199</b> 211x519	<b>ref.8259</b> 225x495	<b>ref.8474</b> 355x500	ref.8386

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

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







# 1. OUTDOOR PANEL



### **CITYLINE** PANEL

**CITYLINE** is a monoblock concept panel. It is characterised by its curved profile.

There are **9 different panel dimensions** called "SERIES", all with the same width but different height and capacities.

It is manufactured in a highly weather **resistant anodised aluminium profile** (IP43 IK7). The push buttons and displays are chromed zamak, the amplifier frontal in aluminium and the interior is protected by a stainless steel grid.

The watertight push buttons are designed and tested in the most demanding conditions to achieve great durability and reliability.

Includes a **WIDE ANGLE COLOUR CAMERA** and additional night vision lighting with 6 LEDS (Horizontal angle vision 100°/ Vertical 80°).







### DIRECT AND DIGITAL CITYLINE PANELS



ref.73631 re Panel dimensions: 130x246 (S5) Flush box dimensions: 115x233x45 (S5)



ref.73871 ref.73 Panel dimensions: 130x341 (S7) Flush box dimensions: 115x328x45 (S7)



ref.73811 ref.73818 Panel dimensions: 130x389 (S8) Flush box dimensions: 115x375x45 (S8)

### DIRECT CITYLINE PANEL

The DIRECT panels have a keypad to call the apartments. The keypad admits 1 code to open the door.

# 73631 DUOX PLUS DIRECT VIDEO CITY PANEL S573638 DUOX PLUS DIRECT 1W VIDEO CITY PANEL S5

In addition to being able to call the main guard unit by pressing the "bell key" button, this outdoor panel model also includes a button to call directly at the General Entrance from a block panel. The address of the guard unit that is called with this button must be previously configured by the installer.

8855	FLUSH BOX S5
8829	JOINING BOLTS SET

**NOTE:** Recommended to add DIRECTORY SKYLINE PANEL S5 (ref.7334 and 2 units ref.7445).

### DIGITAL CITYLINE PANEL

The DIGITAL panels include a KEYPAD and a 3,5" EXTRA display. The keypad integrates access control function (10.000 codes).

73871	DUOX PLUS DIGITAL VIDEO CITY PANEL S7
73811	DUOX PLUS DIGITAL VIDEO CITY PANEL PROX S8

- 73878 DUOX PLUS DIGITAL VIDEO 1W CITY PANEL S7
- 73818 DUOX PLUS DIGITAL VIDEO 1W CITY PANEL PROX S8

In addition to being able to call the main guard unit by pressing the "bell key" button, this outdoor panel model also includes a button to call directly at the General Entrance from a block panel. The address of the guard unit that is called with this button must be previously configured by the installer.

8857	FLUSH BOX S7
8858	FLUSH BOX S8
8829	JOINING BOLTS SET

**NOTE:** Recommended to add according to the size of the panel: • DIRECTORY SKYLINE PANEL S7 (ref.7336 and 3 units ref.7445).

• DIRECTORY SKYLINE PANEL S8 (ref.7337, ref.7444 and 3 units ref.7445).







# 1. OUTDOOR PANEL



### MARINE PANEL

**MARINE** is the Fermax **IP65 IK09** vandal-proof door entry panel. Made in stainless steel (2,5mm-thick). AISI 316L stainless steel.

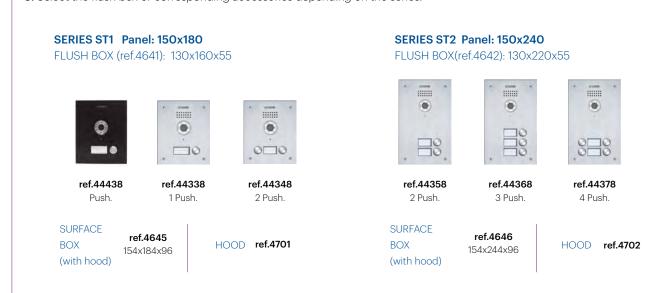
MARINE resists without alterations the most wet and corrosive climates, remaining unalterable over time. It is the perfect choice for adverse or extreme climate conditions.

**It incorporates voice synthesizer**: "The door is open. Please, close the door behind you" is emitted while the door is opening. Available in 32 languages.

**WIDE ANGLE COLOUR CAMERA** as standard. It includes lighting for vision in conditions of low luminosit (Horizontal angle vision 100°/ Vertical 80°).

### PUSH BUTTONS MARINE PANELS

- **1.** Select the panel required according to the number of apartments in the building. In case of combining several flush mounted panels of the same series, it is required to use joining bolts (ref.2289).
- The MARINE outdoor panels with push buttons (except 1 and 2 ways VIDEO panels), always require a call extension module, depending on the number of push buttons. (ref.2008 8 call extension module ref.2441 16 call extension module).
   Select the flush box or corresponding accessories depending on the series.



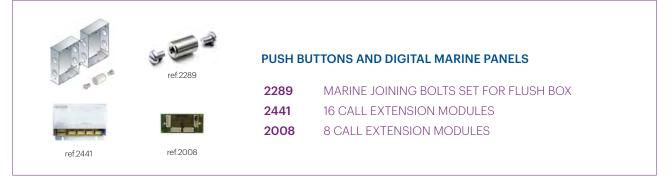
FLUSH OR SURFACE BOX must be requested separately. The surface boxes include a hood. Note: For other Marine push button panels, see special Marine panels in the following pages.



### **DIGITAL MARINE PANEL**

- The **DIGITAL MARINE** 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 residents and their door number.
- Once the code is dialled, press the BELL KEY to call.
- The metallic keys are made of zamak. It has permanent backlighting.
- Through the keypad it is possible to activate the installation's electric lock with a previously programmed PIN.
- 10.000 different users/codes in DUOX PLUS system.





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







VIDEO 2 NON-POLARISED WIRES



### MARINE ELITE PANEL

FERMAX has a laser-cut machining line for stainless steel panels. This process allows us to offer complete flexibility when it comes to making the MARINE panel required with optimal delivery time.

The MARINE Elite panels are available in several colours: indicate the desired RAL when ordering your panel. The Marine Elite stainless steel panels are also available in brass colour.



RAL 9005

GOLD COLOUR

Surface boxes and hoods are not available in brass colour.

## MANUFACTURING PROCESS OF MARINE PANELS



### MARINE ELITE. UNIQUELY FERMAX. SPECIALLY MADE FOR YOU!



### 31728 DUOX PLUS MARINE ELITE PANEL

The following variations may be ordered:

- · Panel with special formats and dimensions.
- · Integration of access control modules and special combinations.
- $\cdot$  Logotype laser marking. The engraving of panels is only available
- on the panels with stainless steel colour. Other colours cannot be engraved.
- $\cdot$  Residence/Building number and messages integration.
- $\cdot$  Push buttons without card slot and free layout.
- · Backlight option.

4579	SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL
4580	SPECIAL MARINE FLUSH BOX
4581	SPECIAL MARINE SURFACE BOX (WITH HOOD)

You can find the SPECIAL MARINE application form at: https://fermax.com/intl-en/tools/special-panels



TECHNOLOGY video 2 non-polarised wires



# 2. MONITORS AND TELEPHONES





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





**VEO** and **VEO-XS 4.3**" colour monitors and **VEO-XL 7**" colour monitors, made from high-impact ABS plastic. Include automatic capture of images with the call (memory up to 150 photos), adjustment of contrast, brightness, colour, audio volume and call tone volume, "do not disturb" function, doorbell, date and time settings, silicone door opener buttons to activate the door opener, access the on-screen OSD menu, activate the outdoor panel camera or any another additional function that can be configured as for example activate a second access, courtesy light, etc. Available in white and surface installation.

## VEO, VEO-XS AND VEO-XL WIFI MONITORS



**E** 

DUOX PLUS VEO, VEO-XS and VEO-XL WiFi monitors are equipped with WiFi connection that allows to forward calls to mobile devices.

Thanks to Fermax BLUE app, the functions of the video door phone and much more can be managed from a smartphone or a tablet.

### VEO, VEO-XS AND VEO-XL MONITORS

Dimensions: 200x200x23mm (44 mm with handset).

- 9445 DUOX PLUS VEO MONITOR
- 9455

DUOX PLUS VEO MONITOR WITH INDUCTIVE LOOP

Hands-free. Dimensions: 125x165x21 mm.

9448 DUOX PLUS VEO-XS MONITOR

9458 DUOX PLUS VEO-XS WITH INDUCTIVE LOOP

### Hands-free. Dimensions: 185x185x21 mm.

9468 DUOX PLUS VEO-XL MONITOR



DUOX PLUS VEO-XL WITH INDUCTIVE LOOP



### 9447 DUOX PLUS CONNECTOR

Support for mounting the DUOX PLUS VEO, VEO-XS and VEO-XL monitor on the wall.



TECHNOLOGY video 2 non-polarised wires



### **TELEPHONES**

- VEO, LOFT and iLOFT telephones include the following features:
- Door opener button and call to guard.
- 5 selectable ringtones.
- Ring volume control.
- Door bell.



**VEO. LOFT:** Made of high-impact ABS with a texturised finish for easy cleaning and ultraviolet protection. It has many attachment points for

iLOFT: 1 additional button.

Loft Extra and iLOFT phones include buttons

opening, etc. Loft Extra: 2 additional buttons;

for additional functions: lights on 2nd door

wall mounting, as well a coiled cord with telephone plug connectors. A magnet located in the handset facilitates to hang it up correctly.

Dimensions: 82x214 x43 mm

**3444** DUOX PLUS VEO TELEPHONE

Dimensions: 85x220x40mm

3452 DUOX PLUS LOFT EXTRA TELEPHONE

**iLOFT:** Compact and extra slim. Made of ABS. iLOFT telephone allows communication with the outdoor panel in hands-free mode. The integrated digital audio technology ensures high-quality and interference-free communication.

Dimensions: 90x146,5x20mm.

**3450** DUOX PLUS ILOFT TELEPHONE

## MONITORS AND TELEPHONES ACCESSORIES

il OFT

-					d desktop supports allow to answer a call to the entrance for the office desktop. Made of stainless steel (AISI 316L).
		As a		9410	VEO MONITOR DESKTOP SUPPORT
ref.9	410			9420	VEO-XS AND VEO-XL MONITOR DESKTOP SUPPORT
ret.9	410	ref.9420		3749	VEO/LOFT TELEPHONE DESKTOP SUPPORT
				5636	ILOFT TELEPHONE DESKTOP SUPPORT
ref.5636		ref.3749			( Decorative Frames are aesthetic complements. Useful in ng applications or replacement of previous equipment.
				3380	LOFT TELEPHONE DECORATIVE FRAME. 200X240
				3388	UNIVERSAL DECORATIVE FRAME. 120X240
00				3389	UNIVERSAL LARGE DECORATIVE FRAME. 210X240
12			Ń	3441	LOFT HANDSET WITH INDUCTIVE LOOP
ref.3380	ref.3388	ref.3389	Ń	3443	VEO HANDSET WITH INDUCTIVE LOOP

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



# 3. GUARD UNIT



DUOX PLUS Audio Guard Unit has a multi-functional 4,3" capacitive touchscreen and quick function access buttons for easy convenient management. Its unique handset design incorporating a magnet enables the user to put it back into position correctly. It includes a stainless steel desktop support. It allows a surface installation.

### 9423 DUOX PLUS AUDIO GUARD UNIT

Three operation modes:

- **Day**: it receives calls from outdoor panels and apartments. The calls from the outdoor panel to apartments are always received in the guard unit.
- **Mixed**: the calls from the outdoor panels are received in the apartments and it can also be configured to forward them to the concierge unit after 15 s.
- **Night**: only calls from the outdoor panels to apartments are allowed. The guard unit does not receive any call.



# 4. REGENERATORS

It allows to regenerate and amplify the signal in both ways, as well as amplify distances and number of indoor terminals. Moreover, the connected sections to input and output protect against short-circuit, charge and signal reflections mutually. Maximum 5 units in cascade.



ref.3269



ref.3268

### 3269 2/W DUOX PLUS REGENERATOR

It has 1 input and 2 outputs. By having 2 outputs (also isolated from each other) it enables the number of risers to be increased. Requires 24Vdc power supply without filter (ref. 4840).

For more information: https://fermax.com/intl-en/documents

### 3268 1/W DUOX PLUS DUAL REGENERATOR

It has 2 inputs and 1 output. As per factory default settings, electrical energy does not flow, but this can be configured via a dipswitch so that the data (which regenerates) as well as the power supply can pass through. That way there is no need to always install a power supply at the output. The number of devices that can be fed at the output without additional power supply units will depend on the power that reaches the regenerator.

For more information: https://fermax.com/intl-en/documents

	3269	3268
Number of inputs	1	1
Number of outputs	2	1
Regenerates	YES	YES
Isolates	YES	YES
Incorporates power supply filter	YES	NO
Conversation channel per additional riser	NO	YES
		(in multichannel mode)



TECHNOLOGY video 2 non-polarised wires



# 5. DECODERS



### 9419 DUOX PLUS DECODER/ISOLATOR

10-outputs floor decoder. One output per home, allowing up to 3 terminals (monitors/telephones) per home. Multiple decoders can be installed on each floor.

Each output allows to increase the diversion distances on a floor up to 100 m.

In the event of a malfunction (short circuit) of any of the decoder's outputs, both the input DUOX PLUS bus and the rest of the outputs will continue to operate normally. In addition, when a short-circuit occurs on an output, the red LED associated with the output will light up, indicating the output on which the fault has occurred.

It is not necessary to enter a house to program the address of the terminal since the decoder includes a group of microswitches (dipswitches) to program the addresses of each of its outputs (sequential programming). Also, the decoder addresses can be programmed non-sequentially (open programming).

The decoder is powered directly from the DUOX PLUS bus. With DIN10 rail mounting and removable terminal strips for easy wiring and installation.

# 6. POWER SUPPLY AND ADAPTORS





VEO-XL MO

NO WIFI

34

30

NITOR

WIFI

24

22

12

### 3255

4825

TEL.

80

80

72

DUOX PLUS LINE ADAPTOR

ref.3255

TABLE OF NUMBER OF TERMINALS

1.0mm

0.5mm<sup>2</sup>

IN FLOOR DISTRIBUTION TOPOLOGY (4 PER FLOOR)

WIFI

28

24

VEO MONITOR

NO WIFI

40

40

ref.4825

VEO-XS MONITOR

WIFI

28

24

NO WIFI

40

40

TABLE OF NUMBER OF TERMINALS IN CASCADE TOPOLOGY

POWER SUPPLY+FILTER 24VDC-2.5A DIN10

	VEO MON	ITOR	VEO-XS MONITOR		VEO-XL MONITOR		TEL.
	NO WIFI WIF		NO WIFI	WIFI	NO WIFI	WIFI	
1.0mm <sup>2</sup>	40	26	40	22	30	20	60
0.5mm <sup>2</sup>	32	20	28	18	22	14	45
0.2mm <sup>2</sup>	16	12	14	10	10	8	25

Necessary at the beginning and the end of every riser.



### 3289 DUOX PLUS FILTER 24VDC

In case the ref. 4825 cannot be installed due to lack of space. This filter can be used only with 24Vdc power supply (ref. 4840). Do not use it with 18Vdc. power supply.

### **4840** POWER SUPPLY DIN-6 100-240VAC/24VDC-2A

To be used exclusively with the filter ref. 3289 or with the 2-way regenerator ref. 3269.

**4802** POWER SUPPLY DIN4 230VAC 12VAC/1A 12Vac for altern current lock release.

### 4800 POWER SUPPLY DIN4 230VAC 12VAC/1,5A

12Vac for altern current lock release.



# 7. DOOR LOCK RELEASE



# 8. ACCESSORIES



### UNIVERSAL DOOR LOCK RELEASE

**67501** UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc Normal operation and short shield P22. 10-24Vac/dc.

### **UNIVERSAL ELECTRIC STRIKE**

### 6750 UNIV. ELECTRIC STRIKE 990N MAX 10-24Vac/dc

Normal operation 10-24Vac/dc. Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893 or L22 ref.2892).

### 6752 UNIV. ELECTRIC STRIKE 990A MAX 12-24Vac/dc

Automatic operation 12-24Vac/dc. Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893 or L22 ref.2892).

### **ADDITIONAL FUNCTIONS**

### 3233 DUOX PLUS BASIC RELAY

Basic functions. Allows you to activate an additional function from F1 or F2 of the DUOX PLUS terminals, without additional wiring. The relay can also be activated by the call or by activating the lock release. It can be connected at any point of the bus.

### 3267 DUOX PLUS RELAY MODULE

Advanced functions. Allows you to pair 2 relays, 1 as a transmitter and other as a receiver, to perform remote activations. An address can be programmed with the address assistance (001-999) using the DUOX PLUS Programmer ref. 3254 via the relay's telephone connector.



### 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

It allows to activate high powered devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 per each monitor or handset.



### CABLES

5925 DUOX PLUS PARALLEL CABLE 2x1mm2

Cables are supplied in 100 metres rolls.





Solutions for buildings

The 100% IP system based on point-to-point infrastructure







**MEET** system provides superb HD VIDEO QUALITY and crystal clear audio communication. MEET is pure IP, so it allows the installer to define the IP range according to the project needs making the network management easier.

The system is based on panels with touch capacitive keypad or robust mechanical keypad, for indoors and a Guard Unit and two monitor aesthetics.

To ensure the safety of the community, MEET offers a great integration with CCTV cameras. In addition, lift control function provides maximum comfort to users.

TECHNOLO

IP SYSTEM

## SYSTEM FEATURES

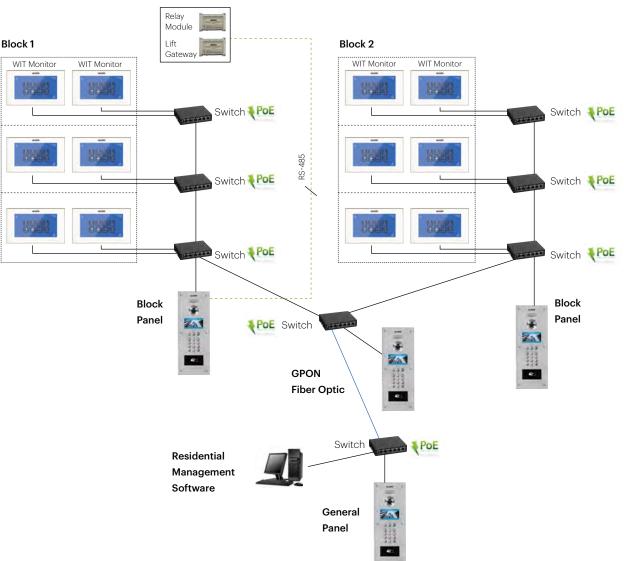


Wiring	UTP CAT5/CAT6. (non PoE devices like MILO need PoE splitter or 2 additional wires).
Maximum number of apartments	9899 per block.
Maximum number of outdoor panels	99 per block.
Maximum number of monitors per apartment	9 (1 master and 8 slaves)
Maximum number of blocks	999
Max. Number of Guard Units	98 guard units (General guard units or block guard units). The master general entrance
	guard units can be supported by 5 additional slave guard units.
Maximum distances	Unlimited
Private communication panel to apartment	Yes
Monitor Address Configuration	Static IP and apartment/block number.
Voice Synthesiser	Yes
Colour camera	HD Colour Camera as standard 1,2 Mpx (0,5 Lux).
Server required	No
Access Control integration	Yes. MIFARE readers integrated in digital panels as standard. Wiegand input/output on
	digital panels.
Facial recognition	Up to 6000 users (Residential Management Software required).
CCTV integration	IP RTSP video stream from the panel. IP CCTV video surveillance from the monitor. IP CCTV
	aerial camera during conversation.





DIAGRAM



Lift Control



# 1. OUTDOOR PANEL



POE





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

### **KIN** PANEL

KIN has a 10" capacitive touch screen and a graphite grey finish at the forefront of design, in addition to having hidden screws and a hidden speaker, with side grille.

### **ELECTRONIC DIRECTORY**

Home selection is easy: simply access the electronic directory to quickly search for the apartment you want to call. Navigating through user names is practical and accurate, making it possible to find the resident by choosing the first letter of the alphabet or just browsing the directory up and down.

### CUSTOMIZABLE TOUCH SCREEN

The user interface is dynamically adapted to the user's needs, guiding the visitor through the process and creating a pleasant user experience. All this thanks to the capacitive touch screen of the KIN panel, which incorporates a high resolution display (1024x600).

### 1.2Mpx COLOUR HD CAMERA

The camera has a high-definition image, providing excellent video quality. The camera is equipped with LED lighting for low light conditions. It is possible to send video stream directly from the panel to an IP CCTV security NVR using RTSP stream.

### ALPHANUMERIC CALL

Thanks to its display it is possible to call through alphanumeric codes from A to H, such as 7B or 121F.

### **PROXIMITY READER\***

In addition to offering great security features with the MIFARE proximity reader, the KIN panel supports integration of third-party readers such as HID and Wiegand.

### FACE RECOGNITION\*

It is possible to open the door and call the lift using the KIN face recognition system, allowing residents to access the condominium building quickly, and providing greater security and comfort to the system.

\* For the configuration of proximity cards and facial recognition, it is required the residential management SW and the key ref.9540.

1445 KIN TOUCH PANEL MEET

Panel: 185x405x50 mm

- 1449 KIN PANEL FLUSH BOX MEET Panel: 170x382x58 mm
- 9516 KIN PANEL SURFACE BOX MEET Panel: 189x413x6,5-110 mm











ref.9531







ref.953303

ref.9536

ref.9533

ref.9534



ref.9535

### MILO PANEL

Mechanical and touch, two different designs for smooth and accurate keypad use, to meet the different requirements of customers.

### LCD DISPLAY. DIGITAL VERSION

High contrast 4,3" TFT display module.

The display shows the communication status: calling, busy, etc.

### HD COLOUR CAMERA OF 1.2 MPX

The camera provides a high definition picture reverting in an excellent video quality.

The camera is equipped with LED lighting for low-light conditions. Additional video output RTSP IP.

### HIGH PROTECTION DIGITAL KEYPAD

Backlighted keypad allows to dial in poor light conditions. Its compact design guarantees reliability and resistance in any environment. IP54.

### **FACE RECOGNITION\***

It is possible to open the door by face recognition, enabling the opening to the residents in the community and increasing the safety and comfort of the system. (Not available in MILO 1L).

### PROXIMITY ACCESS CONTROL

MIFARE proximity access control reader included. Access can be granted to users reinforcing the security of the building.

It also allows to connect a third-party reader directly to the panel or receive the information from the card through the Wiegand output to integrate it into external controllers (digital panel).

\* For the configuration of proximity cards and facial recognition, it is required the residential management SW and the key ref.9540.

9531	MILO DIGITAL VIDEO PANEL MEET
9532	MILO TOUCH VIDEO PANEL MEET
	Panel: 155x380x48mm. 1,2 Mpx
9536	DIRECTORY MILO PANEL MEET
	Flush box 143x357x58mm. Flush box not included.
9542	MILO PANEL FLUSH BOX- L MEET
	Flush box 143x357x58mm
9517	MILO DIGITAL PANEL SURFACE BOX MEET
	Flush box: 160x387x66-108mm
9533	1/W MILO VIDEO PANEL MEET
9534	1/W MILO VIDEO PANEL WITH PROX MEET
953303	1/W MILO VIDEO BLACK PANEL MEET
	Panel: 118x183x49mm. 1 Mpx.
9535	MEET PROXIMITY READER
	Panel: 118x183x49mm.
9543	MEET PANEL FLUSH - S
	Flush box: 105x172,5x63mm
9518	1/W MILO PANEL SURFACE BOX MEET
	Flush box: 123x190x66-106mm
14591	MEET FLUSH BOX JOINING BOLTS SET Separation between 14mm flush box





IP54 (KO9) 4PoE





For more technical information please check the table and diagrams section at the end of this catalogue.

### **MARINE** PANEL

IECHNOL(

IP SYSTEM

The resistance of the stainless steel combined with the FERMAX technology and design. The MARINE MEET outdoor panel is the Fermax vandal-proof audio and video door entry panel. Made in **stainless steel 316L, 3mm-thick**. It is a highly resistant panel due to its excellent quality in terms of both materials and production and assembly process.

### MAXIMUM RESISTANCE

This video door entry panel is recommended for projects where the high level of security is required or in places with extreme weather conditions. All this thanks to its compact design and sealing that guarantees reliability and resistance against external factors **IP54** and the **IKO9** impact resistant rating. MARINE is a video door entry solution that resists the wet and corrosive climates and extreme temperatures of -40°C, +70°C.

### 1.3 Mpx HD CAMERA

The camera provides a high definition image reverting in an excellent video quality. The camera is equipped with LED lighting for low-light conditions. Additional video output RTSP IP.

### ADAPTED TO ALL

It includes a wide-angle camera with **horizontal vision angle 128° and vertical 70°.** This facilitates the installation and use of the panel in the event of visitors in wheelchairs.

It is engraved with **Braille** which allows you to identify the call key via engraving on the panel surface.

### SECURITY AS STANDARD\*

Cutting-edge technology used in **face recognition**.

Thanks to the **proximity reader** with MIFARE technology you can open the door dialling a code on the panel keypad or by sending the code to an external access controller that validates the access.

### DISPLAY MODULE WITH DIRECTORY

Welcome logo or on-screen information useful for visitors. Thanks to the electronic directory you can search for any name or apartment that you wish to call.

\* For the configuration of proximity cards and facial recognition, it is required the residential management SW and the key ref.9540.

- 1455 MARINE DIGITAL VIDEO PANEL MEET 155x 410x 49mm
- 1456 MARINE DIRECTORY PANEL MEET 155x410x49mm. Flush box not included.
- 1458 MARINE PANEL SURFACE BOX MEET 159x412x63.5mm
- 1459 MARINE PANEL FLUSH BOX MEET 141x394x60mm
- 14591 MEET FLUSH BOX JOINING BOLTS SET Separation between 14mm flush boxes

# MARINE





RAL 9005

RAL 9016

RAL 3020

RAL 5005

RAI 9018

GOLD COLOUR

### MEET MARINE ELITE PANEL

# FERMAX has a **laser-cut machining line for stainless steel panels.**

This process allows us to offer complete flexibility when it comes to making the MARINE panel required with optimal delivery time for the customised panel.

The MARINE Elite panels are available in **several colours** (indicate the desired RAL when ordering your panel).

The Marine Elite stainless steel panels are also available in brass colour.

### 31729 MEET MARINE ELITE PANEL

The following variations may be ordered:

- Panel with special dimensions.
- Integration of access control modules.
- Only in digital version.

4579	SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL
4580	SPECIAL MARINE FLUSH BOX
4581	SPECIAL MARINE SURFACE BOX (WITH HOOD)



Puede encontrar los formularios de placas y marcos especiales en nuestra web: https://fermax.com/intl-en/tools/special-panels

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	£	

BRASS COLOUR Surface boxes and hoods are not available in brass colour.

Check for availability in other colours.



# 2. MONITORS



The **NEO Monitor** is a symbol of modern urban residences represented by its compact and minimalistic design. Cool, elegant and intuitive, NEO is the perfect complement for your dreamed house.

An advanced management monitor, with hands-free communication, digital audio quality and high definition video. Its **7" TFT incorporates a capacitive touch screen** that offers a user-friendly experience by means of graphic icons and notification LEDs (missed calls, messages, do not disturb).

**NEO** is not only distinguished by its outer elegant simplicity, but also by the most user-friendly menu oriented to residential communication.

- It enables the intercommunication between the monitors in the same house as well as with other apartments.
- The monitor manages **7 alarm zones** plus tamper that can be activated or deactivated according to 3 scenarios: DAY, NIGHT and OUT. Alarms are notified to the Guard Unit and management software.
- It is possible to activate up to 8 external relays by using the relay module ref.1616.

TECHNOLO

IP SYSTEM

- Up to 8 CCTV IP cameras visualization.
- PoE Power Supply



ref.9541

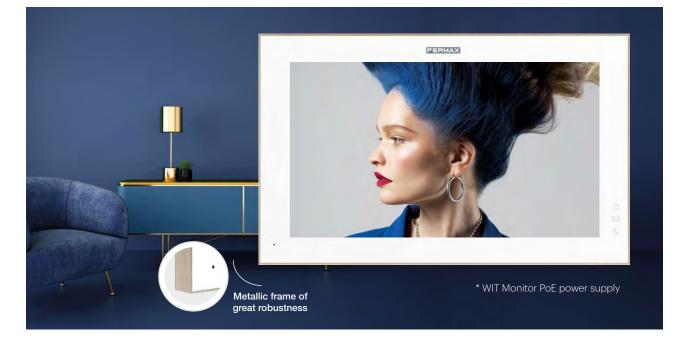


PoE	14501	NEO 7" MONITOR PoE WHITE MEET Dimensions 203x129x17.5 mm
	9541	<b>NEO/WIT MONITOR CONNECTOR MEET</b> Mounting support for the NEO/WIT monitor on the wall. Includes monitor connection cables.
	1485	MONITOR DESKTOP SUPPORT MEET Compatible with the MEET monitors. Connector ref. 9541 is required for its installation.

ref.1485







The **WIT monitor** presents a renewed and distinguished aesthetic for the most exclusive environments. It includes a metallic frame that offers a greater robustness to the monitor design.

WIT touchscreen interface lets the user to answer calls and to manage missed calls, view and download the captured images, read the messages sent by the administrator, **visualize the video surveillance cameras, activate external relays**, notify alarms in the monitor and the guard unit, and even control the home automation in the apartment.

The exclusive aesthetics of WIT is supported by avant-garde technology that allows the installation of APPs\*, which increases the added value and functionality of the monitor.

For a simpler installation, **WIT monitors can be powered by PoE switches**, which means that it is not required a dedicated power supply.

The **10" WIT** monitor is specially designed for integration with Home Automation, since it is the only monitor that incorporates **two RJ-45 network interfaces**, being able to connect to both, the building IP network and the apartment local network. Therefore maintaining the isolation between networks and the flexibility in connectivity. Its surface or **flush mounted** installation allows to adapt the solution to the most demanding architectural designs.

	POE	14701	7" WIT MONITOR PoE WHITE MEET
		14703	7" WIT MONITOR POE BLACK MEET 1 connector RJ-45. Dimensions: 212x132,5x20mm
1	ref.9541	14811	10" WIT MONITOR HOME AUTOMATION POE WHITE MEET
		14813	<b>10" WIT MONITOR HOME AUTOMATION POE BLACK MEET</b> 2 connectors R-J45. Dimensions: 270x168x20mm
		1489	10" WIT MONITOR FLUSH BOX MEET (9541 connector required). Dimensions: 255x155x50mm
		9541	MIO/WIT MONITOR CONNECTOR MEET Mounting support for the MIO/WIT monitor on the wall. Includes monitor connection cables.
	ref.1485	1485	MONITOR DESKTOP SUPPORT MEET Compatible with the MEET monitors. Connector ref. 9541 is required for its installation.

\*The installation of APPs has to be done by an authorised professional. Apps must be compatible and certified by FERMAX.



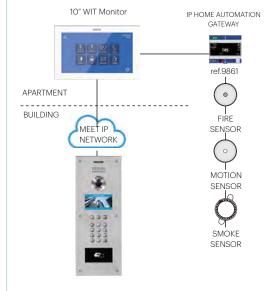
# 3. HOME AUTOMATION INTEGRATION

IP SYSTEM

**TECHNOLOG** 







MEET provides full freedom of choice through solutions adapted to other existing home automation systems and technologies. This system generates synergies by means of unlimited solutions, enabling the integration, interaction and compatibility with other technologies.

On MEET installations, the 10" WIT monitor allows to integrate an application for the home automation management. It requires the Web BUSing server (ref.9862) o KNX Web server (ref.9861). These servers also enable a mobile remote control of home automation.

meet.fermax.com							
COMPATIBLE BRANDS							
	BUSing	wings	FIBARO	Schneider			
linphene Genetec		W Wildix	Control 🔇	embedded Osystems			

### DISCOVER MEET WORKS WITH INTEGRATION



HOME AUTOMATION **INTEGRATION WITH APPS** Home automation management from the MEET monitors – Compatibility with Android Apps.

In many residential projects, home automation and video door entry systems converge, duplicating the screens with which the user interacts and hence increasing costs unnecessarily.

The use of a **MEET touchscreen monitor allows the management of the home automation** of all the residential communication from a single user interface, reducing the configuration time and providing a better aesthetic solution.



**SIP** INTEGRATION Integration with telephone systems, software video telephones or desktop telephones. SIP Compatibility.

In non-residential environments such as offices, companies or factories, it is common to have an IP telephone system based on the SIP protocol.

MEET not only **saves installation costs by taking advantage of the existing IP network cabling**, but can also intercommunicate with the telephone system, allowing MEET outdoor panels to make calls to the telephone extensions, either to desktop terminals or a call reception software on a computer.

# 4. CALL DIVERT

# CALL DIVERT with MEET ME app

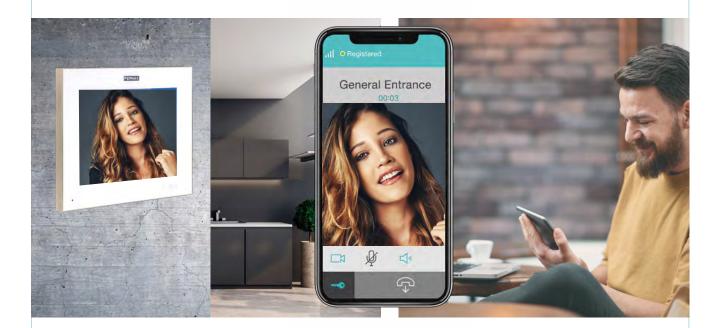
With MEET, the possibility of receiving calls on the mobile phone comes as standard, provided that a monitor is installed in the apartment. This enables to establish communication with the entrance panel and open the door. It allows you to see who is calling before answering the call.

As easy for the user as downloading the **free MEET ME APP** on Google Play or Apple Store. Just enter the user and password included in the monitor. Up to 8 smartphones in the same apartment can receive the call simultaneously.

The installation cannot be easier: it does not require additional devices in the installation. Just connect the MEET IP network to the Internet\*. Thanks to MEET ME Cloud architecture, the installation is simple.

- Up to 8 smartphones per the same apartment.
- Doorlock relase and one auxiliar relay.
- Display of additional cameras during a call (up to 4).
- "Do not disturb" more for app (no need to log out).
- IPv6 compatible.

\* Common Internet access to the building is required for MEET ME call forwarding. Internet access with enough upload bandwidth is necessary based on the network traffic generated by the outdoor panels.



### 1496 MEET ME CALL FORWARDING LICENSE

This license comes included as standard with MEET monitors, so it is only necessary when there is no monitor in the house





ername: 3400018

Password: CED7HI3V



# TECHNOLOGY

# 5. GUARD UNIT



Dimensions: 311 x 203 mm

\*12Vdc power supply necessary

Ergonomically designed to provide a comfortable use, the MEET Guard Unit integrates a large touchscreen for an intuitive interaction.

MEET guard unit is the desktop device that will enable a concierge to communicate with any panel or apartment.

Its **9" touch screen** enables the guard unit to receive alarms from monitors and panels. Thanks to its user interface it is possible to review any missed calls and communicate later with the apartment.

### FEATURES

- Call divert to a MEET ME app.
- Aluminium profile.
- Resistant touch screen panel.
- · Handset or hands-free audio communication.
- 9" colour TFT screen.
- Audible and visual alarm notifications.
- It can be integrated with CCTV IP camera by RTSP (concierge camera).
- Automatic answering function of panels.

### 9539 MEET GUARD UNIT

### **FEATURES**

### CALL TO APARTMENT

The property management or concierge is able to contact any resident of the community using the guard unit's call to apartment function. The concierge must enter the block number and/or apartment number to call. If an IP camera is connected to the guard unit, a video communication between concierge and apartment is established, otherwise it is only audio communication.

### CALL LOG

The concierge can have a clear view of their call history in the CALL LOG interface and browse through the pictures taken. Maximum number of call logs: 20.

The Guard Unit allows audio and video recording when the call from panel is not answered (additional SD card required).

### **GUARD TO GUARD CALL**

Guards can call each other when needed.

To call a guard unit, the user must enter the guard unit's number. For instance, if the main guard unit is to be contacted the concierge should enter 9901 to establish the call.

### ALARM LOG

The guard unit provides a quick view of the most recent alarm events. These records can be found at the ALARM LOG interface. Each record includes: date and time, apartment or panel number and triggered alarm zones. Maximum number of records: 500.

The administrator can access to a complete alarm record using the management software.

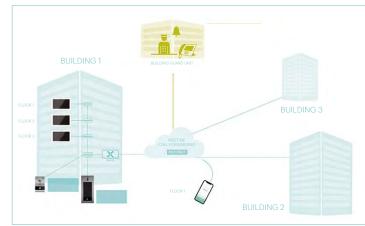
### CAMERA ON

The guard unit can connect to any digital panel and open the video channel when needed by simply entering the panel's number. Once connected the guard can take pictures, open the audio channel, open the door or simply hang up.



# 6. ADVANCED FEATURES

### **GUARD UNIT FOR MULTIPLE APARTMENTS**



#### COMPATIBILITY WITH SIP

#### ANSWER THE CALL FROM A PERSONAL COMPUTER

SIP compatibility allows receiving calls from the outdoor panels on a computer. For this, it is required to have a Voice over IP software, compatible with SIP, installed on a computer, such as **LINPHONE**. The integration with IVMS software for managing installations is also possible, which incorporates SIP clients such as **GENETEC** - Sipelia.

#### ANSWER THE CALL FROM A TELEPHONE SYSTEM

In the installations where an IP telephone system compatible with SIP already exists, such as in offices or shopping centres, it will be possible to answer the call from one of the telephones previously installed. Thanks to the SIP compatibility, the FERMAX outdoor panels will be an additional extension to the IP telephone central guard unit and calls from the panels will be received at the terminals assigned in the central guard unit.



Different outdoor panels from different buildings can

These remote guard units can call and connect with

It is only necessary to acquire one **REF.1496 MEET ME LICENSE** per guard unit for its use at the desk

concierge. This license allows the concierge to register

call one or several remote guard units.

the outdoor panels.

on the MEET ME cloud server.

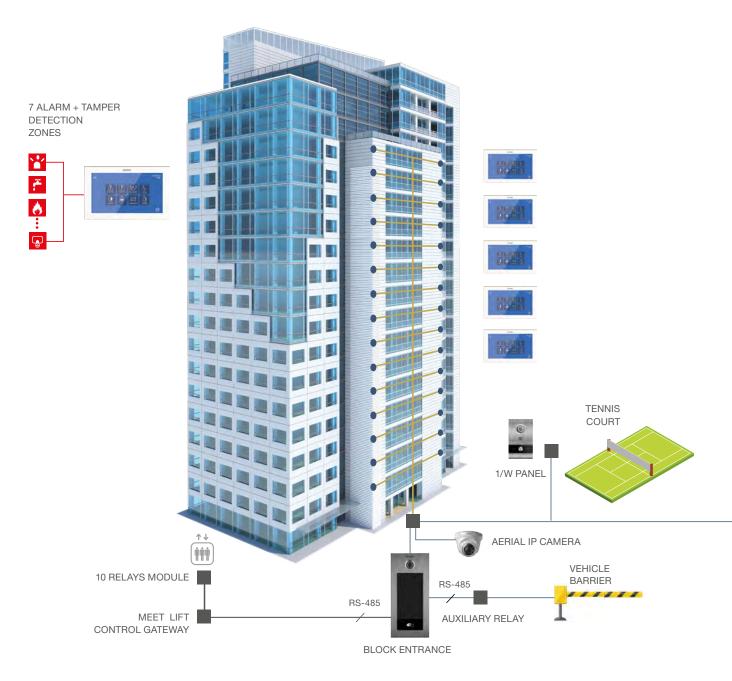
#### **GPON OPTICAL FIBER**



- Being a 100% IP system, there is no distance limit because it can be installed in fiber optic infrastructures such as GPON.
- The main advantage is that the cost of the network infrastructure is much lower than an Ethernet or conventional active fiber optic network.
- There can be numerous IP services on the same infrastructure such as IP TV, IP voice calls, IP CCTV, etc. As a result, the costs of the infrastructure are shared between several services.



TECHNOLOGY IP SYSTEM



#### **TECHNICAL CAPABILITIES**

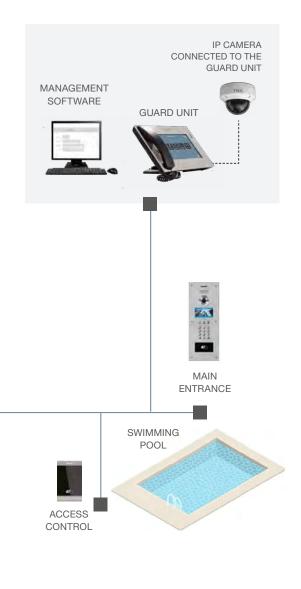
- Virtually unlimited number of units can run under MEET installation.
- 2 Unlimited distances from end to end of the installation.
- 3 Multichannel for conversations and data flows, with unlimited capacity.
- 4 GPON fiber optic infrastructure compatible.



#### WIRING

 CAT5 CABLE
 FIBER OPTICS*
 ALARM
 LIFT

\* A converter is required to switch from UTP to FO.







ref.1498



MODERN PROTOCOL

Flexible, quick and adaptable. Fermax MEET is a highly efficient peer to peer IP protocol based system. Easy to install, debug and maintain. MEET system's flexible IP addressing eases the network management structure.

Decentralised architecture communication structure allowing each terminal to work independently without a need of a centralised server. The system is compatible with GPON networks.

#### COMPLETE SOLUTION

......

Communication, alarms, lift control\* and access control. MEET allows to communicate with the visitor and offer them a safe pass through doors.

Its centralised alarm infrastructure provides a 24/7 protection against intrusion and the unexpected. Its complete lift control function allows you to see the lift's status clearly, there is no need to worry that you will miss the lift again.



52750	PROXIMITY CARD MIFARE
52740	PROXIMITY KEYRING MIFARE
9538	MEET PC DESKTOP PROXIMITY READER
9540	MEET MANAGEMENT SOFTWARE
9545	MEET LIFT CONTROL GATEWAY
1616	10 RELAY MODULE
1490	EXTERNAL DOORLOCK RELAY It allows the simulteneous activation of a second relay in parallel to the panel or as a secondary relay on 1W panels.
1491	4 RELAY PANEL MODULE Only for digital panels.
1494	GUEST CODE MODULE Third party access control integration is required.
1465	LIFT DISPATCH MODULE 32 inputs

# 6. POWER SUPPLY AND SWITCHER

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

1 PSU per each 4 devices is required. It is recommended that each outdoor panel and GU has its own power supply for installation convenience.

1586	4 PoE PORTS SWITCH + 2 UPLINKS PORTS
1587	8 PoE PORTS SWITCH + 2 UPLINKS PORTS
1498	12Vdc PoE SPLITTER







FROM YOUR MOBILE YOU CAN PERFORM THE FUNCTIONS THAT YOU NORMALLY DO FROM YOUR HOME'S TERMINAL AND MUCH MORE!

VDS

Solutions for buildings

**5 WIRES BUS** 





# TECHNOLOGY **VDS** 5 WIRES BUS

# A DIGITAL SIMPLIFIED INSTALLATION SYSTEM THAT DOES NOT USE HOUSE CALL WIRES.

The necessary wiring in the building's riser is:

- Audio entry system: 3 common wires.
- Video entry system:
- 3 common wires+1 coaxial / 5 wires /UTP CAT5

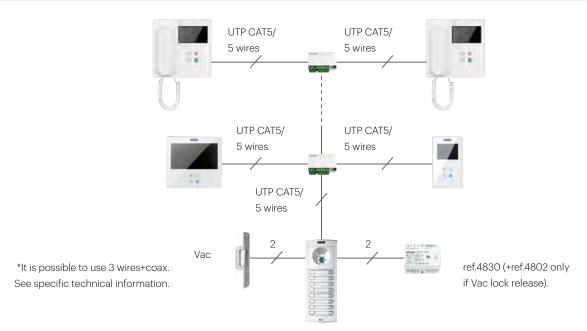
For buildings of up to 199 homes, 2 entry accesses and central guard unit. Maximum distance: 200 m.



# COMPOSITION



# VIDEO DIAGRAM

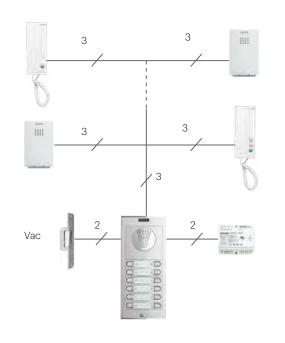




# SYSTEM FEATURES

Wiring	Bus of 5 wires, UTP CAT5 or 3 wires+coax.
Maximum number of apartments	199
Maximum number of outdoor panels	2
Maximum number of guard units	1
Maximum distance	200 m (see technical VDS information).
Private communication outdoor panel-apt.	Yes
Change from a 4+N audio to VDS video	Yes (using the existing wiring).
Monitor address configuration	Required (addresses 1-199).
Voice synthesiser	Yes. Message: "The door is open. Please, close the door behind you". 32 languages.
Camera	Colour camera.

# AUDIO DIAGRAM



ref.4830 (+ref.4802 only if Vac lock release).



# TECHNOLOGY **VDS** 5 WIRES BUS

# 1. OUTDOOR PANEL



#### SKYLINE PANEL

SKYLINE manufacturing materials include anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate transparent elements and stainless steel inner grids. For contemporary installations that require multiple integration systems: information, communication and access control.

Includes a **COLOUR CAMERA** and additional night vision lighting with 6 LEDS.

Its versatility makes it the only panel able to fulfil any requirements which may arise in any residential, industrial or service sector project. Its modular design and versatility provide **TOTAL FREEDOM** to create numerous combinations.





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.

VDS

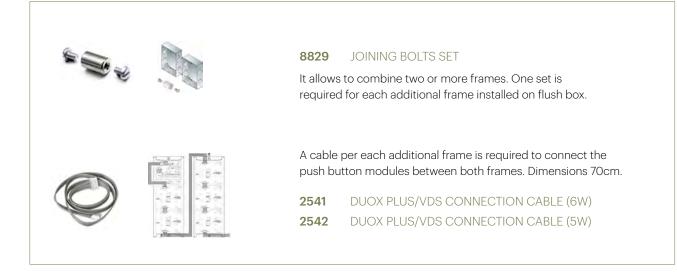
SKYLINE consists of 8 different-sized frames where different modules can easily be fitted. Modules come in 2 sizes, designated V and W. **W is twice the size of V**.



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



# TECHNOLOGY **VDS** 5 WIRES BUS



# SKYLINE AND CITYLINE ACCESSORIES

			σάσσορι	e bueuueuu #0				
	FLUSH	SURFACE	нс	HOOD		CITY FRAME		ANGULAR
	BOX	BOX	SINGLE	DOUBLE	FRAME	SINGLE	DOUBLE	COMPLEMENT
S1	<b>ref.8851</b> 115x114x45	<b>ref.7061</b> 130x128x33	<b>ref.8400</b> 135x130	-	<b>ref.9191</b> 211x210	<b>ref.8251</b> 225x310	-	ref.8378
S2	<b>ref.8852</b> 115x138x45	<b>ref.7062</b> 130x151x33	<b>ref.8401</b> 135x155	-	<b>ref.9192</b> 211x234	<b>ref.8252</b> 225x310	-	ref.8379
CITYLINE only	<b>ref.8853</b> 115x162x45	<b>ref.7063</b> 130x175x33	<b>ref.8402</b> 135x177,5	-	<b>ref.9193</b> 211x257	<b>ref.8253</b> 225x375	-	ref.8380
S4	<b>ref.8854</b> 115x185x45	<b>ref.7064</b> 130x199x33	<b>ref.8403</b> 135x203	<b>ref.8411</b> 265x203	<b>ref.9194</b> 211x281	<b>ref.8254</b> 225x375	<b>ref.8427</b> 355x385	ref.8381
S5	<b>ref.8855</b> 115x233x45	<b>ref.7065</b> 130x246x33	<b>ref.8404</b> 135x250	<b>ref.8412</b> 265x250	<b>ref.9195</b> 211x329	<b>ref.8255</b> 225x375	<b>ref.8428</b> 355x385	ref.8382
S6	<b>ref.8856</b> 115x280x45	<b>ref.7066</b> 130x294x33	<b>ref.8405</b> 135x300	<b>ref.8413</b> 265x300	<b>ref.9196</b> 211x376	<b>ref.8256</b> 225x450	<b>ref.8429</b> 355x460	ref.8383
S7	<b>ref.8857</b> 115x328x45	<b>ref.7067</b> 130x341x33	<b>ref.8406</b> 135x345	<b>ref.8414</b> 265x345	<b>ref.9197</b> 211x424	<b>ref.8257</b> 225x450	<b>ref.8430</b> 355x460	ref.8384
S8	<b>ref.8858</b> 115x375x45	<b>ref.7068</b> 130x389x33	<b>ref.8407</b> 135x393	<b>ref.8415</b> 265x393	<b>ref.9198</b> 211x471	<b>ref.8258</b> 225x450	<b>ref.8431</b> 355x460	ref.8385
S9	<b>ref.8982</b> 115x420,5x45	<b>ref.7069</b> 130x436,5x33	<b>ref.8480</b> 135x440,5	<b>ref.8483</b> 265x440,5	<b>ref.9199</b> 211x519	<b>ref.8259</b> 225x495	<b>ref.8474</b> 355x500	ref.8386

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

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

# 1. OUTDOOR PANEL



#### MARINE PANEL

**MARINE** is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP65 IK09.

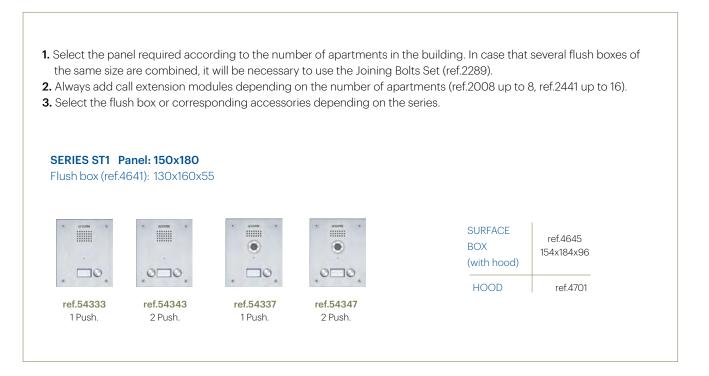
Straight lines that highlight the quality of the steel, resistant to even the most corrosive, humid and dangerous environments makes the Marine panel the most suitable and designed option for vandal-resistant installations.

It incorporates **voice synthesizer**: "The door is open. Please, close the door behind you" is emitted while the door is opening. Available in 32 languages.

Includes a **COLOUR CAMERA** and additional night vision lighting with 6 LEDS.

To see the general features of MARINE panel, see page 50 in the DUOX PLUS section.

#### PUSH BUTTONS MARINE PANELS



FLUSH OR SURFACE BOX must be requested separately. The surface boxes include a hood. Note: For more MARINE push buttons panels see SPECIAL MARINE PANELS. VDS



#### **DIGITAL MARINE PANEL**

- **DIGITAL MARINE** 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.

TECHNOLOGY

**5 WIRES BUS** 

- ${\scriptstyle \bullet}$  Once the code is introduced, press the BELL KEY to call.
- The metallic keys are made of zamak and they are permanently backlighted.
- Throughout the keypad it is possible to open the door by dialling a PIN code. There are 350 different users/codes in VDS system.



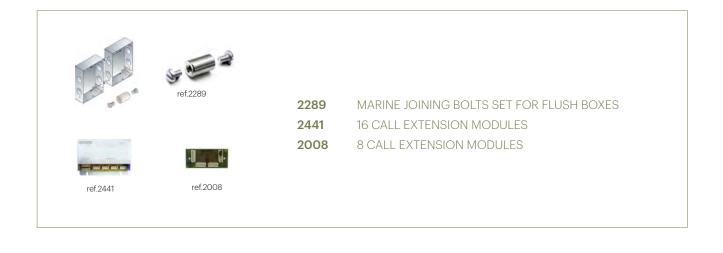
5468	VDS DIGITAL VIDEO MARINE PANEL ST3
5471	MARINE ST3 DIRECTORY PANEL
4643	MARINE FLUSH BOX ST3
4647	MARINE ST3 SURFACE BOX
4703	MARINE ST3 HOOD
2289	MARINE JOINING BOLTS SET FOR FLUSH BOX

#### SERIES ST3 Panel: 150x360

VDS

Flush box (ref.4643): 130x340x55

SURFACE BOX (with hood)	ref.4647 154x364x96	HOOD	ref.4703	
-------------------------------	------------------------	------	----------	--



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



MANUFACTURING PROCESS OF MARINE PANELS



#### MARINE ELITE PANEL

FERMAX has a laser-cut machining line for stainless steel panels. This process allows us to offer complete flexibility when it comes to making the MARINE panel required with optimal delivery time.

	* ****** * ******* *	W <sup>244</sup>
	C C C C C C C C C C C C C C C C C C C	
RAL 9005	GOLD COLOUR	BRASS COLOUR

#### 31727 VDS MARINE ELITE PANEL

The following variations may be ordered:

- · Panel with special formats and dimensions.
- · Integration of access control modules and special combinations.
- $\cdot$  Logotype laser marking. The engraving of panels is only available on the panels with stainless steel colour. Other colours cannot be engraved.
- · Residence/Building number and messages integration.
- · Push buttons without card slot and free layout.
- · Backlight option.

4579	SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL
4580	SPECIAL MARINE FLUSH BOX
4581	SPECIAL MARINE SURFACE BOX (WITH HOOD)

Surface boxes and hoods are not available in brass colour.

The MARINE Elite panels are available in several colours: indicate the desired RAL when ordering your panel.







RAL 9018

RAL 9016

Check for availability in other colours

You can find the SPECIAL MARINE application form at: https://fermax.com/intl-en/tools/special-panels

VDS





# 2. MONITORS AND TELEPHONES

#### MONITORS



# VEO

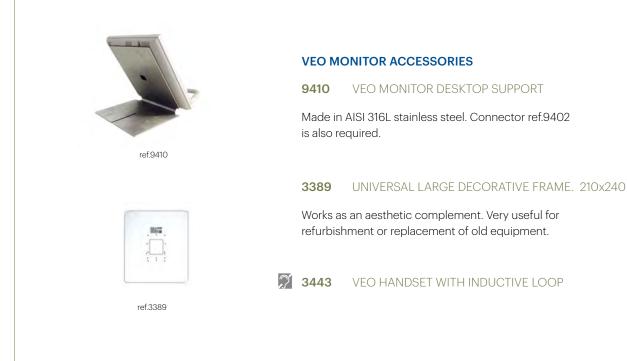
VEO. Colour monitors with 4,3" (16:9) screen, manufactured in high impact ABS plastic. The monitor includes: control of brightness, contrast and colour, audio volume, call tone volume, 'Do Not Disturb' function, door bell, adjustment of date and time. The pleasant touch silicone push buttons allow to activate the lock release, the outdoor panel camera or any other additional and configurable function as: activate the second access, courtesy light, etc. Available in white colour. Surface installation.

9401	VDS COLOUR VEO MONITOR
Dimensi	ions: 200x200x23mm. (44 with handset)

9402 VDS VEO MONITOR CONNNECTOR



Metallic support to mount the VEO VDS monitor on the wall surface.



Works as an aesthetic complement. Very useful for refurbishment or replacement of old equipment.

VEO HANDSET WITH INDUCTIVE LOOP

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





Dimensions: 185x172x21mm

Dimensions: 103x172x21mm



Dimensions: 185x172x21mm

ref 6565

ref.3388

# **SMiLe**

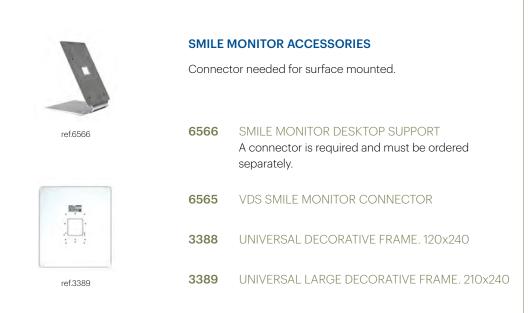
**SMILE.** Hands-free monitor with 7" or 3,5" TFT colour screen (depending on model). Frontal of high resistance to scratches and UV protection. Digital audio quality. Configuration of parameters from the on screen OSD menu.

6545	3,5" SMILE MONITOR
6550	7" SMILE MONITOR
6565	VDS SMILE MONITOR CONNECTOR

# **SMILE** TOUCH

The **7" SMILE TOUCH** model includes a capacitive touchscreen. It can be installed on surface or flush mounted. All the models include, among others, adjustment of call volume, 'Do Not Disturb' function, selection of melodies (5), door bell, programming of the monitor address from the monitor itself, control of audio volume, adjustment of image, auxiliary video input (CCTV camera connection), personalisation of direct access buttons to different functions and inductive loop (depending on model).

**6575** 7" SMILE TOUCH MONITOR







### **TELEPHONES**

**LOFT** and **iLOFT** telephones include the following features:

- Door opener button and call to guard.
- Door bell.

Additionally, the  $\ensuremath{\textbf{LOFT}}$  EXTRA and  $\ensuremath{\textbf{iLOFT}}$  telephones include:

- 2 buttons for additional functions: stair light switching, second door opening, panic call, etc.
- LOFT EXTRA with 2 selectable ringtones and iLOFT with 5 selectable ringtones.
- Volume control.



**LOFT:** Made of high-impact ABS with a texturised finish for easy cleaning and ultraviolet protection. It has many attachment points for wall mounting, as well a coiled cord with telephone plug connectors. A magnet located in the handset facilitates to hang it up correctly. Dimensions: 85x220x40mm

3390 VDS LOFT BASIC TELEPHONE3391 VDS LOFT EXTRA TELEPHONE

**iLOFT:** Compact and extra slim. Made of ABS. iLOFT telephone allows communication with the outdoor panel in hands-free mode. The audio digital technology ensures a high quality communication free of interferences.

Hands-free. Dimensions: 90x146,5x20mm

5601 VDS iLOFT TELEPHONE



#### **TELEPHONE ACCESSORIES**

Ņ

Fermax desktop supports allow a call from the entrance phone to be answered from the office desktop. Made in stainless steel (AISI 316L).

3749	LOFT TELEPHONE DESKTOP SUPPORT
5636	iLOFT TELEPHONE DESKTOP SUPPORT
3380	LOFT TELEPHONE DECORATIVE FRAME. 200X240
3388	UNIVERSAL DECORATIVE FRAME. 120X240
3389	UNIVERSAL LARGE DECORATIVE FRAME. 210X240
3441	LOFT HANDSET WITH INDUCTIVE LOOP

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

ref.3389

# 3. GUARD UNIT



# 4. VIDEO DISTRIBUTORS

		It is recommended to carry out all video signal distribution by means of distributors.
		2448 2 WAYS VIDEO DISTRIBUTOR
		<b>2449</b> 4 WAYS VIDEO DISTRIBUTOR
ref 2448	ref.3260	Compact sized distributor (44x44x16) designed to be fitted in appliance cabinets and 50mm standard junction boxes. Recommended in
Tel.2446	161.3200	installations without coax cable.
		<b>3260</b> 2 WAYS VIDEO MINI DISTRIBUTOR
		<b>3262</b> 4 WAYS VIDEO MINI DISTRIBUTOR

# 5. SWITCHER / DECODER



ref.2450

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

#### **2450** VDS VIDEO SWITCHER1

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.

#### COMBINATION WITH OTHER SYSTEMS

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.

2409 VDS/MDS DECODER

VDS



# TECHNOLOGY **VDS** 5 WIRES BUS

# 6. POWER SUPPLY

	<b>4830</b> POWER SUPPLY 18Vdc/3,5 A DIN6.
CHID & CHID * CHID * CHID *	1 P.S. = max. 40 monitors.
ref.4830 ref.4812	4812 POWER SUPPLY DIN6 100-240Vac/18Vdc-1,5A
	1 P.S. = max. 24 monitors.
teres a constant di interestatione e constante e const	
	<b>4810</b> POWER SUPPLY 18Vcc/1,5A-12Vca/1,5A DIN10.
	1 P.S. = max. 24 monitors
. aum . amminimition.	12Vac output to supply 12Vac locks.
ref.4810	
	4802 POWER SUPPLY DIN4 230VAC 12VAC/1A
	To supply 12Vac locks.
1 · · · · · · · · · · · · · · · · · · ·	
TO COLOR TO	4800 POWER SUPPLY DIN4 230VAC 12VAC/1A
	To supply 12Vac locks.
. o o e .	
ref.4802 ref.4800	
	1021 EMERGENCY MODULE 18Vdc
	For operation in the event of power cuts. Requires 2 lead
	acid batteries 12V/2,2A (ref.2070).
10 D	<b>2070</b> BATTERY 12V/2,2A
*(III) • descritititititit)*	ZUTU DATLENTIZV/Z,ZA
ref.1021	

# 7. LOCK RELEASE



#### UNIVERSAL LOCK RELEASE

**67501** UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc Normal operation and short shield P22. 10-24Vac/dc.

#### UNIVERSAL ELECTRIC STRIKE

6750 UNIV. ELECTRIC STRIKE 990N MAX 10-24Vdc/ac

Normal operation 10-24Vac/dc. Requires a short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893 or L22 ref.2892).

#### 6752 UNIV. ELECTRIC STRIKE 990A MAX 12-24Vac/dc

Automatic operation 12-24Vac/dc. Requires short shield (S ref.2973 or P22 ref.2894) or large (M ref.2893 or L22 ref.2892).

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

# 8. ACCESSORIES



# FROM YOUR MOBILE YOU CAN PERFORM THE FUNCTIONS THAT YOU NORMALLY DO FROM YOUR HOME'S TERMINAL AND MUCH MORE!



ref.3266

WIBOX

#### 3266 WI-BOX MODULE

Wi-Box is a small module that allows you to connect one or more mobile phones to your home's VDS monitor or telephone. Just download the App and pair Wi-Box with your WiFi network. Dimensions: 80x80x20mm

# **NEW FEATURES**

- Direct opening of the door without autoon.
- Customisation of security pattern for opening action (password/ biometric confirmation/quick opening without security).
- Phococaller function in app (if video panel installed).
- IPv6 compatible.
- Tablet compatible.

See complete features of the monitor and the app on page 180-181.



# ADVANTAGES

#### SEGURITY

You can receive calls even if you're not at home.

#### MORE PEACE OF MIND

You'll be able to **connect to the outdoor panel** without calling ahead of time. Or activate an extra camera from your holiday destination.





#### COMFORT

You can **open the door** to your visitors from the comfort of your sofa.

#### MORE MOBILITY

You can open the door with your mobile phone. No need to carry your keys.



# TECHNOLOGY **VDS** 5 WIRES BUS



WIR LAP DE COL

ref.2013

ref.29001

#### 4545 TELEPHONE INTERFACE

Installed in the home and connected to the telephone network, it allows for the communication (only audio) 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. Every telephone interface requires one power supply unit ref.4800. It is not recommended for telephone installations with fiber optics.

#### **ADDITIONAL FUNCTIONS**

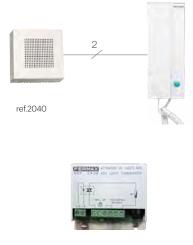
#### 2013 ADDITIONAL FUNCTIONS RELAY

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 2nd door, etc. Activation by 12Vdc, 12Vac or 18Vdc.

#### 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.2438

#### 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 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 per monitor or handset.



It is possible to expand video door entry installations with a 2nd external CCTV camera and select and view it from the monitor (expandable up to

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

9980	PERIPHERAL CCTV DOME CAMERA
9981	PERIPHERAL CCTV BULLET CAMERA
9982	POWER SUPPLY PERIPHERAL CCTV CAMERA
9983	BALUNS PAIR PERIPHERAL CCTV CAMERA
9984	POWER ADAPTOR PERIPHERAL CCTV CAMERA

VDS

VDS



# MDS

Solutions for buildings





MDS (MULTIPLEXED DIGITAL SYSTEM) IS AN AUDIO AND VIDEO DOOR ENTRY SISTEM OF MAXIMUM PERFORMANCE AND GREAT CAPACITIES, OFFERING TOTAL PRIVACY DURING THE CONVERSATIONS.



It is a simplified installation system by MDS BUS. It allows to interconnect 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 coaxial cable.

#### MDS CLASSIFICATION SYSTEMS

The MDS system can be divided into 2 main groups: - MDS DIRECT/CITY.

- MDS DIRECT/CI

#### COMBINATION WITH OTHER SYSTEMS

The MDS system can be combined with both 4+N and VDS indoor terminals. Because of that, the MDS system is mainly used to expand the capacities of a VDS system. With the MDS/VDS decoder (ref. 2409), you can get maximum advantage of each system and wiring simplicity. For full details, see MDS/VDS section.



### MDS DIRECT/CITY

It does not require Central Unit (ref. 2405) because both outdoor panels and guard unit are directly connected to the MDS bus. It allows only one guard unit (ref. 2532) per installation. It is optimal as a VDS complement for those cases which require:

Longer distances
Greater number of outdoor panels
Greater number of apartments
Urbanisations with general entrances (MDS) and interior blocks (VDS)
Intercommunication between apartments through the guard unit (only with 4+N indoor terminals)
Radio communication from 1/W 4+N audio panels to a guard unit (MDS DIRECT allows to install up to 999 1 way 4+N audio panels
connected to the bus through the panels decoders ref. 2436).
Intercommunication in the apartment itself (only with 4+N Palace indoor terminals)

The capacities of this system can vary slightly depending on the panel type (push buttons or keypad without display).

#### MDS CITY PANEL

Push buttons panels to access interior blocks (they cannot be installed as general entrances). It can be combined with MDS DIRECT in the general entrances.

#### Capacity:

- INTERIOR BLOCK:
  - 99 apartments and 9 accesses.

#### - SINGLE BLOCK:

- 99 apartments, 5 accesses and 1 guard unit.
- 99 apartments and 9 accesses.



#### MDS DIRECT PANEL

The panels include KEYPAD (without display) that serves to call the apartments and dial a code to opening the door (1 common code for all the users). It is recommended to add a DIRECTORY panel to show the list of residents.

#### Capacity:

#### - CONDOMINIUM or URBANISATION:

- General entrance: 9.999 apartments, 5 accesses and 1 guard unit.

- Interior block: 99 apartments and 9 accesses per block (up to 99 blocks).

#### - SINGLE BLOCK:

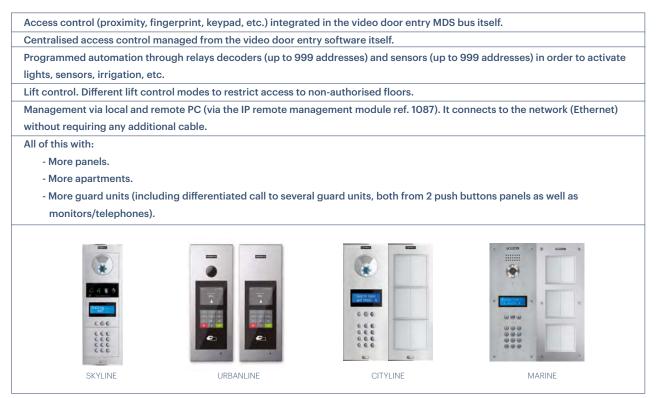
- 99 apartments, 5 accesses and 1 guard unit.

- 99 apartments and 9 accesses.



#### MDS DIGITAL

It requires one or several Central Units (ref. 2405) to connect outdoor panels, guard units and access control readers to the MDS bus (Outdoor panels use to include keypad + display), MDS DIGITAL will be used whenever MDS DIRECT/CITY is not enough, because it offers many other functionalities, allowing the complete management of big condominiums.





# TECHNOLOGY MDS

# 1. OUTDOOR PANEL



#### SKYLINE PANEL

SKYLINE manufacturing materials include anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate transparent elements and stainless steel inner grids.

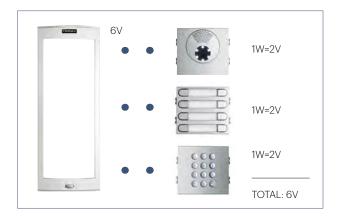
For contemporary installations that require multiple integration systems: information, communication and access control.

Includes a **COLOUR CAMERA** and additional night vision lighting with 6 LEDS.

Its versatility makes it the only panel able to fulfil any requirements which may arise in any residential, industrial or service sector project. Its modular design and versatility provide **TOTAL FREEDOM** to create numerous combinations.



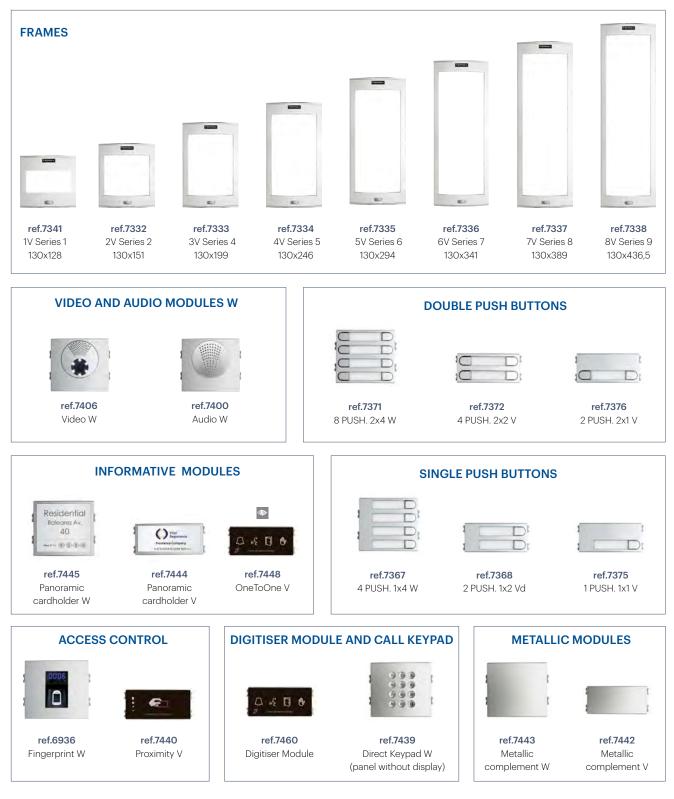
SKYLINE consists of **8 DIFFERENT-SIZED FRAMES** where different modules can easily be fitted. Modules come in 2 sizes, designated V and W. **W is twice the size of V.** 





The 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.

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



If the configuration calls for more than one panel, a connection cable ref.2541 between them is needed (1 cable per additional panel). They can be joined laterally within the same series by means of a joining bolts set (ref.8829). Select the corresponding flush box. If any additional accessory is required, see the CITYLINE/SKYLINE accessories table on page 82.



# TECHNOLOGY MDS

# 1. OUTDOOR PANEL



#### CITYLINE PANEL

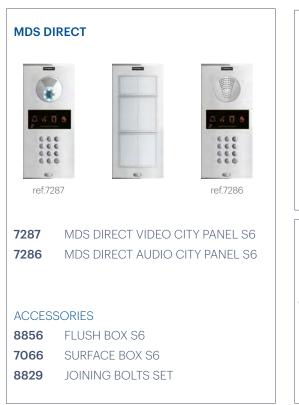
CITYLINE is a monoblock concept panel. It is characterised by its curved profile and distinctive push buttons.

There are 9 different panel dimensions called "SERIES", all with the same width but different height and push button capacities.

It is manufactured in a highly weather resistant anodised aluminium profile (IP43 IK7). The push buttons and displays are chromed zamak, the amplifier frontal in aluminium and the interior is protected by a stainless steel grid.

The watertight push buttons are designed and tested in the most demanding conditions to achieve great durability and reliability.

Includes a wide angle  $\ensuremath{\textbf{COLOUR}}$  CAMERA and additional night vision lighting with 6 LEDS.



#### **MDS CITY**

In order to mount a Cityline MDS CITY panel, it is required: - The corresponding 4+N Cityline panel (with COMPLETE amplifier, see page 114) that has a viewer to place the MDS digitiser.

- 7460 MDS SKYLINE V digitiser
- Call extension packs ref. 2008 (8 apart.) or ref.2441 (16 apart.).

NOTE: For the programming, implementation and maintenance of an installation with more than 1 MDS CITY panel, a DIRECT keypad ref.7439 will be necessary.



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#### 2532 CITYMAX GUARD UNIT MDS DIRECT/CITY

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



#### 2443 MDS DIRECT/CITY 1 ACCESS

SWITCHER One is required per additional video panel.



# TECHNOLOGY MDS

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

### MDS DIGITAL



MDS Digital SKYLINE



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



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



ref.7482

ref.7481

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

#### SKYLINE

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.

#### CITYLINE

7297	MDS COLOUR DIGITAL VIDEO CITY PANEL S7

7301 MDS DIGITAL AUDIO CITY PANEL S7

#### SKYLINE AND CITYLINE ACCESSORIES

8857	FLUSH BOX S7
7067	SURFACE BOX S7
8257	DECORATIVE FRAME S7
8829	JOINING BOLTS SET
8406	CITY SINGLE HOOD S7

8414 CITY DOUBLE HOOD S7

#### MARINE

- 5470 MDS DIGITAL VIDEO PANEL ST3
- 5467 MDS DIGITAL AUDIO PANEL ST3
- 5471 MARINE ST3 DIRECTORY PANEL

#### ACCESSORIES

- **4643** MARINE FLUSH BOX ST3
- 4647 MARINE ST3 SURFACE BOX
- 2289 MARINE JOINING BOLTS SET FOR FLUSH BOX
- 4703 MARINE ST3 HOOD

#### URBANLINE

- **7482** URBANLINE VIDEO PANEL S7
- 7481 URBANLINE AUDIO PANEL S7

#### ACCESSORIES

8857 FLUSH BOX S7

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

101

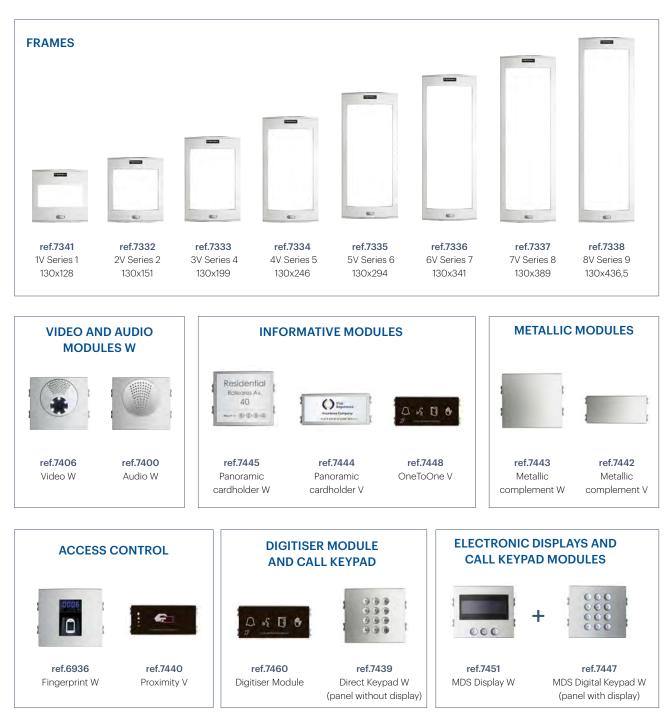
MDS



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

MDS DIGITAL

TECHNOLOGY MDS



#### **SKYLINE PANEL ACCESSORIES**

If the configuration calls for more than one panel, a connection cable ref.2541 between them is needed (1 cable for each additional panel). The flush boxes can be joined laterally within the same SERIES by means of a joining bolts set (ref.8829). Select the corresponding flush box. If any additional accessory is required, consult CITYLINE/SKYLINE accessories table on page 82.

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



# 1. OUTDOOR PANEL



#### **CITYLINE** PANEL

CITYLINE is a monoblock concept panel. It is characterised by its curved profile and distinctive push buttons.

There are 9 different panel dimensions called "SERIES", all with the same width but different height and push button capacities.

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 watertight designed and tested in the most demanding conditions to achieve great durability and reliability.

**COLOUR CAMERA** as standard. It includes LEDS for low lighting situations.

#### PUSH BUTTON CITYLINE PANELS

By means of the panels decoders (ref.2436), it is possible to call the General Concierge Units from restricted areas (swimming pool, gym, garages, social areas, etc.) or from inside the lifts.

SERIES 1 // Panel: 130x128 Flush box (ref.8851): 115x114x45



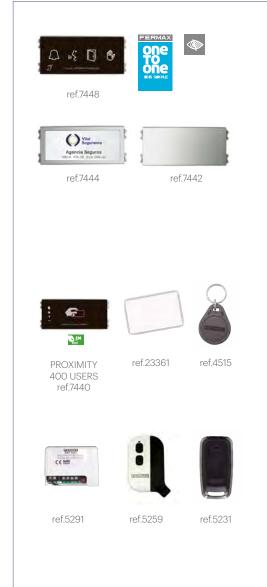
#### **DIGITAL CITYLINE PANEL**

DIGITAL panels include a KEYPAD and 16-character LCD x 2 rows DISPLAY. The keypad incorporates an access control function (350 codes).

7299	VDS DIGITAL VIDEO CITY PANEL S7
7303	VDS DIGITAL AUDIO CITY PANEL S7
8857	FLUSH BOX S7

Panel: 130x341 (S7) Flush box: 115x328x45 (S7) MDS





#### INFORMATIVE MODULES AND COMPLEMENTS

#### 7448 ONE-TO-ONE MODULE V

Device that gives information on how the door entry panel is operating by means of illuminated pictograms: Calling, in conversation, door open or busy channel. It facilitates visual information for people with hearing impairment.

7444 PANORAMIC CARDHOLDER V PANORAMIC CARDHOLDER V

Informative cardholder with lighting to personalise the building. It indicates the address or use as a resident and door codes directory needed in codified digital panels.

#### 7442 SKYLINE METALLIC COMPLEMENT V

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

#### ACCCESS CONTROL MODULES

7463 DESFIRE SKYLINE PROXIMITY READER V

7440 SKYLINE PROXIMITY READER V

It allows to open the door when approaching a proximity card or keyring. It manages up to 400 identifiers in Stand-alone mode. It allows a programming keyboard (ref. 2306) to delete lost identifiers. Power supply 12Vac/cc. It allows door opening when approaching a proximity card to the module.

- **4531** DESFIRE PROXIMITY CARD EV2 2K
- **4532** DESFIRE PROXIMITY KEYRING EV2 2K
- 23361 EM FERMAX PROXIMITY CARD
- 4515 PROXIMITY KEYRING 🎦
- **2306** PRIVATE PROGRAMMING KEYPAD It allows to delete lost identifiers.

5291 RF BASIC-MINI RECEIVER

To be installed in the panels interior. Remote opening from a remote control with high secured code.

- 5259 RF KEYSINGLE-MINI EMITTER
- 5231 RF KEYSINGLE-PLUS EMITTER 2 PUSH

#### **CITYLINE/SKYLINE ACCESSORIES**

				стала					
	FLUSH BOX	SURFACE	HOOD		MODULAR	CITY Frame		ANGULAR	
		BOX BOX	SIMPLE	DOUBLE	Frame*	SIMPLE	DOUBLE	COMPLEMENT	
S1	<b>ref.8851</b> 115x114x45	<b>ref.7061</b> 130x128x33	<b>ref.8400</b> 135x130	-	<b>ref.9191</b> 211x210	<b>ref.8251</b> 225x310	-	ref.8378	
S7	<b>ref.8857</b> 115x328x45	<b>ref.7067</b> 130x341x33	<b>ref.8406</b> 135x345	<b>ref.8414</b> 265x345	<b>ref.9197</b> 211x424	<b>ref.8257</b> 225x450	<b>ref.8430</b> 355x460	ref.8384	
S8	<b>ref.8858</b> 115x375x45	<b>ref.7068</b> 130x389x33	<b>ref.8407</b> 135x393	<b>ref.8415</b> 265x393	<b>ref.9198</b> 211x471	<b>ref.8258</b> 225x450	<b>ref.8431</b> 355x460	ref.8385	
S9	<b>ref.8982</b> 115x420,5x45	<b>ref.7069</b> 130x436,5x33	<b>ref.8480</b> 135x440,5	<b>ref.8483</b> 265x440,5	<b>ref.9199</b> 211x519	<b>ref.8259</b> 225x495	<b>ref.8474</b> 355x500	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.

# 1. OUTDOOR PANEL



#### **URBANLINE** PANEL

Fermax MDS DIGITAL technology. User-friendly. Panel that integrates 2 x capacitive touchscreens (size 3,5", format 4:3): - Upper screen: message display. - Lower screen: keypad. EM Proximity reader included and empty slot for a HID third party reader. Wide angle camera 1MP (SXGA, 1312X740; only in the video panel ref. 7482) H: 130°, V: 80°. Leds for lighting dark scenes. Presence detector to turn on the screens. Flush mounted (box size S7: 115 x 328 x 45 mm). Hidden fixing system. Invisible screws. Access code by keypad. Date and time display on the upper screen. Users search by Agenda. Door opening voice message.

7481 URBANLINE AUDIO PANEL S77482 URBANLINE VIDEO PANEL S78857 FLUSH BOX S7

#### FUNCTIONS



The outdoor panel has a Local Menu that is managed by the outdoor panel itself. This local menu includes an option (8) to configure the MDS Central Unit Menu. The features included in the Local Menu are as follows:

1. Panel Configuration. To configure the outdoor panel address (00-31, default 00) and the Multi-stair option (default value 'off').

2. Door opening time. To adjust the door opening time (00-99 s.). By default 03 s.

3. Codes. In this submenu, the access code to the local menu can be modified or a proximity master card can be added in master mode.

4. Screen adjustments. To modify the screens' brightness (from 1 to 9, default 5) and the type of activation (1-Touch or Sensor (by default) or 2-Always ON).

5. Language. To configure the language in the Local Menu of the panel (14 languages, default Spanish). This language can be different from the one configured in the MDS Central Unit.

6. Restricted calls. This submenu is used to add and delete users who have allowed permission to receive calls from the outdoor panel. This option must be previously enabled (Option deactivated by default). In this submenu it is also possible to define the number of digits stored for each user in the allowed calls list (by default 4 digits).

7. Reader. This submenu is used to enable/disable the EM integrated proximity reader that is in the panel (by default Activated).

8. Central Unit ProgrammiAng. This option gives access to the MDS Central Unit Menu with all the standard MDS Digital menus.

9. Guest code. Enables/Disables the guest code option. If Option-9-Guest code is disabled, the connector CN5 works as a Wiegand-26 data input. If Option-9-Guest code is enabled (default option), the connector CN5 works as a Wiegand-26 data output to interact with a third party controller (the controller must have its own power supply unit).

10. Alpha numeric call. Enables/Disables the alphanumeric call (disabled by default) and allows selection of alphanumeric calls range (from A to H).

11. Message configuration. This submenu allows to edit and modify the messages received from the MDS central unit in order to customize the text messages to be shown on the display.

12. Reset. In this submenu it is possible to reset the local parameters or reset the restricted calls users list.



# TECHNOLOGY MDS

# 1. OUTDOOR PANEL



#### MARINE PANEL

MARINE is the FERMAX vandal-proof door entry panel made in AISI 316L stainless steel (2,5mm-thick). IP65 IK09.

Straight lines that highlight the quality of the steel. The Marine panel resistance to even the most corrosive, humid or extreme climate conditions makes it the most suitable and designed option for vandal-resistant installations.

It incorporates **voice synthesizer**: "The door is open. Please, close the door behind you" is emitted while the door is opening. Available in 32 languages.

Includes a **COLOUR CAMERA** and additional night vision lighting with 6 LEDS.

### INFORMATIVE MODULES AND COMPLEMENTS

By means of the panels decoders (ref.2436), it is possible to call the General Concierge Units from restricted areas (swimming pool, gym, garages, social areas, etc.) or from inside the lifts.

Both FLUSH or SURFACE boxes must be requested separately. Surface boxes include hood.



# DIGITAL MARINE PANEL



- 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.
- ${\boldsymbol{\cdot}}$  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 is 1.020 codes in MDS DIGITAL with Central Unit ref. 2405.
- 5468 VDS DIGITAL VIDEO MARINE PANEL ST3
- 5471 MARINE ST3 DIRECTORY PANEL
- **4643** MARINE FLUSH BOX ST3
- 4647 MARINE ST3 SURFACE BOX
- 4703 MARINE ST3 HOOD
- **2289** MARINE JOINING BOLTS SET FOR FLUSH BOX

#### SERIES ST3 Panel: 150x360 Flush box (ref.4643): 130x340x55

SURFACE BOX	ref.4647	HOOD	rof 1700	
(with hood)	154x364x96	HOOD	ref.4703	

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





#### MARINE ELITE PANEL

FERMAX has a laser-cut machining line for stainless steel panels. This process allows us to offer complete flexibility when it comes to making the Marine panel required, with optimal delivery time.



#### 31725 MDS MARINE ELITE PANEL

- The following variations may be ordered:
- $\cdot$  Panel with special formats and dimensions.
- · Integration of access control modules and special combinations.
- Logotype laser marking. The engraving of panels is only available on the panels with stainless steel colour. Other colours cannot be engraved.
- · Residence/Building number and messages integration.
- · Push buttons without card slot and free layout.
- · Backlight option.

4579	SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL
4580	ESPECIAL MARINE FLUSH BOX
4581	ESPECIAL MARINE SURFACE BOX (WITH HOOD)

The MARINE Elite panels are available in several colours: indicate the desired RAL when ordering your panel.





Check for availability in other colours.

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You can find the SPECIAL MARINE application form at: www.fermax.com/intl/en/pro/online-support/special-panels.html



TECHNOLOGY MDS

# 2. ACCESS CONTROL READERS

Access control readers are considered by the Central Unit just as 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.



## 3. GUARD UNIT



#### 2537 MDS DIGITAL GUARD UNIT

Desktop support included. Surface installation. It includes a 4" graphic display that informs of all the events and actions of the installation: origin of call, type of 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 centre. The guard unit can communicate with any access or home, and can establish communication between any 2 points of the installation (exclusively MDS installation).

## 4. CENTRAL UNIT





ref.2405

ref.2379

Essential at installations with MDS Digital panels.

#### 2405 1 ACCESS MDS CENTRAL UNIT

It manages up to 9.999 apartments and 1.020 access control users.

- In single 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).

#### 2379 2 ACCESSES SWITCHER

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

#### PC CONNECTION ACCESSORIES

#### 24661 USB ADAPTOR TO RS485

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

#### 2466 PC DECODER PROGRAMMING MODULE

It enables Central Unit programming by PC (serial port).

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

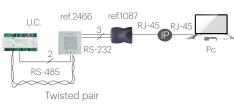
It allows Central Unit programming in FXL network. DIN. RS-232 connection to PC. Allows for the connection of 1 modem for remote management by telephone. Maximum distance to Central Unit: 1.200m.

#### **1087** IP REMOTE MANAGEMENT MODULE

It is 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.

RS-485 Twisted pair Pc ref.2466 Cable included RS-232 RS-485 Рс Cable included (1m) 230Vac 2 U.C. Cable included RŚ-232 RS-485 Twisted pair ref.2466 ref.1087 ЦС RJ-45 R I-45

ref.24661



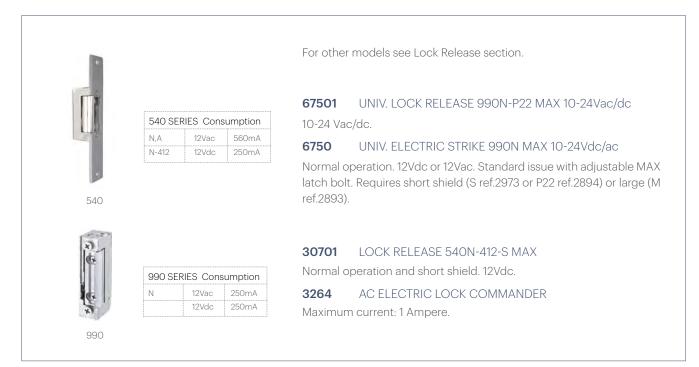


## TECHNOLOGY MDS

## 5. POWER SUPPLY



## 6. DOOR LOCK RELEASE



## 7. ACCESSORIES



ref.2339



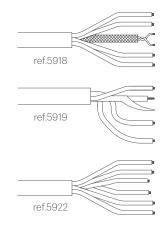
ref.2424



ref.2436



ref.2419



#### 2339 MDS REPEATER

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

#### 4110 VIDEO SIGNAL 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.

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
2436	4-PANELS DECODER

1 unit per 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
24661	USB ADAPTOR TO RS485

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

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 (100M)

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

**5922** DECODER-TELEPHONE CONNECTION CABLE (1M) 6 wires of 0,5mm<sup>2</sup>.

## 8. MONITORS AND TELEPHONES

4+N telephones. Check out the Analogue section page 120. VDS monitors and telephones. Check out the VDS section page 88.







Solutions for buildings

4+N wires





## TECHNOLOGY **4+N**

THE ANALOGUE SYSTEM USES 4 COMMON WIRES FOR THE ENTIRE INSTALLATION PLUS 1 CALL (OR CALL RETURN) WIRE PER HOME (4+N). N IS THE NUMBER OF HOMES.

- It is recommended in small/medium-sized buildings, 7 accesses maximum.
- The AMPLIFIER includes volume potentiometer, both outdoor panel-monitor and monitor-outdoor panel, to adjust the optimal volume.



## COMPOSITION



Available two models of amplifiers: A) Building or Complete Amplifier.

B) Kit or Basic Amplifier.

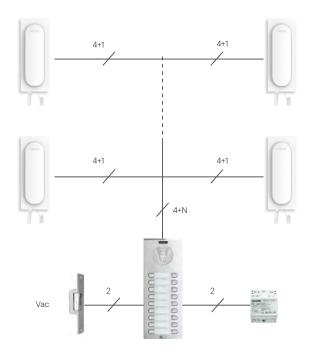
The **Complete model**, in addition to the functions in the Basic model, includes:

- 1) Possibility of selecting the type of call (electronic or buzzer).
- 2) Possibility of selecting type of installation: FERMAX (parted grounds) or Universal (common ground).
- 3) Voice synthesiser with the message 'The door is open' up to 32 languages.
- 4) Connector for outdoor panels in MDS system.
- 5) Second call tone (Cp2).
- 6) Possibility to connect the One-to-One module (ref.7448) for people with hearing impairment. The One-to-One module with induction loop (ref.7452) is not compatible with the 4+N system.
- 7) In CITYLINE panels, the cardholder lighting is always activated as standard. In CLASSIC panels, the Complete or Building model, the cardholder is as default without lighting, but the amplifier has a push button which illuminates the cardholders while the button is pressed.

## SYSTEM FEATURES

Wiring	4+N
Number max. of homes	Unlimited. As much as call wires
Number max. of outdoor panels	7
Central Unit	No
Maximum distance	Limited. Depends on cable type
Communication privacy outdoor panel-home	No
Indoor terminal programming	Programming of indoor terminal not required
Voice message in amplifier	Only in building amplifiers
Colour camera	No. Only audio.

## AUDIO DIAGRAM



4+N



# TECHNOLOGY **4+N**

## 1. OUTDOOR PANEL



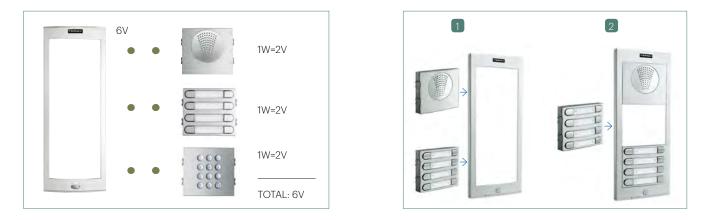
#### SKYLINE PANEL

Outdoor panel for contemporary installations that require multiple integration systems: information, communication and access control.

SKYLINE manufacturing materials include anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate transparent elements and stainless steel inner grids.

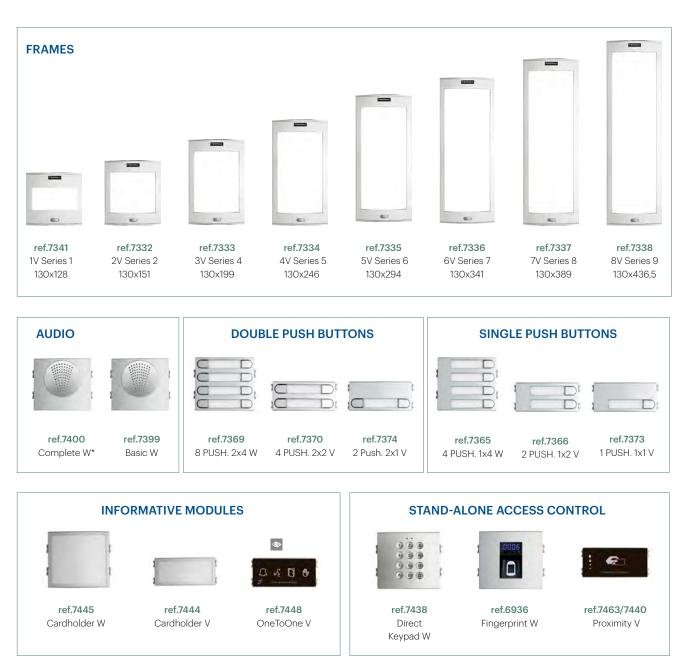
Its versatility makes it the only panel able to fulfil any requirements which may arise in any residential, industrial or service sector project. Its modular design and versatility provide **TOTAL FREEDOM** to create numerous combinations.

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 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.

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





#### SKYLINE PANEL ACCESSORIES

See accessories page 120.

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

Note: Read more about the Complete amplifier functions on the page 114.



## TECHNOLOGY 4+N 4+N WIRES

## 1. OUTDOOR PANEL



#### **CITYLINE** PANEL

CITYLINE is a monoblock concept panel. It is characterised by its curved profile and distinctive push buttons.

There are 9 different panel dimensions called "SERIES", all with the same width but different height and push button capacities.

It is manufactured in a highly weather resistant anodised aluminium profile (IP43 IK7). The push buttons and displays are chromed zamak, the amplifier frontal in aluminium and the interior is protected by a stainless steel grid.

The watertight push buttons are designed and tested in the most demanding conditions to achieve great durability and reliability.

### PUSH BUTTON CITYLINE PANELS

Select the panel according to the number of apartments. In case that several flush boxes of the same size are combined, it will be necessary to use the Joining Bolts Set (ref.8829).

#### SERIES 1 // Panel: 130x128

Flush box (ref.8851): 115x114x45





ref.70701 1 Push.

ref.70001 2 Push.

SERIES 6 // Panel: 130x294

Flush box (ref.8856): 115x280x45

0000000 0000000	
<b>ref.70221</b> 14 Push.	<b>ref.70231</b> 16 Push.

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

#### SERIES 4 // Panel: 130x199 Flush box (ref.8854): 115x185x45



ref.70731

3 Push.



SERIES 7 // Panel: 130x341

Flush box (ref.8857): 115x328x45



ref.70741

4 Push.





ref.70031

6 Push.

ref.70041



#### D D



12 Push.

ref.70121 10 Push.

SERIES 5 // Panel: 130x246 Flush box (ref.8855): 115x233x45

## SERIES 8 // Panel: 130x389

Flush box ( (ref.8858): 115x375x45



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	1
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0	D



ref.70321 18 Push.

D ref.70331 20 Push.

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#### CITYLINE CLASSIC PANEL

Cityline Classic is the range of audio door entry panels for small buildings. It stands out for its design, versatility and curvedconvex profile. There are 9 continuous profile series, all of them the same width but with different heights and button capacities.

- 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.
- 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 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.

NOTE: These panels include the Complete or Building amplifier. (See page 114 to find out the differences compared to the Basic or Kit amplifier).

#### SERIES 1 // Panel: 130x128 Flush box (ref.8851): 115x114x45





ref.8501 2 Push.

SERIES 6 // Panel: 130x294 Flush box (ref.8856): 115x280x45





ref.8660 14 Push.

ref.8661 16 Push.



SERIES 7 // Panel: 130x341

Flush box (ref.8857): 115x328x45

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ref.8700

18 Push.

ref.8592

3 Puls.

SERIES 4 // Panel: 130x199

Flush box (ref.8854): 115x185x45



ref.8593

4 Puls.



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ref.8701

20 Push.

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ref.8590 6 Puls.



8 Puls.



Flush box. (ref.8855): 115x233x45

SERIES 5 // Panel: 130x246





ref.8620 10 Push

ref.8621 12 Push.

00000000

DD

Ð

SERIES 8 // Panel: 130x389 Flush box (ref.8858): 115x375x45



22 Push.

ref.8741 24 Push.

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

119

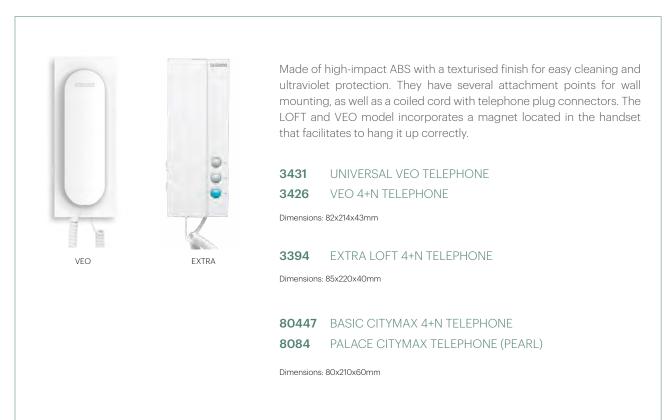
### SKYLINE/CITYLINE/CITYLINE CLASSIC PANEL ACCESSORIES

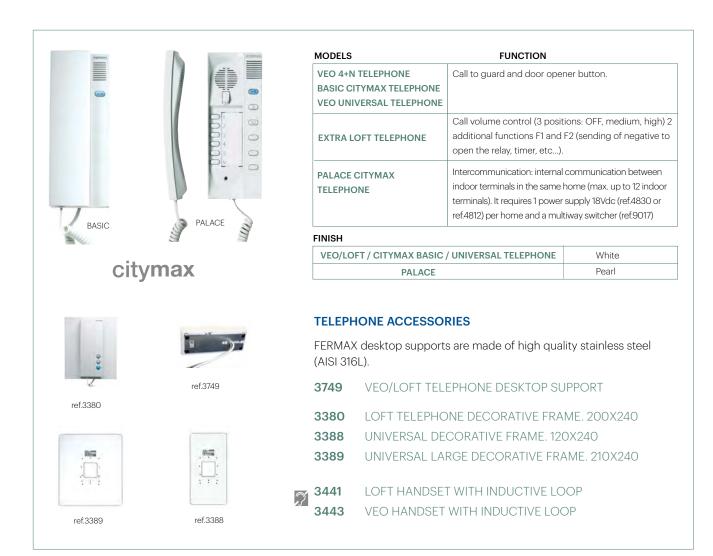
If several flush-mount panels from the same series are combined, they can be joined laterally with a joining bolts set (ref.8829). Select the flush box corresponding to the series of the panel.

	S1	S2	S3	S4	S5	S6	S7	S8	S9
Flush box	<b>ref.8851</b>	<b>ref.8852</b>	<b>ref.8853</b>	<b>ref.8854</b>	<b>ref.8855</b>	<b>ref.8856</b>	<b>ref.8857</b>	<b>ref.8858</b>	<b>ref.8982</b>
	115x114x45	115x138x45	115x162x45	115x185x45	115x233x45	115x280x45	115x328x45	115x375x45	115x420,5x45
Classic surface box	<b>ref.8951</b> 130x128x33	<b>ref.8952</b> 130x151x33	<b>ref.8953</b> 130x175x33	<b>ref.8954</b> 130x199x33	<b>ref.8955</b> 130x246x33	<b>ref.8956</b> 130x294x33	<b>ref.8957</b> 130x341x33	<b>ref.8958</b> 130x389x33	<b>ref.8984</b> 130x436,5x33
City/Sky surface box	<b>ref.7061</b> 130x128x33	<b>ref.7062</b> 130x151x33	<b>ref.7063</b> 130x175x33	<b>ref.7064</b> 130x199x33	<b>ref.7065</b> 130x246x33	<b>ref.7066</b> 130x294x33	<b>ref.7067</b> 130x341x33	<b>ref.7068</b> 130x389x33	<b>ref.7069</b> 130x436,5x33
Simple	<b>ref.8400</b>	<b>ref.8401</b>	<b>ref.8402</b>	<b>ref.8403</b>	<b>ref.8404</b>	<b>ref.8405</b>	<b>ref.8406</b>	<b>ref.8407</b>	<b>ref.8480</b>
hood	135x130	135x155	135x177,5	135x203	135x250	135x300	135x345	135x393	135x440,5
Simple	<b>ref.8251</b>	<b>ref.8252</b>	<b>ref.8253</b>	<b>ref.8254</b>	<b>ref.8255</b>	<b>ref.8256</b>	<b>ref.8257</b>	<b>ref.8258</b>	<b>ref.8259</b>
frame	225x310	225x310	225x375	225x375	225x375	225x450	225x450	225x450	225x495

## 2. TELEPHONES

FERMA>





## 3. DISTRIBUTORS/SWITCHERS

#### BUILDING WITH 2 ACCESSES

- 1 Power supply/distributor (ref.88231)
- 1 Audio switcher (ref.8811)

#### 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.



ref.8811

#### 88231 POWER SUPPLY/VOLTAGE DISTRIBUTOR

It is required 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 per audio door-entry access. Up to 7 accesses.

#### 8819 1/W AUDIO AUTOMATIC SWITCHER

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

#### 9017 BUS MULTIWAY SWITCHER

It is necessary when the intercommunication between telephones in the same home is required. A switcher ref.9017 is needed per home as well as a power supply of 18Vdc.



## TECHNOLOGY **4+N**

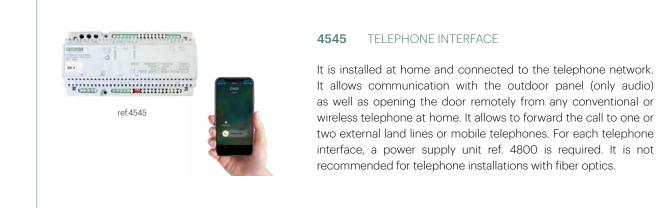
## 4. POWER SUPPLY



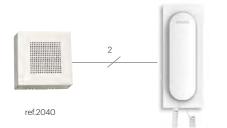
## 5. DOOR LOCK RELEASES



## 6. ACCESSORIES



#### CALL ACCESSORIES



GERINARI -

ref.8053

ref.2340

## 2040 ELECTRONIC CALL EXTENSION BELL

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.

#### 2068 BUZZER EXTENSION CALL

For 4+N installations by call buzzer.

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

It allows to activate high-power devices or indicators when a call is received: bells, sirens, light bulbs, etc. It is possible to connect 1 per telephone.

#### 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).

#### **ADDITIONAL FUNCTIONS**



ref.2013



ref.29001

#### 2013 ADDITIONAL FUNCTIONS RELAY

It allows for the remote activation of electrical devices by an additional button on the telephone: switch on the stair light, open the garage, open a 2nd door, etc. Activation by 12Vdc, 12Vac or 18Vdc.

#### 88101 DOUBLE CONTACT RELAY 18Vdc

#### 29001 TIMER

It allows 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.



# LOCK RELEASE

Solutions for accesses

Flush mounted or Surface

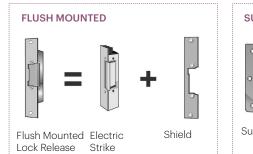


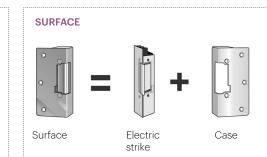




## **CHARACTERISTICS**

An electric **DOOR LOCK RELEASE** basically consists of an electrical strike and a shield or case, depending on the installation system (flush mounted or surface).





### **OPERATION MODES**



Ν

Allows door opening while the lock is powered.

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

#### **AUTOMATIC OPERATION A**

#### Ab (Sliding automatic) and Aa (Invisible automatic)

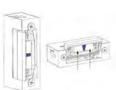
А

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



#### A Automatic operation.

- 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.

12 Vac activation Aa Aa-412 12 Vdc activation

#### **INVERTED OPERATION N-500**

N-512

N-524

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

12 Vdc activation

24 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.

ND Normal operation with release. AD Automatic operation with release.



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

Allows monitoring of door status (open/closed). Suitable for security systems.



#### - Adjustable latch bolt-MAX

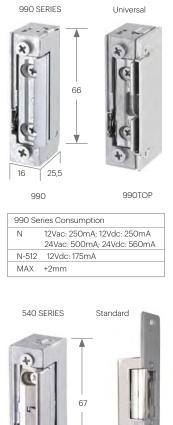
Allows a perfect fit between latch and bolt in the lock, with a 4mm margin. To order a MAX lock release, please add an 8 to the end of the reference of the compatible lock.

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



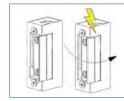
## 1. FLUSH MOUNTED DOOR LOCK RELEASE

## NORMAL OPERATION N





540 Series	Consumption			
N,A	560mA			
N-412 N-512	250mA 200mA	300 Series	Consumptio	n
A-424	180mA	N-412	180mA	
MAX +3	mm	MAX	+4mm	



#### Allows door opening while the lock is powered. N 12 Vac activation N-412 12 Vdc activation

24 Vdc activation

N-424

#### UNIVERSAL 10-24Vac/dc

67501	UNIV. LOCK RELEASE 990N-P22 MAX (short shield P22)
67511	UNIV. LOCK RELEASE 990ND-P22 MAX (short shield P22)
6750	ELECTRIC STRIKE 990N MAX
1813	ELECTRIC STRIKE 990ND MAX
1814	ELECTRIC STRIKE 990ND TOPMAX
67500	ELECTRIC STRIKE 990N CTC MAX
1817	UNIV. LOCK RELEASE 990N-L22 MAX (large shield L22)

#### STANDARD 12Vac

30711	LOCK RELEASE 540N-S MAX (short shield S)	
-------	--	--

- **28341** LOCK RELEASE 540ND-S MAX (short shield S)
- **1777** ELECTRIC STRIKE 540N MAX
- 1799 ELECTRIC STRIKE 540ND MAX

#### STANDARD 12Vdc

30701	LOCK RELEASE 540N-412-S MAX (short shield S)
30591	LOCK RELEASE 540ND-412-S MAX (short shield S)
1782	ELECTRIC STRIKE 540ND-412 MAX

#### BASIC

29588 LOCK RELEASE 300N-412-S MAX (short shield S)

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.

#### **INVERTED OPERATION N-500**



#### UNIVERSAL 12Vdc

6780	ELECTRIC STRIKE 990N-512 MAX
67800	ELECTRIC STRIKE 990N-512 CTC MAX

#### STANDARD 12Vdc

64801	LOCK RELEASE 540N-512-S MAX (short shield S)
1794	ELECTRIC STRIKE 540N-512 MAX

NOTE: D-Unlocking lever, CTC-Built-in microswitch, MAX-Adjustable latch bolt, P22-Short shield 22mm wide, S-Short shield 25mm wide, L22-Large shield 22mm wide.



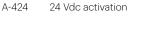
#### AUTOMATIC OPERATION A

#### 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. А 12 Vac activation A-412 12 Vdc activation





Ab Sliding automatic operation. Lets you slide the automatic function with the MAX latch setting. Ab 12 Vac activation 12 Vdc activation Ab-412



#### Aa Invisible automatic operation.

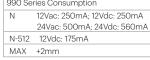
The automatic pin is suppressed to allow an easier fit to the mechanical lock. A very short electrical pulse is recommended.

FLUSH



#### 12 Vac activation 12 Vdc activation

## 990 SERIES Universal 66 25,5 16 990 990TOP 990 Series Consumption





#### UNIVERSAL 12-24 Vac/dc

67521	LOCK RELEASE 990A-P22 (short shield P22)
67524	LOCK RELEASE 990A-S MAX (short shield S)
1824	LOCK RELEASE 990Ab-P22 MAX (short shield P22)
1823	LOCK RELEASE 990Ab-L22 MAX (large shield L22)
67531	LOCK RELEASE 990AD-P22 MAX (short shield P22+unlock.lever)
67532	LOCK RELEASE 990AD-L22 MAX (large shield P22+unlock.lever)
6752	ELECTRIC STRIKE 990A MAX
6753	ELECTRIC STRIKE 990AD MAX (unlocking lever)

#### STANDARD 12 Vac

30691	LOCK RELEASE 540A-S MAX (short shield S)
28201	LOCK RELEASE 540AD-S MAX (short shield S+unlock.lever)
1821	LOCK RELEASE 540Ab-S MAX (short shield S)
28151	LOCK RELEASE 540Aa-S MAX (short shield S)
64551	LOCK RELEASE 540AbD-S MAX (short shield S+unlock.lever)
1812	ELECTRIC STRIKE 540Ab MAX
1780	ELECTRIC STRIKE 540Aa MAX
1811	ELECTRIC STRIKE 540AbD MAX (unlocking lever)
1781	ELECTRIC STRIKE 540AaD MAX (unlocking lever)
STANDA	ARD 12Vdc

#### 1820 LOCK RELEASE 540Ab-412-S MAX 1810 ELECTRIC STRIKE 540Ab-412 MAX 1728 ELECTRIC STRIKE 540Aa-412 MAX ELECTRIC STRIKE 540AaD-412 MAX (unlocking lever) 1727

NOTE: D-Unlocking lever, CTC-Built-in microswitch, MAX-Adjustable latch bolt, P22-Short shield 22mm wide, S-Short shield 25mm wide, L22-Large shield 22mm wide.



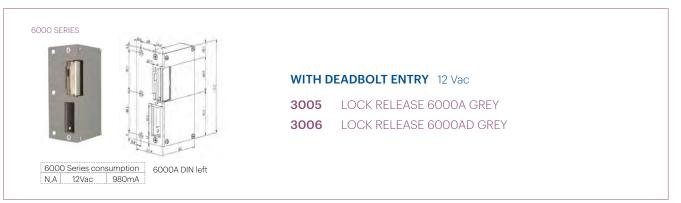


## 2. SURFACE DOOR LOCK RELEASE

### NORMAL OPERATION N

0 0		UT DEADBOLT ENTRY	
	2923	LOCK RELEASE N-200	
	2940	LOCK RELEASE N-200	
	2984	LOCK RELEASE 8000	
	3064	LOCK RELEASE PN (PA	
0 0	2879	ELECT. RIM LOCK 962-	DOU. KEY+PUSH BUTTON
ref.2923 ref.2940			
2000 Series consumption	WITH D	DEADBOLT ENTRY 12 Va	C
8000 SERIES (with chain) ref.2984	P SERIE	(anti-panic) <b>ref.3064</b>	962 SERIES ref.2879
8000 SERIES (with chain) ref.2984 Transformer Short chain section	P SERIE	(anti-panic) ref.3064	962 SERIES ref.2879

## AUTOMATIC OPERATION A

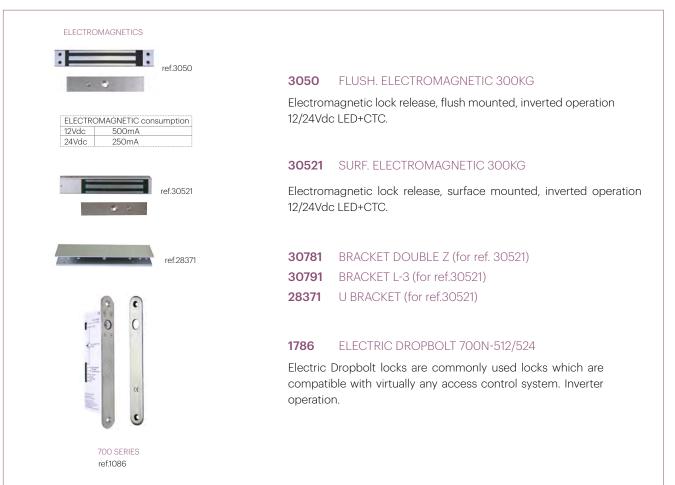




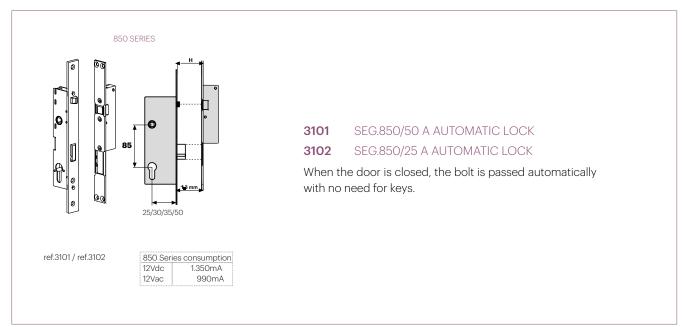


## 3. SPECIAL DOOR LOCK RELEASE

## **INVERTED OPERATION N-500**



### **AUTOMATIC OPERATION A. 12VAC**



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

### ACCESSORIES





#### FLUSH MOUNTED LOCK RELEASE

2973	S-TYPE GREY SHORT SHIELD
2893	M-TYPE GREY LARGE SHIELD
2894	P22-TYPE SHORT SHIELD
2892	L22-TYPE GREY SHIELD
2975	G-TYPE GREY LARGE SHIELD (36mm)

**2985** GE-TYPE GREY LARGE SHIELD (12mm)

#### SURFACE LOCK RELEASE (SHIELD)

#### FOR ALL TYPE OF LOCK RELEASE

2913	2C DOUBLE CONTACT (WHITE)
7776	2CN DOUBLE DOOR CONTACT (BLACK)
2922	3C TRIPLE DOOR CONTACT
3083	X1 FLEXIBLE CONDUIT (30cm)
4800	POWER SUPPLY DIN4 230VAC/12VAC-1,5A
4802	POWER SUPPLY DIN4 230VAC 12VAC/1A
4813	POWER SUPPLY DIN6 100-240VAC/12VDC-2A
1076	MC740 G2 MAGNETIC CONTACT

ref.2894

Shield L22

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ref.2892

1.30

Shield GE

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ref.2985

\_ 25

112 250

60

17



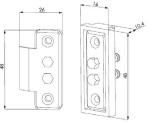
13

ref.2913

Contact 2CN



ref.7776





# ACCESS CONTROL

Solutions for restricted areas

Stand-alone and Centralised



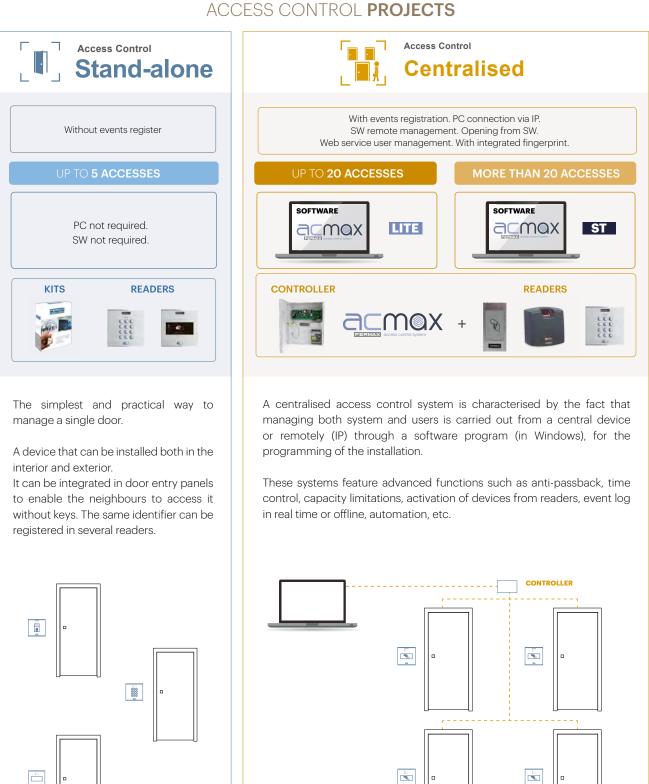


**ACCESS** CONTROL STAND-ALONE AND CENTRALISED

#### Designing an access control project has multiple solutions.

Fermax systems are very versatile and capable of adapting to multiple projects.

To choose the most optimal and efficient system we **recommend** the following selection guide.



## READERS

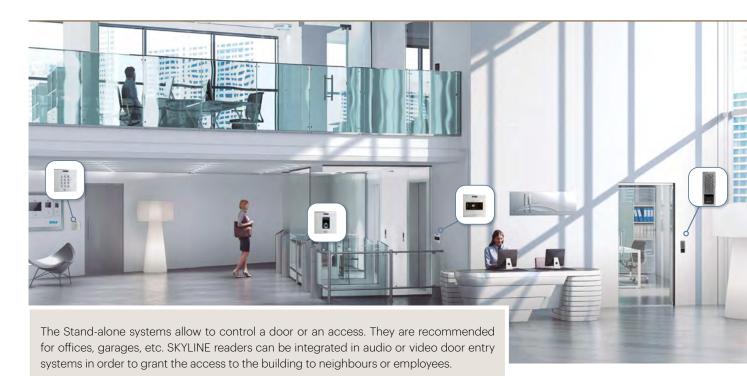


## **IDENTIFIERS**

EM 125 k	(Hz	MIFARE 13,5	6 MHZ	DESFIE EV2	13,56 MHZ	RF 868	3 MHz
æ		æ		æ		:	
Card	Keyring	Card	Keyring	Card	Keyring	Mini remote control	Plus remote control



## ACCESS CONTROL



## 1. KEYPAD (PIN)

### MEMOKEY KEYPAD



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



#### **RESISTANT MEMOKEY**

## 



ref.5293 Keypad dimensions: 55x147x20mm

#### 5238 RESISTANT MEMOKEY KIT

Surface installation. It includes keypad (ref.5293), power supply 12 Vac (ref.4802), 3 proximity cards (ref.52750) and 2 keyrings (ref.52740) MIFARE.

#### 5293 RESISTANT KEYPAD W/PROXIMITY

Capacity up to 600 users. Power supply 12Vac/dc. Programming from keyboard with master code and MASTER ADD and MASTER DELETE cards.

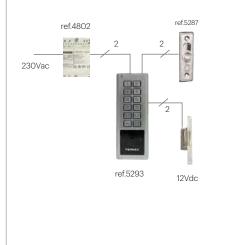
4802 POWER SUPPLY DIN4 230VAC/12VAC-1A
--

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

Power supply 12Vdc. Necessary when adding external controller ref. 5276.

#### 5276 MINI WG STAND-ALONE CONTROLLER 1 DOOR

For more than 600 users up to 1000 or to allow code cloning between controllers. Surface installation. Power supply 12Vdc (ref.4813) recommended. Controller dim.: 65x54x9mm



#### **IDENTIFIERS**

	52750	PROXIMITY CARD MIFARE FERMAX
<b>A</b> nnan	52740	PROXIMITY KEYRING FERMAX MIFARE
EM	23361	EM FERMAX PROXIMITY CARD
EM	2336	EM PROXIMITY CARD WITH MAGNETIC BAND
EM	4515	PROXIMITY KEYRING









Customisable card







**ACCESS** CONTROL

STAND-ALONE

## Maximum security with MIFARE DESFIRE



#### MORE SECURITY

DESFIRE technology has become the benchmark **technology in** security among identifiers and proximity readers. It is practically impossible to be copied.

The FERMAX DESFIRE readers are integrated in FERMAX Skyline, Cityline and Marine video door entry panels. They can also be installed as independent readers in communal areas or community premises.

FERMAX DESFIRE identifiers, such as proximity cards or keyrings, implement the **EV2** standard which, thanks to the **AES256** encryption, provides an exceptionally high level of protection. These identifiers have a **2K** memory and thus they can be used for other types of applications.

As an added value, it is possible to **increase security** with additional encryption by means of a card programmer, generating unique identifiers for specific installations (consult the technical department).





#### MORE VERSATILITY

The versatility of FERMAX readers enables a single reference to be used as either **a stand-alone or centralised reader**.

#### STAND-ALONE MODE

No need to connect to any controller, easy to install without software and up to 400 users. Up to 1.000 users with external controller ref.5276.

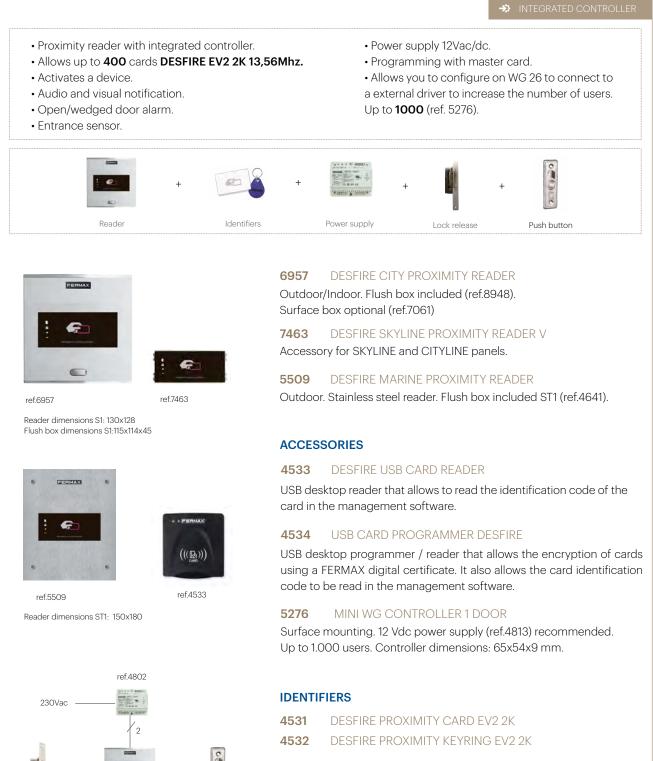
#### **CENTRALISED MODE**

Connected to a central controller (such as the FERMAX AC-MAX kit) with **advanced functions and management software**. It has Wiegand 26 output, one of the most common standards in centralised access control systems.

## 2. PROXIMITY (CARD)

## MIFARE DESFIRE PROXIMITY READER





ref.4531

2001279

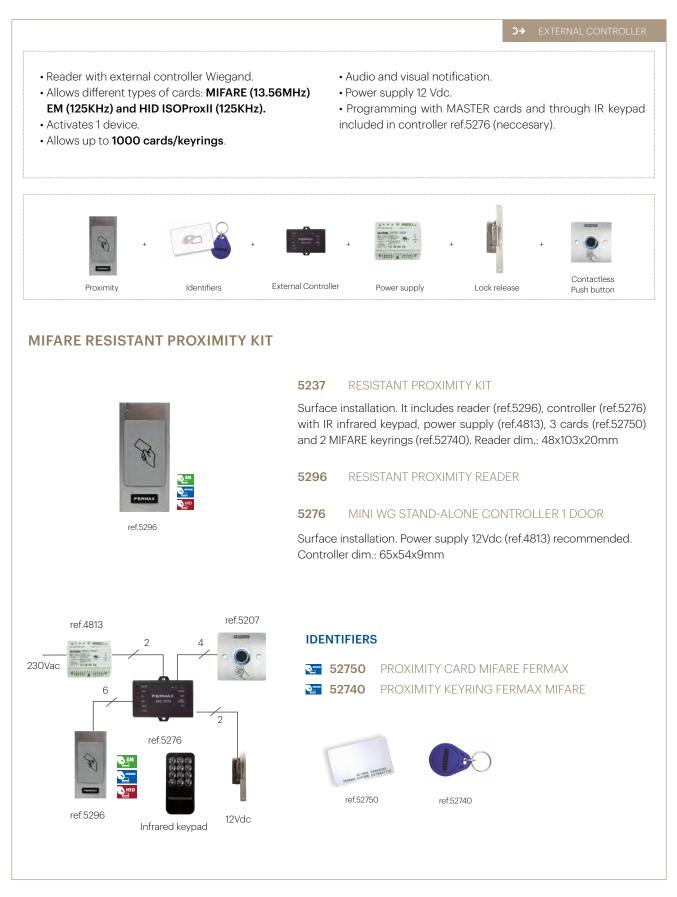


ref.4532



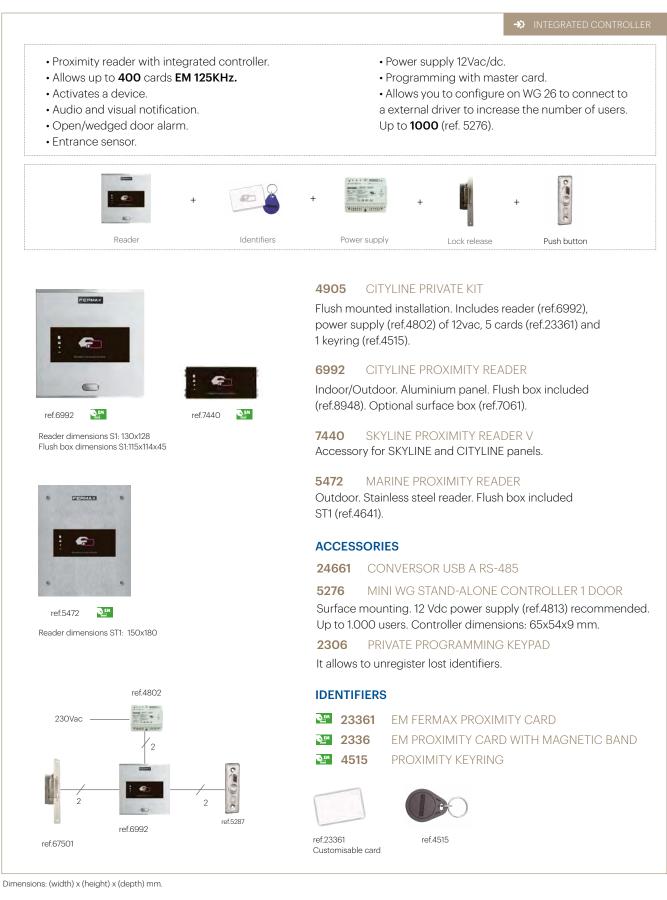
ACCESS CONTROL

### MIFARE CLASSIC PROXIMITY READER





#### **EM PRIVATE READER**



141



ACCESS CONTROL

## 3. FINGERPRINT (BIOMETRIC)

### **FINGERPRINT READER**

• Fingerprint reader with proximity EM (125KHz) and integrated controller. • Up to 4.500 users (1 fingerprint) 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, Fingerprint management can be performed in two ways: - Manual programming via IR keyboard included with the reader or via free SingularKey PC software available at www.fermax.com (device ref. 24661 required). • Up to 15 readers on network. Allows to manage up to 300 fingerprints/cards on network. NOTE: Manually registered fingerprints cannot be managed using the Singular key PC software. They will have to be registered again via PC. The fingerprint reader should be installed out of direct sunlight. Contactless Power supply Reader Identifiers Lock release Push button 00 6 6 6935 CITYLINE FINGERPRINT READER EM Outdoor/Indoor. Flush box included (ref.8948). ref.6935 Optional surface box (ref.7061). Reader dim. S1: 130x128 Flush box dim. 6 S1:115x114x45 6937 **CITY KEYPAD/FINGERPRINT** EM ref.6937 Flush mounted installation. Flush box included (ref.8855). Optional surface box (ref.7065). -Reader dimensions S5: 130x246. Flush box dimensions: 115x233x45. î ref.6936 EM 0 SKYLINE FINGERPRINT READER W 6936 Accessory for SKYLINE and CITYLINE panels. EM ref.5482 Reader dim. ST1: 150X180 MARINE FINGERPRINT READER 5482 230Vac ref.4802 or ref.4813 Stainless steel. ST1 flush box included (ref.4641). ٥ ref.5207 ref.67501 (with power supply ref.4813, 12Vdc) ref.6935

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



#### **INKEY MINI IP FINGERPRINT READER**



#### ACCESSORIES

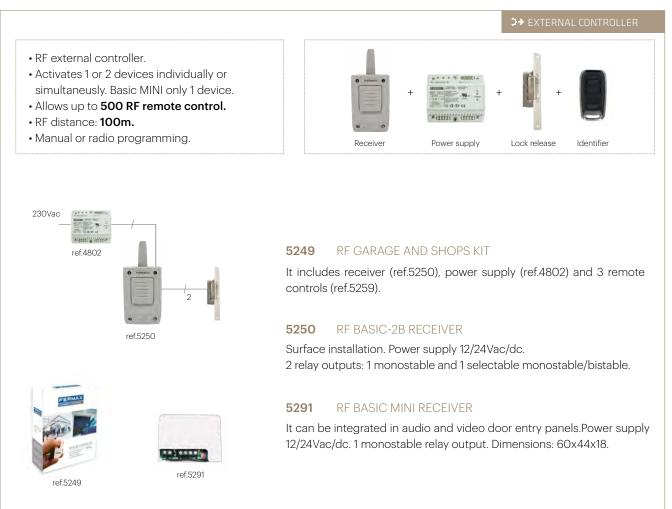
		ON ACCESSORIES
	4813	POWER SUPPLY DIN6 100-240VAC/12VDC-2A
A REAL PROPERTY AND A REAL	67501	UNIV. LOCK RELEASE 990N-P22 MAX 10-24Vac/dc
	67524	UNIV. LOCK RELEASE 990A-S MAXC/DC
1#11111 #11111#1	5287	FLUSH MOUNTED PUSH BUTTON (2 wires)
	5288	SURFACE MOUNTED PUSH BUTTON (2 wires)
ref.4813 ref.67501 ref.5207	5207	CONTACTLESS PUSH BUTTON FLUSH MOUNTED (4 wires, 12 Vdc)
20.0.0.00	5208	CONTACTLESS PUSH BUTTON SURFACE BOX
	1076	MC740 G2 MAGNETIC CONTACT
	ACCES	SORIES FOR REF. 6935, 6936, 6937 AND 5482
ref 5287 ref 4802 ref 24661	4802	POWER SUPPLY DIN4 230VAC 12VAC/1A
101.0207 101.4002 101.24001	23361	EM FERMAX PROXIMITY CARD
	4515	PROXIMITY KEYRING
	24661	USB ADAPTOR TO RS485
ref.23361		rry for Inkey readers with PC connection. 1-24661 is required / 15 network fingerprint readers.
Customisable	<b>INKEY</b>	MINI ACCESSORIES
	52750	PROXIMITY CARD MIFARE FERMAX
	52740	PROXIMITY KEYRING FERMAX MIFARE
reman transfer operative	2013	ADDITIONAL FUNCTIONS RELAY
ef.52750 ef.52740	1498	12Vdc PoE SPLITTER





## 4. RADIOFREQUENCY (868MHz)

#### **RF RECEIVER**







5259	RF KEYSINGLE-MINI REMOTE CONTROL
5231	RF KEYSINGLE-PLUS REMOTE CONTROL 2 BUTTONS
5232	RF KEYSINGLE-PLUS REMOTE CONTROL 4 BUTTONS



#### ACCESSORIES

POWER SUPPLY DIN4 230Vac 12Vac/1A
POWER SUPPLY DIN4 230Vac/12Vac-1,5A
POWER SUPPLY DIN4 100-240Vac 12Vdc/2A
UNIV. LOCK RELEASE 990N-P22 MAX 10-24ac/dc
LOCK RELEASE 990A-P22 12-24Vac/dc

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









### 1. CENTRALISED AC-MAX

The system is based on IP controllers which can be installed at various network points in the same facility, with one controllers per every two or four doors.

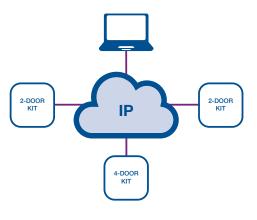
CENTRALISED

When the doors to be secured are in different buildings, or if there is a long distance between doors in the same building, more IP controllers can be added.

The controller works with both Wiegand readers and FPAC-MAX fingerprint readers (bus RS-485).

The number of kits can easily be expanded depending on the needs of each project. They are linked using an ethernet or network point.

- User and project setup wizard.
- Web service. Monitoring events, accesses and users.
- Email alerts.
- · It allows to visualize a site map in real time to control door status and remote door opening.
- IP automatic detection.
- Multiple identifiers per user.



- Present users management.
- Visit management.
- CCTV integration.
- SQL Compact data base.
- CCTV Integration.
- Lift control (it requires aditional license).
- · Relay activation and sensor inputs.

				>→ EXTERNAL	CONTROLLER
		+ - +	F1000000 +	+	
2-Door kit controller	4-Door kit controller	Batteries	Wiegand reader	FPAC-MAX fingerprint	Identifier

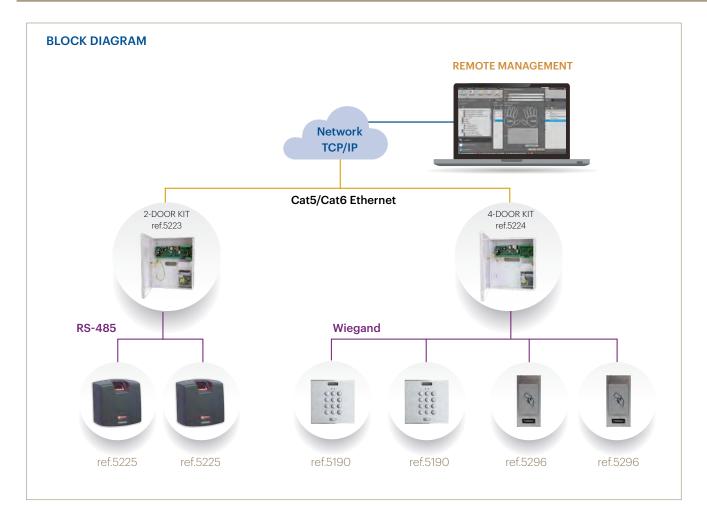
ACCESS CONTROL

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



ACCESS CONTROL CENTRALISED





FEATURES		
SYSTEM	Centralised	
CONNECTIVITY BETWEEN CENTRAL UNITS	Native IP	
MANAGEMENT CONNECTION	TCP/IP	
WIEGAND READERS	Prox: City, Marine, Skyline, Resistant Keypad: City, Marine, Skyline, Resistant. RF receivers.	
FINGERPRINT READER	Registration of users and fingerprints from the same software.	
MAX. NUMBER OF USERS	8.192 / central unit	
NUMBER OF DOORS (1 READER PER DOOR)	Unlimited	
MAX. NUMBER OF NETWORKED CONTROLLERS	Unlimited	
MANAGEMENT OF CENTRAL UNIT EVENTS	8.000.000	
RELAYS AND SENSORS	Integrated into main controller card and expander card	
SCALABLE AND EXPANDABLE	Yes	
SOFTWARE	Free Software	

	<b>REF.5223</b> 2-DOOR KIT	<b>REF.5224</b> 4-DOOR KIT
NUMBER OF DOORS	2	4
MAX NUMBER OF ENTRY READERS	2	4*
MAX NUMBER OF EXIT READERS	2	4*

\* In the 4 door KIT it is possible to connect up to 4 Wiegand readers or 8 fingerprint readers (4 entry and 4 exit).



### SOFTWARE

#### AC-MAX has 2 free softwares:

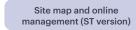
n@)

AC-MAX ST, with all the functions required to cover complex and big projects.

AC-MAX LITE (LT), it is a simplified version which is recommended on small or medium projects (up to 20 doors) or medium complexity where it is not required a real time supervision of the system from a computer. Languages: Spanish, English, Portuguese, French, German, Dutch.

<section-header>





SOFTWARE FEATURES	LT 2.0	ST 2.0	SOFTWA
CAPACITY			Credent
Licenses required	NO	NO	Different
No. of doors	no limit	no limit	ADVANC
No. of users/central	8.192	8.192	Limited I
No. of central units	no limit	no limit	Global A
No. of relays	no limits/	no no limits/	Perimetr
	128 per controller	128 per controller	Client/S
No. of sensors	no limits/ 128 per	no limits/ 128 per	Multi Co
	controller	controller	Different
No. of events	8.000.000	8.000.000	Internet
BASIC FUNCTIONS			Time & A
Configuration Wizard	NO	YES	Basic vis
Real time event monitoring	YES	YES	Design/F
Reports	YES	YES	Advance
Built-in fingerprint enrolment	YES	YES	Authenti
Site Map	NO	YES	Asset ma
Software remote door opening	YES	YES	Email ale
Local Antipassback	YES	YES	Fire Alar
Different operator profiles	YES	YES	INTEGRA
Access Zones	YES	YES	External
Occupancy limit	YES	YES	CCTV via
Occupancy count	YES	YES	API
List of persons in a zone	YES	YES	
Alarm zones	YES	YES	Lift Cont
Automations	YES 8 auto- mations	YES 8 auto- mations	

SOFTWARE FEATURES	LT 2.0	ST 2.0
Credential expiry date	YES	YES
Different credentials per user	YES	YES
ADVANCED FUNCTIONS		
Limited number of accesses per user	NO	NO
Global Antipassback	NO	YES
Perimetral zones	NO	YES
Client/Server installation	YES	YES
Multi Company parition	NO	YES, License required
Different projects managment	YES	YES
Internet remot management	YES	YES
Time & Attendance	Basic	Basic
Basic visit management	NO	YES
Design/Print prox cards	NO	YES
Advance Authorization	NO	YES
Authentication policies	YES	YES
Asset management	NO	YES
Email alerts	NO	YES
Fire Alarm inputs	NO	YES
INTEGRATION		
External Database	YES	YES
CCTV video stream reception	YES	YES
API	NO	YES, License required
Lift Control	NO	YES, License required







### CENTRALISED ACCESS CONTROL SYSTEMS

In Centralised access control systems, there **3 main elements.** 

- SOFTWARE This software can be used for:
- Setting up the system (controllers, time access, zones, etc.)
- Enrol new users and their credentials (prox cards, codes, fingerprints, etc.)
- Receive and store event logs from the controller or visualize events directly on a map.
- Send door release commands or temporal door unlock.

In **big projects**, the software could be requested to be installed in a corporate server where the data base will be protected and secured providing a high reliability of access control system. At the same time, to manage the system, a client software will be installed in computers that will be operated by the security manager or reception where a manager can interact and receive information from the system. This architecture or **functionality is called SERVER / CLIENT**.

#### **DOOR CONTROLLER**

This is the central element in the installation on which a centralised system is based.

It allows communication between the readers and the software, storing the permissions related to the doors that are controlled and can communicate with other controllers in charge of other doors.

The installation of the controller is normally located near the doors to control and it has the relays that will be used to release the door lock, as well as the sensor to detect the status of the door. The controllers have the necessary intelligence to take the right decision on granting the access or not by opening the door, even when there is no software running on installation.

#### **READERS AND IDENTIFIERS**

The readers are connected to the controller using in most of the cases Wiegand protocol or RS-485 bus. Wiegand is the protocol widely used by most of the reader manufacturers being one of the most common standard in access control. The user can be identified using different kind of media such as proximity cards, fingerprint, codes, or RF commands.

#### **RF PROTOCOLS**

There are different proximity reader protocols to read cards that offer different security levels and functionality. The more security and functionality the more cost. The most commons are:

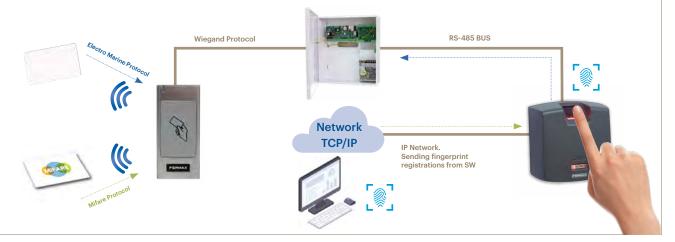
PROTOCOLS	Freq.	Security	Functionality
ELECTRO MARINE	125 KHz	*	*
HID ISO Prox II	125 KHz	*	*
MIFARE Classic	13,56 MHz	**	**
MIFARE Desfire	13,56 MHz	***	***

#### FINGERPRINT ENROLMENT

Wiegand fingerprint readers are compatible with plenty of door controller manufacturers as far as the fingerprints have been enroled. This compatibility does not guarantee that the users fingerprints can be enroled using the same controller software, since the fingerprint reader will require its own enrolment software and additional wires.

**AC-MAX allows a total integration between fingerprint reader and controller software.** With this **single software** controller it will be possible to send the new fingerprint credential\* from the computer to the reader through IP.

\* Fingerprint images will never be stored in any AC-MAX device. Only encrypted data that will help to identify the fingerprint is stored, so the real fingerprint cannot be reconstructed.





### CONTROLLERS



#### 5223 2-DOOR AC-MAX CONTROLLER KIT

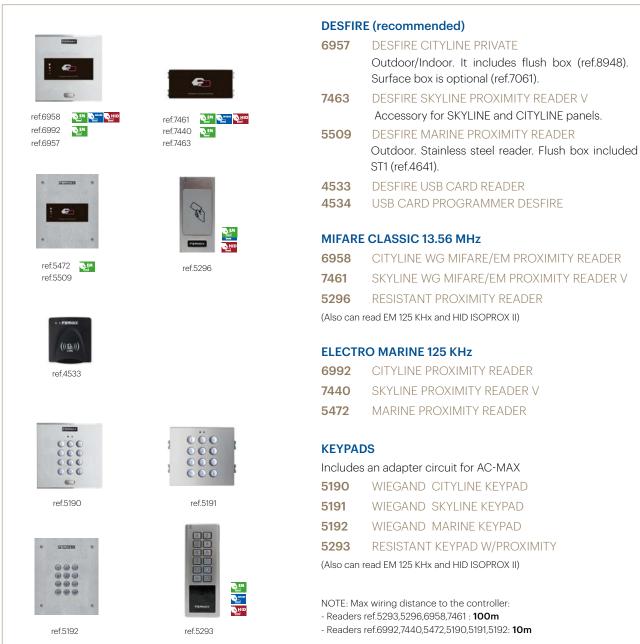
Includes metal box with power supply, an **IP controller unit**, and 2 door expander. Dimensions 295x285x90. PSU 3,5A

#### 5224 4-DOOR AC-MAX CONTROLLER KIT

Includes metal box with power supply, an **IP controller unit**, and 4 door expander. Dimensions 325x305x100. PSU 5,4A

For projects with more than 4 doors, just connect additional kits to the same IP Local Area Network. All kits will be managed by the same software on the LAN.

### READERS









#### **FINGERPRINT READER**



#### **5225** FINGERPRINT READER FPAC-MAX

Fingerprint reader with optical sensor and integrated prox card reader ISO/IEC 14443A, MIFARE. Dimensions 85x85x52.

The fingerprint reader should be installed out of direct sunlight.

#### **RF RECEIVER**



### **IDENTIFIERS**

		DESFIR	E (recommended)	
Printer District Balance		4531	DESFIRE PROXIMITY CARD EV2 2K	
ref.4	1531	4532	DESFIRE PROXIMITY KEYRING EV2 2K	
		MIFARE	CLASSIC 13,56 MHz	
	Professor University Office (172	52740	MIFARE PROXIMITY KEYRING N	
		52750	MIFARE PROXIMITY CARD	
ref.23361/2336	ref.52750			
		ELECTR	RO MARINE 125 KHz	
		4515	EM PROXIMITY KEYRING 🛛 🎦	
		23361	EM PROXIMITY CARD	
ref.4515	ref.52740			
		RF 868 MHz CONTROLLERS		
		Compatibles con receptores ref.5266.		
:		5259	RF KEYSINGLE-MINI EMITTER 2 PUSH	
	-	5231	RF KEYSINGLE-PLUS EMITTER 2 PUSH	
		5232	RF KEYSINGLE-PLUS EMITTER 4 PUSH	
ref.5259	ref.5231	*Proximity	and RF Identifiers are not sequential so ID numbers are not correlative.	



### ACCESSORIES



ref.5201 72 x 155 x 20 mm



ref.5204

#### 5201 EXPANDER 8 INPUTS / 8 OUTPUTS (EXP8-IO)

8 input / 8 output expander board. It allows to activate up to 8 relay outputs to automate functions or simultaneous door opening. It allows to detect up to 8 sensor inputs for alarms or door status. The circuit includes DIN rail mounting adapters. It is required an additional DIN rail surface/flush box (not included in the product). Max. 14 expansers connected to Kit AC-MAX.

#### 5204 DESKTOP PROXIMITY READER AC-MAX (KEY3-USB)

USB desktop reader that allows the enrolment of new user credential reading the MIFARE cards directly on the software. Therefore, it is not required to write the printed code on the prox. card. Includes the USB desktop cable and support.

#### 1608 AC-MAX LICENSE DONGLE (KEY6-USB)

Security dongle required to upload integration licenses on the SW. It is required to acquire additional integration licenses based on the number of accesses (ask for more information).

#### LIFT CONTROL



ref.5222



ref.5201 72 x 155 x 20 mm



ref.5209

#### 5222 LIFT CONTROL 8 FLOOR KIT

#### 1 x IP controller board

- 1 x 8 input / 8 output expander board Ref.5201
- 1 x built-in 8 floors license stored in local SD card Ref.5221
- 1 x PSU 5.4A
- 1 x DIN Rail metal case. (Can allocate additional 2 x Ref.5201 8 I/O)

#### 5201 EXPANDER 8 INPUTS / 8 OUTPUTS (EXP8-IO)

Board that provides **8 additional relays**, to activate 8 additional floors. The LIFT CONTROL KIT already includes 1 board so can manage **8 floors**. Up to 7 additional 8 I/O expanders can be connected and powered from LIFT CONTROL KIT.

Total number of relays in a single LIFT CONTROL KIT will be 64.

#### 5221 L.C. 8 FLOORS LICENSE Extension

**Digital file** to UPGRADE the Lift Control Kit with **8 additional floors**. The LIFT CONTROL KIT already includes 1 license for 8 floors.

NOTE: When ordering 2 or more 8 Floor Licenses extensions for a LIFT CONTROL KIT, 1 single file containing all the floors will be received.

Ref.5222 MAC address to be provided when ordering.

#### 5209 LIFT CONTROL METAL ENCLOSURE

Metal case to allocate additional Ref.5201 8 I/O expanders Total amount of expanders that can be allocated in this box is 4 (additional 32 relays/floors)



# TECHNICAL INFORMATION

Tables. Diagrams



# WAY VIDEO KITS FEATURES

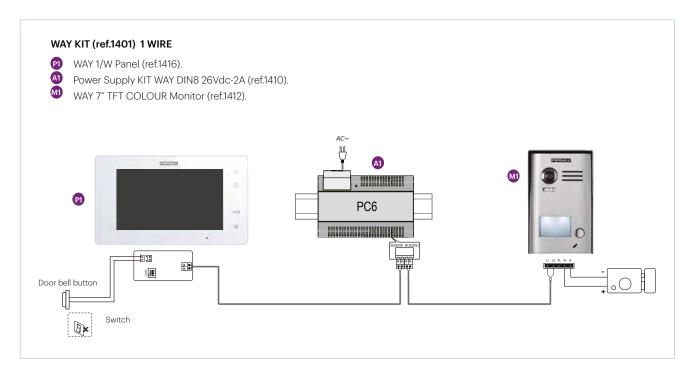
FERMAX

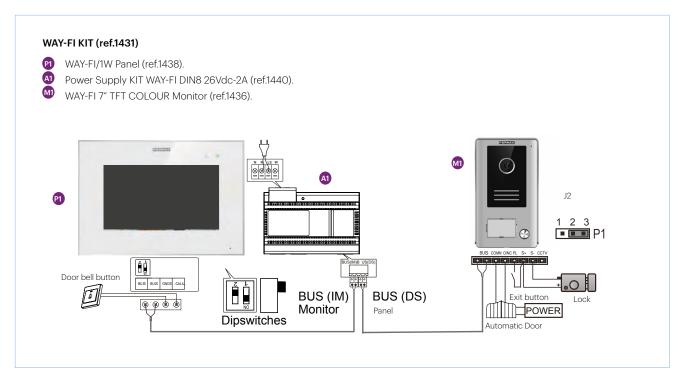
PL <sup>2</sup> Techhology Plug&Play ⊕2wires		
2 WIRES WAY VIDEO KITS	WAY-FI KIT 1431	WAY KIT 1401/1402
OUTDOOR PANEL		
Finish	Aluminium	Zamak
Mounting	Surf	face
Output +12Vdc for lock release	Ye	es
Recommended lock release	Normal lock release with unloc 990ND-P22 MA	
Free potential contact	Ye	es
Angular camera	(Horizontal=119°, Vertical=89°)	(Horizontal=93°, Vertical=71°)
Camera resolution (H x V)	300 x 220 (CMOS 900 TVL)	425 x 350
Voice synthesiser ("The door is)		_
Integrated access control		_
Compatible with relay for 2nd door opening	Relay integrated in amplifier	Yes (relay ref.1418)
Hood included	Yes	S
IP	44	43
Dimensions mm (with hood)	164x94x34	95x155x39
Possibility to add 2 <sup>nd</sup> panel	Yes (no additional device required)	Yes, (up to 3 additional panels, 4 in total, with 1 Switcher/WAY Distr. ref. 1419
Operating temperature	[-25°C, +	-70°C]
MONITOR		
Conversation mode	Hands-free	
Screen	7″ to	
	[-20°C,	
Operating temperature		
Screen resolution (V x H)	1024 x 600 pixels	800 x 480 pixels
Auto-on	Ye	98
Capture of images	Yes (100 photos without SD, 1.000 with SD)	Yes (118 photos)
Call history (with date and hour)	Ye	25
Intercommunication	Ye	25
Call divert to a smartphone	Yes	-
Operation in WI-FI or 3G/4G mode	Yes	-
Video recording (SD card not included)	Ye	
Melodies	16	20
Contrast control Volume control and "Do not disturb" function	Ye	
Doormatic	Ye	
Doormatic Door bell	Ye	
Additional functions	re	
Compatibility with telephone interface	-	
Compatibility with surveillance cameras	- Yes (1 additional analogue camera in each outdoor panel, total 2)	-
Dimensions (mm)	222x154x10	225x137x17

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

Way Way-Fi

### WAY VIDEO KITS DIAGRAM









To pair the mobile device to the WAY-FI video door entry follow the steps in our video-tutorial.

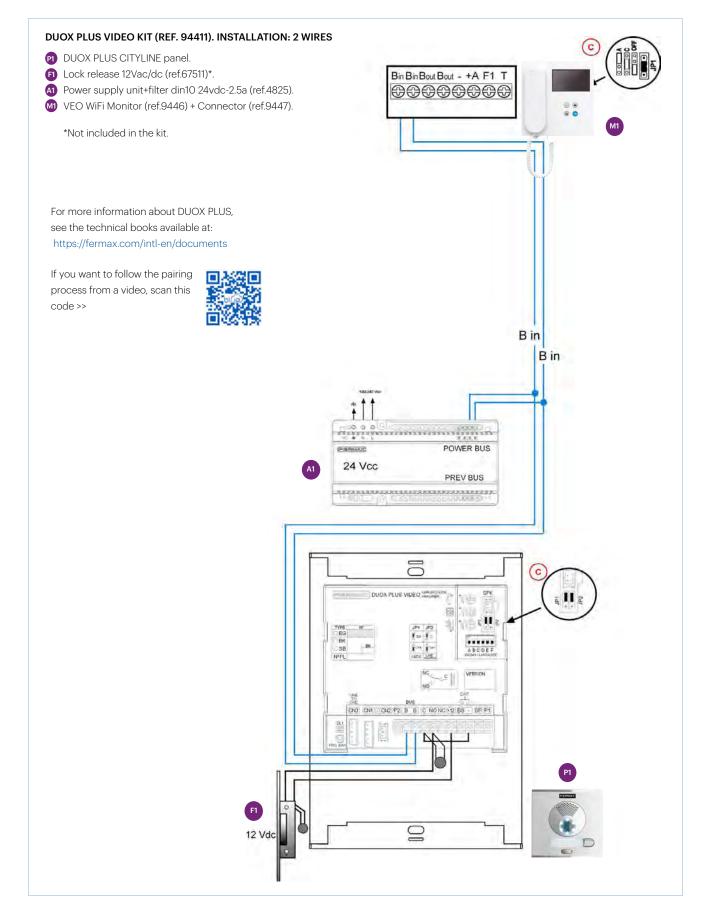
iPhone

# DUOX PLUS VIDEO KITS FEATURES

PL2 $ \begin{array}{c}                                     $	VEO D	Vice of a			
	VEO-XL WIFI KIT	VEO-XS WIFI KIT	VEO WIFI KIT	VEO-XS WIFI MARINE KIT	VEO-XS WIFI MARINE BLACK KIT
DUOX PLUS VIDEO KITS	9471 9472	94511 94521	94411 94421	50731	50831
OUTDOOR PANEL	5472	54521	34421		
Finish	Alur	ninium and chromed	zamak	316L Stai	nless Steel
Mounting		Flush mounted (Op	tional: surface with its	corresponding box)	
Output +12Vdc for lock release			Yes		
Recommended lock release	Normal lo	ock release with unloc	king and adjustable la	tch 990ND-P22 MAX	(ref.67511)
Free potential contact			Yes		
Wide angle camera		(Ho	rizontal=100°, Vertical=	-80°)	
Voice synthesiser ("The door is)			Yes		
Integrated access control			-		
Accessibility icons			-		
IP/IK		IP43 IK07		IP65	IK09
Panel dimensions (mm)		130x128		150	x180
Flush box dimensions (mm)	115x114x45 130x160x55			60x55	
MONITOR	- -				
Conversation mode	Hands-free With handset Hands-free			ls-free	
Screen	7" (panoramic 16:9) 4,3" (panoramic 16:9)				
Flush mounted possibility					
Push buttons	Mechanical				
Auto-on	Yes (up to 3 panels)				
Photocaller (capture of images)	Yes (up to 150 photos)				
Melodies	5				
Contrast control	Yes				
Volume control and					
Do not disturb function			Yes		
Date and hour control			Yes		
Doormatic	Ye	Yes		Y	es
Door bell	Yes				
Additional functions	2 (F1, F2)				
Call forwarding to smartphones and tablets	Yes				
Video surveillance cameras	No				
Dimensions (mm)	185x185x21	125x165x21	200x200x21	125x	165x21
Decorative frame	ref.3389	ref.3388	ref.3389	ref.3388 (	120x240) or
	(210x240)	(120x240)	210x240	ref.3389	(210x240)
		or ref.3389			
		(210x240)			

PL2 Plug&Play DUOXplus						
DUOX PLUS VIDEO KITS	VEO-XS WIFI MARINE ONE-TO-ONE KIT	VEO WIFI ONE-TO-ONE KIT	VEO WIFI MEMOVIS. KIT	VEO-XS WIFI MEMOVIS. KIT		
DUOX PLUS VIDEO KITS	50731	49081	49071	49121		
OUTDOOR PANEL						
Finish	316L Stainless Steel	eel Aluminium and chromed zamak				
Mounting	Flus	Flush mounted (Optional: surface with its corresponding box)				
Output +12Vdc for lock release		Ye	2S			
Recommended lock release	Normal lock re	lease with unlocking and ac	ljustable latch 990ND-P22 N	/AX (ref.67511)		
Free potential contact		Ye	es			
Wide angle camera		Yes (Horizontal=10	00°, Vertical=80°)			
Voice synthesiser ("The door is)		Ye	2S			
Integrated access control		-	Yes, k	eypad		
Accessibility icons	Y	es		-		
IP/IK	IP65 IK09		IP43 IK07			
Panel dimensions (mm)	150x240	130x199	130;	×246		
Flush box dimensions (mm)	130x220x55	115x185x45 115x233x45				
MONITOR						
Conversation mode	Hands-free	With h	andset	Hands-free		
Screen	4,3" (panoramic 16:9)					
Flush mounted possibility	-					
Push buttons	Mechanical					
Auto-on		Yes (up to	3 panels)			
Photocaller (capture of images)		Yes (up to 1	50 photos)			
Melodies		5	5			
Contrast control		Ye	es			
Volume control and						
Do not disturb function		Ye	2S			
Date and hour control		Ye	es			
Doormatic	Yes	-		Yes		
Door bell		Y∈	es			
Additional functions		2 (F1	, F2)			
Call forwarding to smartphones and tablets	Yes					
Video surveillance cameras	No					
Dimensions (mm)	125x165x21	200x2	200x21	125x165x21		
Decorative frame	ref.3388	ref.3	3389	ref.3388		
	(120x240)	210;	x240	(120x240) or		
	or ref.3389			ref.3389		
	(210x240)			(210x240)		







# DUOX PLUS PANELS FEATURES

### SKYLINE GENERAL FEATURES

Panel	Modular. 2 module sizes (V, W). Total: 27 modules.		
Finish	Extruded aluminium curved-convex profile and anodised finish. Injected zamak and		
	chromed finish on push buttons, keypads and tops.		
IP / IK	IP43 / IK07		
Operating temperature	[-25°C, +70°C]		
Installation / Mounting	Flush mounted/Surface. Select the corresponding box separately.		
Support to installer during cabling process	Hinges for lateral or frontal folding of the outdoor panel.		
Ledge on the wall (flush mounted)	19 mm		
Ledge on the wall (surface mounted)	33 (Surface box) + 19 (Panel) mm		
Width	130 mm		
Height	8 series		
Fixing screws	Frontal (2 screws). Hidden by FERMAX logo and inferior stopper.		
Complements	Single and double hood; single and double frame; single, double and triple modular		
	frame; single angular complement.		

CITYLINE PANEL FEATURES	CITYLINE PANEL FEATURES		
Panel	Monoblock panel. Composed by independent modules to facilitate the maintenance.		
	Curved-convex profile extruded aluminium and anodised finish.		
Finish	Injected zamak and chromed finish push buttons, keypads and stoppers.		
IP / IK	IP43 / IK07		
Operating temperature	[-25°C, +70°C]		
Installation / Mounting	Flush/Surface mounted. Select the corresponding box separately.		
Support to installer during cabling process	Hinges for lateral or frontal folding of the outdoor panel.		
Ledge on the wall (flush mounted)	19 mm		
Ledge on the wall (surface mounted)	33 (surface box) + 19 (panel) mm		
Width	130 mm		
Height	9 series		
Fixing screws	Frontals (2 screws). Hidden by FERMAX logo and inferior stopper.		
Complements	Single and double hood; single and double frame; single, double and triple modular		
	frame; single angular complement.		

MARINE GENERAL FEATURES	
Panel	Monoblock panel. It is composed of independent models for facilitating the maintenance.
Finish	AISI 316L Stainless steel (2,5 mm thick) / Vandal-proof stainless steel push buttons.
IP/IK	IP65 / IK09
Operating temperature	[-25°C, +70°C]
Installation / Mounting	Flush/Surface. Select the corresponding box separately
Ledge on the wall (flush mounted)	2,5 mm
Ledge on the wall (surface mounted)	55 mm (surface box without hood)+ 2,5 (panel) mm
Width	150 mm
Height	4 series
Fixing screws	Frontal and vandal-proof screws.
Complements	Single hood for flush box.



# DUOX PLUS MONITORS FEATURES

GENERALS FEATURES	9445	9448	9468		
Technology	DUOX PLUS (F	ull digital. 2 non pola	rised wires)		
Audio/video system		Audio/Colour video	· · · · · ,		
Mounting	Surface	e: order connector re	f9447		
Desktop support	ref.9410		9420		
Handset with magnet to facilitate the hang up	Yes	101.0			
Hands-free communication	-	V	es		
Optional communication: press-to-talk			23		
Induction loop version	Yes (ref. 9455)	Yes (ref. 9458)	Yes (ref. 9478)		
•		. ,			
Screen dimensions		ramic 16:9)	7" (Panoramic 16:9)		
Screen resolution (H x V)	480	x272	800x480		
Colour of the product		Matt White			
Number of push buttons	4		5		
Kind of push buttons		Mechanical			
Number of leds for light indicators	1		3		
TERMINAL ADDRESS PROGRAMMING					
From the indoor terminal		From OSD menu			
From the outdoor panel or guard unit		Yes			
From the outdoor panel through the door bell (outside the residence)		Yes			
FEATURES	)/ac (1 mb ata /acili	, up to 150 photos, 33			
Automatic picture capture when visitors call (Photocaller) Guard Unit call		m the door opener b	, ,		
Auto-on		Yes (up to 3 panels)	oution)		
OSD menu		Yes			
Additional function F1	Yos (sonding	g of negative and/or	command)		
Additional function F2		only sending of nega			
Door bell	163 (0	Yes	uve)		
Connection for additional devices (call extension, light/buzzer activator)	Yes (ref. 20/	10, ref. 2438, ref. 3267	7 ref 3233)		
Additional terminals on the same address	,	minals (add. p.suppl	. ,		
Doormatic (automatic door release for offices, etc.)	-	Yes (configura			
CONTROLS		100 (Cornigaio			
Date and time		Yes			
Ring tone selection		Yes (5)			
Call volume control	Yes (10 levels by	Yes (10 levels l	ov OSD menu		
	OSD menu)	and slidir	,		
"Do Not Disturb" function		Yes (by OSD menu)			
Audio volume control	Yes (10 levels by	Yes (10 levels	by OSD menu		
	OSD menu)	and slidir	ng wheel)		
Adjustment of brightness, contrast and colour		Yes (by OSD menu)			
TECHNICAL FEATURES					
Product dimensions (width x height x depth) mm	200x200x23	125x165x21	185x185x21		
Time to answer or open the door since the call is done		30 s.	1		
Conversation time	90 s.				
Conversation privacy Yes					
Voltage		18-24Vdc			
Maximum consumption (W)	5,2	6,5 (14,4 with the inductive loop on)	9 (15,6 with the inductive loop on)		
Standby consumption (W)	0,8	0,8	1,15		
Working temperature (°C)		[-5°C, +40°C]			
I have been a second		[0%, 90%]			
Humidity					
Connections	Bin, E	Bin, Bout, Bout, -, +A,	F1, T		

 $^{\ast}$  This function can be activated by the user. Deactivated as default.



# DUOX PLUS WIFI MONITORS FEATURES

GENERALS FEATURES	9446	9449	9469		
Technology		S (Full digital. 2 non p	larised wires)		
Audio/video system	DOONTEO	Audio/Video colou			
Mounting	Surfac	ce: order connector re			
Desktop support	ref.9410	1	9420		
Handset with magnet to facilitate the hang up	Yes		-		
Hands-free communication	-	Ye	es		
Optional communication: press-to-talk	-		es		
Induction loop version	Yes (ref. 9456)	Yes (ref. 9459)	Yes (ref. 9479)		
Screen dimensions	. ,	pramic 16:9)	7" (Panoramic 16:9)		
Screen resolution (H x V)		)x272	800x480		
Colour of the product		Matt White			
Number of push buttons	4		5		
Kind of push buttons		Mechanical			
Number of leds for light indicators	2		4		
TERMINAL ADDRESS PROGRAMMING					
		5 000			
From the indoor terminal		From OSD menu			
From the outdoor panel or guard unit		Yes			
From the outdoor panel through the door bell (outside the residence)		Yes			
FEATURES					
Automatic picture capture when the visitor calls (Photocaller)	Yes (1 photo/cal	l, up to 150 photos, 36	68 x 288 pixels)*		
Guard unit call	Yes (fro	om the door opener k	outton)		
Auto-on	Yes	s (with 3 outdoor pane	els)		
OSD menu		Yes			
Additional function F1	Yes (sendir	ng of negative and/or	command)		
Additional function F2	Yes	(only sending of nega	tive)		
Apartment door bell differentiated from the outdoor panel		Yes			
Connection for additional devices (call extension, light/buzzer activator)		40, ref. 2438, ref. 325			
Additional terminals on the same address	Yes, max. 2 add. te	erminals (add. p.suppl	y can be required)		
Doormatic (automatic door release for offices, etc.)	-	Yes (configura	ble up to 12h)		
CONTROLS					
Date and time		Yes			
Ring tone selection		Yes (5)			
Call volume control	Yes (10 levels by		by OSD menu		
	OSD menu)	and slidi	ng wheel)		
"Do Not Disturb" function		Yes (by OSD menu)			
Audio volume control	Yes (10 levels by OSD menu)	Yes (10 levels and slidir	by OSD menu ng wheel)		
Adjustment of brightness, contrast and colour		Yes (by OSD menu)			
TECHNICAL FEATURES					
Product dimensions (width x height x depth) mm	200x200x23	125x165x21	185x185x21		
Time to answer or open the door since the call is done		30 s.			
Conversation time	90 s.				
Conversation privacy	Yes				
Voltage		18-24Vdc	1		
Maximum consumption (W) (paired and connected)	5,6	6.9 (14,4 with the inductive loop on)	9,9 (18 with the inductive loop on)		
Standby consumption (W)	1,3		1,5		
Working temperature (°C)		[-5°C, +40°C]			
Humidity		[0%, 90%]			
Connections	Bin,	, Bin, Bout, Bout, -, +A,	F1, T		
Line adaptor included in the monitor (jumper JP1 positions: OFF (as default), A, C)	Yes	s (position as default: (	OFF)		

\* This function can be activated by the user. Deactivated as default.



# DUOX PLUS WIFI MONITORS FEATURES

CALL FORWARDING (BLUE APP FORFOR SMARTPHONES & TABLET	s)
Call forwarding to smartphones and tablets	Yes (App Compatible with iOS>=11; Android>=6)
Connectivity	WiFi 2,4GHz
Pairing of the monitor with the WiFi router of the house.	Once the App is installed, the user must register first. Pairing by scanning a QR code in the monitor menu
Maximum number of apartments that can be managed from the App	No limit
Maximum number of smartphones/tablets where call divert from the same house can be used.	10 (including administrator's and invited user's devices)
Maximum number of users that can be invited by the administrator	5
Calls reception	Audio and Video from outdoor panels/concierge units. With pre-view before audio communication is on.
Conversation time	90 s
Mute	Yes
Video off	To reduce the data consumption when being in 4G mode
Switching of outdoor panels/cameras	Yes. It allows for switching to other panels/cameras (if any) with the same sequence than the monitors.
Auto-on	Yes. communication possible with 3 outdoor panels/cameras without being called
Activate additional feature (stair light relay, second door, etc.)	Yes. F1 button.
Door opening	Yes, protected by the unblocking code of the smartphone/table PIN, fingerprint, pattern or face ID.
Concierge call	Yes
Calls register	Yes (answered calls in green; missed calls in red)
Settings	Name and picture of the house; Do not disturb; Change password; Ringtone and vibration mode.
Picture & Video capture	Not from the APP. Only automatically from the monitor
Available languages	16 (Spanish, English, French, German, Portuguese, Finnish, Czecl Polish, Dutch, Norwegian, Greek, Danish, Swedish, Hebrew, Russian, Arabic)







# DUOX PLUS TELEPHONES FEATURES

GENERALS FEATURES	3444	3452	3450
Technology	DUOX PLU	S (Full digital. 2 non pola	rised wires)
Audio/video		Audio	
Mounting		Surface	
Handset with magnet to facilitate the hang up		Yes	_
Hands-free communication		-	Yes
Optional communication: press-to-talk		-	Yes
Inductive loop version	Handset ref.3443	Ask for handset ref. 3441	-
Colour of the product		Matt white	
Number push buttons	1	3	5
Kind of push buttons		Mechanical	
Number of leds for light indicators	-	1	3
TERMINAL ADDRESS PROGRAMMING			
From the indoor terminal		-	
From the outdoor panel or guard unit		Yes	
From the outdoor panel through the door bell (outside the residence)		Yes	
FEATURES			
Guard unit call	Yes (*	from the door opener bu	itton)
Auto-on	Yes (only	with No. O panel from its	s own block)
Additional function F1	-	Yes (F1 button, sending of ne	egative and/or command
Additional function F2	-	Yes (F2 button, auxiliary command)	-
Apartment door bell differentiated from the outdoor panel		Yes	
Connection for additional devices (call extension, light/buzzer activator)	Yes (	ref. 2040, ref. 2438, ref. 3	267)
Additional terminals on the same address	Yes, max. 2 add.	terminals (add. p.supply	can be required)
Doormatic (automatic door release for offices, etc.)	-	Ye	S
CONTROLS			
Ringtones selection		Yes (5)	
Call volume control	Yes (switch)	Yes (by slidir	ng wheel)
"Do Not Disturb" function	Yes (switch)	Yes (by slidir	ng wheel)
Audio volume control		-	
TECHNICAL FEATURES			
Dimensions (width x height x depth) mm	82x214x43	85x220x40	90x146,5x20
Time to answer or open the door since the call is done		30 s.	
Conversation time		90 s.	
Conversation privacy		Yes	
Voltage		18-24Vdc	
Maximum consumption (mA)	3,5W	3,3W	3,6W
Standby consumption (mA)	0,3W	0,29W	0,4W
Working temperature (°C )		[-5°C, +40°C]	
Humidity		[0%, 90%]	
Product weight (kg)	0,34	0,35	0,16
Line adaptor included in the terminal	Yes (position as default OFF).	-	Yes (position as default OFF).



# PROJECT MATERIAL LIST. DUOX PLUS WIFI

SKYLINE			1 .	R		R		R	1	R	1	R	E.	Q		ă Q		unun unun				j. E		
PANEL	FRAME 3V	FLUSH BOX	FRAME 4V	FLUSH BOX	5	FLUSH BOX	6V	FLUSH BOX	2	FLUSH BOX	8 8	FLUSH BOX	JOINING CABLE BOLTS	CABLE		USH BU	TON MO	AMPLE PUSH BUTTON MODULES BLANK MODULES	ANK MOD	ULES	POWER SUPPLY	LINE ADAPTOR	VEO MONIT. + CONNECT.	VEO-XS MON. + CONNECT.
No. SERIES APA.	ref. 7333	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	ref. 73911	201 ref.7376	201 202 204 ref.7376 ref.7372 ref.7371	204 ef.7371 ref	V ref.7442 re	2V ref.7443	ref. 4825	ref. 3255	ref.9446 + ref.9447	ref.9449 + ref.9447
2 S4	-	-													~	-					-	7	2	5
4 S4	~	~													~		~				~	2	4	4
6 S5			~	~											~	~	~				-	7	9	9
8 S5			~	~											~			~			-	7	ω	œ
10 S6					~	~									~	~		~			~	7	0	6
12 S6					~	~									~		~	~			-	7	12	12
14 S7							~	~							~	~	~	~			~	2	14	4
16 S7							~	~							~			5			~	2	16	16
18 S8									~	~					~	~		2			~	2	18	18
20 S8									~	~					~		<del>.                                    </del>	2			-	7	20	20
22 S9											<del></del>	-			~	-	~	2			~	7	22	22
24 S9											-	-			~			ო			~	2	24	24
24 S5			7	7									-	~	~			ო			-	2	24	24
26 S6					2	7							~	~	~	-	7	2	~		~	2	26	26
28 S6					2	7							~	~	~	L	~	ო	<u> </u>		~	7	28	28
30 S6					2	7							~	~	~	~	~	ო			2	7	30	30
32 S6					2	7							~	~	~		7	ო			2	7	32	32
32 S7							0	7					~	~	~			4		~	2	7	32	32
34 S7							0	2					~	~	~	~		4	~		2	2	34	34
36 S7							ы	2					-	~	~		~	4	~		2	2	36	36
38 S7							0	0					-	~	~	~	~	4			2	2	38	38
40 S7							0	~					•	~	~			Ŀ			c	c	Ç	Ç

For installations where WiFi and NON-WiFi monitors are combined, in the consumption tables one WiFi monitor is equivalent to 3 NON-WiFi monitors. This table has been configured based on 1mm2 multi-wire parallel cable and floor distribution. For other situations please refer to the tables on page 58 of DUOX PLUS section.

ו 0.*	VEO-XS MON. + CONNECT	ref.9448 + ref.9447	2	4	9	ω	10	12	14	16	60	20	22	24	24	26	28	30	32	32	34	36	38	40
	VEO MONIT. + CONNECT	ref.9445 + ref.9447	2	4	9	œ	6	12	4	16	60	20	22	24	24	26	28	30	32	32	34	36	38	40
1	LINE VEO MONIT. ADAPTOR + CONNECT	ref. 3255	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	POWER SUPPLY + FILTER	ref. 4825	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	-	-	-	~	-
	BLANK MODULES	2V ref.7443																		~				
	MOD	V 1 ref.7442														~	~				~	~		
upan Arga	TON	204 2 ref.7371				~	~	~	~	7	2	7	0	m	ო	7	ო	ო	ო	4	4	4	4	2
	PUSH BUTTON MODULES	201 202 ref.7376 ref.7372		~	~			~	~			~	~			2	~	~	2			~	~	
g			~		~		~		~		~		~			~		~			~		~	
*	CABLE MODULE	ref. 1 73911	-	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	-	~	-	~	~	
0	NG CAB	. ref. 9 2541													~	~	<u> </u>	~	-	~	-	~	-	-
	H JOINING H	ref. 8829													~	-	-	~	-	~	-	-	~	-
	E FLUSH BOX	ref. 8982											~	~										
	FLUSH FRAME BOX 8V	ref. 7338											~	~										
I S	E FLUSH BOX	ref. 8858									<del></del>	-												
	SH FRAME X 7V	, ref. 7 7337									~	~												
	ME FLUSH	. ref. 16 8857							~	~										2	2	2		2
	FLUSH FRAME BOX 6V	: ref. 6 7336							~	~										2	2	2	2	2
		: ref. 15 8856					<u>~</u>	~								2	2	7	2					
	H FRAME	. ref. 5 7335					~	~								0	0	7	7					
	FRAME FLUSH 4V BOX	. ref. 4 8855			-	~									2									
		ref. 4 7334			~	~									2									
	FLUSH BOX	ref. 8854	~	~																				
	FRAME 3V	ref. 7333	~	~																				
SKYLINE PANEL		No. SERIES APA.	S4	S4	S5	S5	S6	S6	S7	S7	88 8	S8	6S	6S	S5	S6	S6	S6	S6	S7	S7	S7	S7	S7
SK		No. APA.	2	4	9	œ	9	12	4	16	18	20	2	24	24	26	28	30	32	32	34	36	38	40

DUOX PLUS VIDEO. SKYLINE PANEL/ VEO AND VEO-XS MONITOR

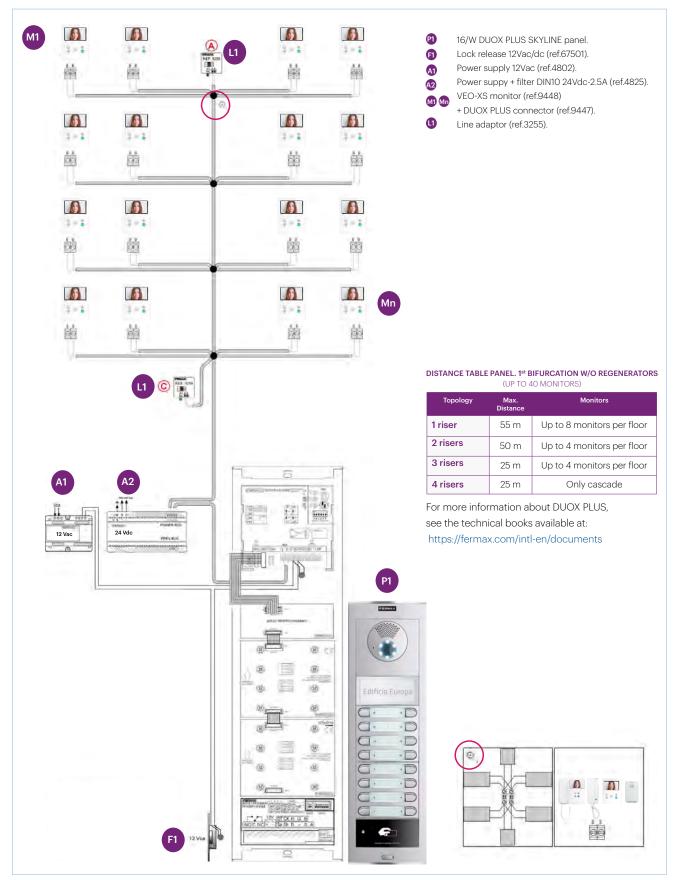
# PROJECT MATERIAL LIST DUOX PLUS



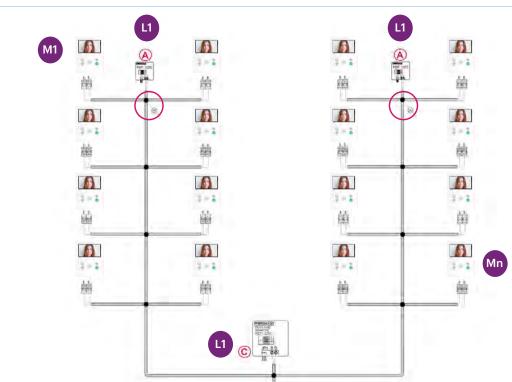
165

FERMAX

#### 1 ACCESS VIDEO DUOX PLUS TO 1 RISER OF 4 FLOORS. 4 APARTMENTS PER FLOOR



### 1 ACCESS VIDEO DUOX PLUS TO 2 RISERS OF 4 FLOORS. 2 APARTMENTS PER FLOOR



60

(3)

(A)

C CAPANA L LA

NOC NOL - Sa Sh B - 3 A

(30)

@F

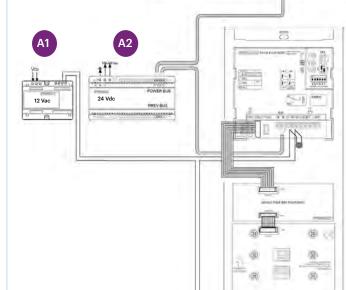
100 (66)

DISTANCE TABLE PANEL. 1st BIFURCATION W/O REGENERATORS

	(UP TO 4	10 MONITORS)
Topology	Max. Distance	Monitors
1 riser	55 m	Up to 8 monitors per floor
2 risers	50 m	Up to 4 monitors per floor
3 risers	25 m	Up to 4 monitors per floor
4 risers	25 m	Only cascade

For more information about DUOX PLUS, see the technical books available at: https://fermax.com/intl-en/documents



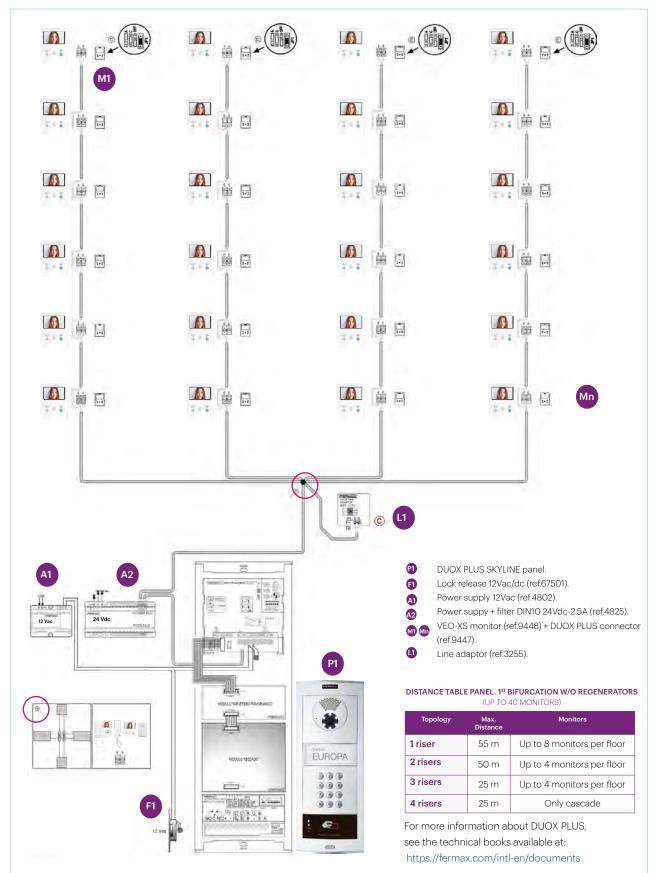


F1

12 Vca

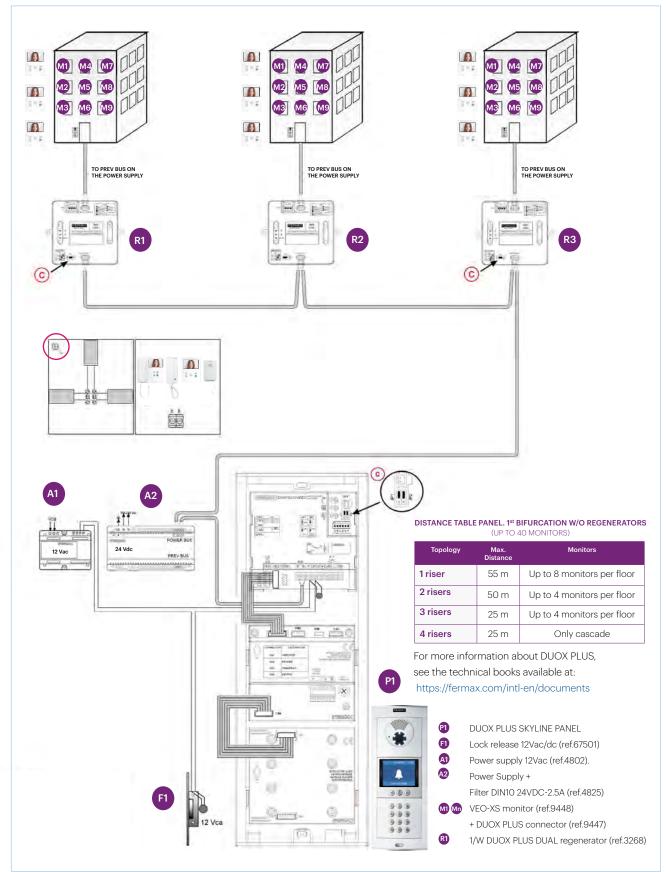
FERMAX

#### **1 ACCESS WITH SKYLINE PANEL TO 4 RISERS OF 6 APARTMENTS IN SERIES**





### **1 ACCESS VIDEO DUOX PLUS TO 5 INTERIOR BLOCKS**

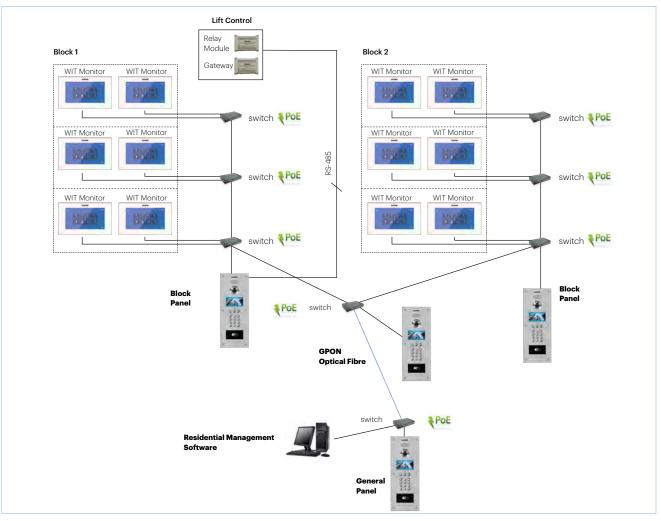




### MEET PANEL FEATURES

GENERAL FEATURES	KIN PANEL REF. 1445	MARINE MEET PANEL REF. 1455	MILO PANEL REF. 9531,9532,9533,9534,9535			
Panel	Capacitive Touch Screen	Digital panel with backlighted mechanical keypad.	Digital panels with capacitive touch keypad or mechanical keypad. 1 way push button panels.			
Finish	Aluminium	Stainless steel	Aluminium			
IP	IP 54	IP 54/IK09	IP 54			
Operating temperature	-40°C t	o 70ºC	-20°C to 60°C			
Installation mounting		Flushed or	Surface			
Installation adjustment	F	lush box with adjustable screw	s or surface with surface box			
Ledge on the wall (flush mounted)		8mn	n			
Fixing screws	Not visible	Visible security screws (Inox)	Not visible			
Electronic calling directory	Yes	Yes	No			
Low-lighting vision		0,5 Li	XL			
Camera resolution	1,2 Mpx (Digital P.) 1 Mpx (1/W Video P.)	1,3 Mpx	1,2 Mpx (Digital P.) 1 Mpx (1/W Video P.)			
Sends video to recorder		Yes - Continuous RTSP IP stream				
Aerial camera display		Up to 4 cameras RTSP IP				
Camera View Angle	105°H 55°V	128°H 70°v	72°H 54°V			
Opening secondary doors	Yes, u	sing module ref.1491 in digital p	panels and 1490 in MILO 1L panels			
PIN code		Up to 8 PIN codes per pa	anel for door opening			
Face Recognition	U	p 10.000 users	Up to 6.000 users in digital panels			

### MEET DIAGRAM





# MEET MONITORS FEATURES

GENERAL FEATURES	NEO 7″ 14501	7″ WIT 14701	10″ WIT 14811			
Technology		MEET Full IP				
Mounting	Su	ırface	Flush/Surface			
Hands-free communication		Yes				
Optional communication: press-to-talk		No				
Inductive loop version		No				
Screen	7″		10″			
Screen Resolution	800 x 480	1024	x 600			
Capacitive MENU push button	No. Direct	access to menu when touching	the screen			
F1 Quick-access function push button		No				
Status Led Notification	Yes.	Missed Call. Message. Do not d	isturb			
PROGRAMMING AND TECHNICAL FEATURES						
Programming modes		On screen menu or web serve	۲			
Address Assignment		Static IP + apartment numbe				
PoE						
Codecs		Yes G.711, H.264				
FEATURES		<u>9.711, п.204</u>				
		04 i i i i i i i i i i i i i i i i i i i	1 .			
Picture capture when the visitor calls		64 pictures. Automatic or man				
Memory photo download in SD Card		Yes v2.1 in MIO and WIT monito	rs			
Guard Unit call		Yes				
Selection of Guard Units		Yes				
SOS Call to Guard Unit		Yes. SOS icon.				
Analogue SOS push button connection		Yes				
Tamper-proof system		Yes				
Auto-switch on of panel		Yes				
Visualization of IP video surveillance cameras		Yes, up to 8 via RTSP				
Internal Intercom	Yes (v3	3.0) Up to 9 terminals in the sam	ne house			
Apartment to apartment intercom	Yes					
Monitor to monitor messaging		No				
Receive/send messages from/to GU	Monitor can receive messages from the Management Software					
or management software						
Remote relay activation		Yes, up to 8 (ref.1616)				
Lift Control activation		Yes				
Door bell connection		Yes				
IP CCTV door bell link		Yes via RTSP				
Audio notes		No				
Call extension module	No	o. 10 Vdc output on alarm trigge	ering			
Doormatic		No				
KNX Home Automation integration	Yes. v2.1 o	r higher through APPs. Gatewa	y is required			
Alarm management		7 zones + Tamper				
Call divert to APP	COMPATIE	BLE (free license included with t	he monitor)			
CONTROLS						
Date and time		Automatic or manual				
Selection of melodies		Yes				
Different melodies based on call source		Yes				
Call volume control		Yes				
"Do Not Disturb" function		Yes				
Conversation volume control		Yes				
		100				



# TECHNICAL INFORMATION TABLES AND DIAGRAMS

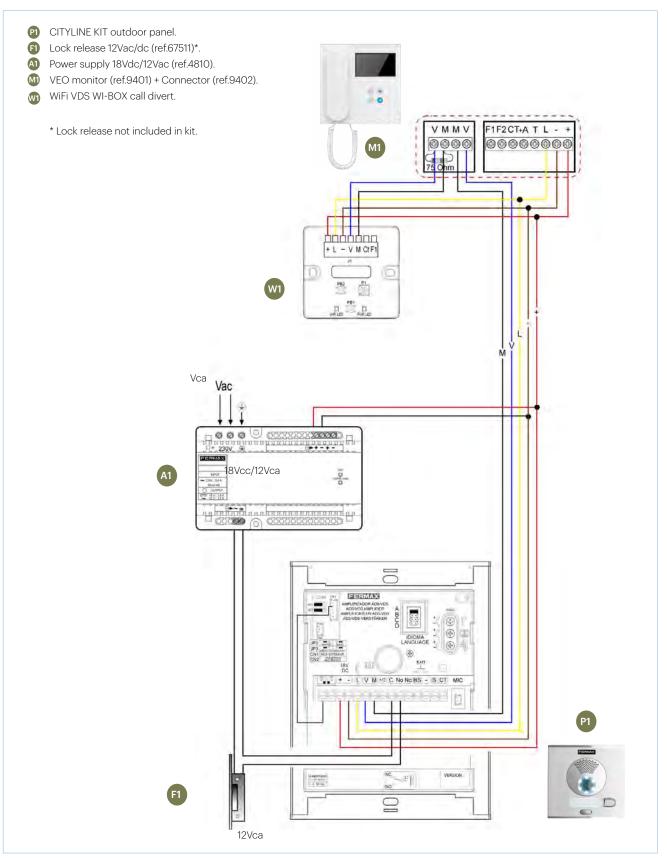
# VDS VIDEO KITS FEATURES

PL <sup>2</sup> Techhology Plug&Play $0 \le 5 / \text{UTP CAT } \circ 3 + \text{coax}$	
VDS VIDEO KITS	VDS WIBOX VEO KIT 94111
OUTDOOR PANELS	
Finish	Aluminium and chromed zamak
Mounting	Flush mounted
Output +12Vdc for lock release	Yes
Recommended lock release	Normal lock release with unlocking and adjustable latch 990ND-P22 MAX (ref.67511)
Free potential contact	Yes
Voice synthesiser ("The door is)	Yes
Integrated access control	-
Accessibility icons	-
IP/IK	IP43 IK07
Panel dimensions (mm)	130x128
Flush box dimensions (mm)	115x114x45
MONITOR	
Communication mode	With handset
Screen	4,3" (16:9)
Flush mounted possibility	-
Push buttons	Mechanical
Auto-on	Yes
Melodies	4
Contrast control	Yes
Volume control and Do not disturb function	Yes
Doormatic	-
Door bell	Yes
Additional functions	2 (F1, F2)
Audio/Video call forwarding to smartphone	Yes
Compatibility with telephone interface	Yes
Compatibility with aerial cameras	Yes
Dimensions (mm)	200x200x44
Decorative frame	ref.3389 (210x240)

VDS

# VDS VIDEO KITS DIAGRAM

#### VDS VIDEO KIT. (REF.9411). INSTALLATION: 5 WIRES/UTP CAT5





# VDS MONITORS FEATURES

GENERAL FEATURES	9401
Technology	VDS (3+coax or 5 wires)
Audio/video	Audio/Video Colour
Mounting	Surface (connector ref.9402)
Desktop support	Yes (ref.9410). Request connector.
Handset with magnet to facilitate the hang up	Yes
Hands-free communication	-
Optional communication: press-to-talk	
Inductive loop version	Yes (request separately VEO handset ref. 3443).
Screen dimensions	4,3" (Format 16:9)
Screen resolution (H x V)	480 x 272
Colour of the product	
Number of push buttons	White
•	-
Type of push buttons Status led notifications	Mechanical (silicone)
	1
TERMINAL ADDRESS PROGRAMMING	
From monitor	-
From the outdoor panel or guard unit	Yes
From the outdoor panel throughout the apartment door bell	-
FEATURES	
Automatic images capture when the visitor calls	-
Guard unit call	Yes (by means of the door release button)
Auto-on	Yes (up to 2 panels) and aerial cameras
OSD menu on screen	-
Push button for additional function (F1)	Yes (sends a negative)
Push button for additional function (F2)	Yes (sends a negative)
Door bell	Yes
Connection for additional devices (call extension, light/	Yes
buzzer activator, etc.)	
Doormatic (automatic door release for offices, etc.)	-
Audio/Video call forwarding to smartphone:	Yes (required ref. 3266 WiFi VDS CALL DIVERT WI-BOX. One unit per home)
CONTROLS	
Date and time	-
Ring tone selection	Yes (4)
Call volume control	Yes (2 levels, 3 positions switch: high, medium, OFF)
"Do not disturb" function	Yes (3 positions switch: high, medium, OFF)
Conversation audio volume control	-
Brightness, colour and contrast control	Yes (by sliding controls)
TECHNICAL FEATURES	
Product dimensions (width x height x depth) mm	200 x 200 x 23 (44 with handset)
Time to answer or open the door since the call is done	30 s.
Conversation time	90 s.
Conversation privacy	Yes
Voltage	
voltage	18Vdc
Maximum consumption (mA)	18Vdc 400
Maximum consumption (mA)	400 12
Maximum consumption (mA) Standby consumption (mA)	400 12 [-5°C, +40°C]
Maximum consumption (mA) Standby consumption (mA) Operating temperature (°C)	400 12

# VDS MONITORS FEATURES

GENERAL FEATURES	6545	6550	6575
Technology		VDS (3+coax or 5 wires)	
Audio/video		Audio/Video Colour	
Mounting	Sur	face: order connector ref.656	ō.
Desktop support		Yes (ref.6566)	
Handset with magnet to facilitate the hang up		-	
Hands-free communication		Yes	
Optional communication: press-to-talk		Yes	
Induction loop version		-	
Screen dimensions	3,5" (Format 4:3)	7″ (Panorami	c 16:9)
Screen resolution (H x V)	320x240	800x48	
Touchscreen		-	Yes
Colour of the product		White	
Number of push buttons	4	1+4	4
Type of push buttons		Capacitive (touch)	
Status led notifications	4	1+4	4
TERMINAL ADDRESS PROGRAMMING			
From monitor		From OSD menu	
From the outdoor panel or guard unit		Yes	
From the outdoor panel throughout the apartment door bell		-	
FEATURES			
Automatic images capture when the visitor calls			
Guard unit call	Vac (by u	- means of the door release bi	utton
Auto-on	. ,	to 2 panels) and aerial cam	,
OSD menu on screen	ies (u	Yes	eids
Push button for additional function (F1)		Yes (sends a negative)	
Additional function from screen (F2)		Yes (sends a negative)	
Door bell		Yes	
Connection for additional devices (call extension, light/		Yes	
buzzer activator, etc.)		165	
Doormatic (automatic door release for offices, etc.)		Yes	
Audio/Video call forwarding to smartphone	Yes (required ref. 3266 W	/iFi VDS CALL DIVERT WI-BO	X One unit per home)
CONTROLS	100 (1000100101.0200 1		
Date and time		Yes	
Ring tone selection	Yes (5)		
Call volume control	Yes (8 levels by OSD menu)		
"Do not disturb" function	Yes (by OSD menu)		
Audio volume control	Yes (8 levels by OSD menu)		
Brightness, colour and contrast control	Yes (by OSD menu)		
TECHNICAL FEATURES		ies (by COD mena)	
Product dimensions (width x height x depth) mm	103x172x21 (surface)	185x172x21 (	(surface)
Time to answer or open the door since the call is done	30 s.		
Conversation time	90 s.		
Conversation time Conversation privacy			
Conversation privacy Voltage	Yes 18Vdc		
	550	650	720
Maximum consumption (mA)	25	26	45
Standby consumption (mA)	20	[-5°C, +40°C]	40
Operating temperature (°C)			
Humidity Product weight (kg)	0.26	[5%, 95%]	1
Product weight (kg)	0,36	0,6	
Connections	M, Vaux, V, M, M, V, F1, F2, Ct, +A, T, L, -, +		



# VDS TELEPHONES FEATURES

GENERAL FEATURES	3390	3391	5601
Technology		VDS (3 wires)	
Audio/video		Audio	
Mounting		Surface	
Handset with magnet to facilitate the hang up	Y	es	
Hands-free communication		-	Yes
Optional communication (Press-to-talk)			Yes
Inductive loop version		- ndset for ref.3441	165
		ctive loop)	-
Colour of the product		White	
Number of push buttons	1	3	3
Type of push buttons		Mechanical	
Status led notifications	-	1 (red ON/OFF)	3 (red, blue and green with different states)
TERMINAL ADDRESS PROGRAMMING			
From terminal		-	Yes
From the outdoor panel or guard unit		Yes	
From the outdoor panel throughout the apartment door bell		-	
FEATURES			
Guard unit call	Yes (by	means of the door release b	utton)
Auto-on		-	Yes
Additional function F1	-	Yes (F1 push button	, sends a negative)
Additional function F2		Yes (F2 push button,	
	-	sends a negative)	-
Apartment door bell differentiated from the outdoor panel		Yes	
Connection for additional devices (call extension, light/ buzzer activator, etc.)		Yes	
Doormatic (automatic door release for offices, etc.)		Yes (led ir	diantian)
Audio call forwarding to smartphone		WiFi VDS CALL DIVERT WI-BC	
CONTROLS		WIT VOU OREE DIVERT WI BC	X. One unit per nome
Melodies selection	-	Yes (2, by a 2 positions switch)	Yes (5)
Call volume control	-	Yes (3 positions switch: high, medium, OFF)	Yes (by sliding wheel)
"Do not disturb" function	-	Yes (3 positions switch: high, medium, OFF)	Yes (by sliding wheel)
Audio volume control		-	
TECHNICAL FEATURES			
Product dimensions (width x height x depth) mm	85x2	220x40	90x146,5x20
Time to answer or open the door since the call is done		30 s.	
Conversation time		90 s.	
Conversation privacy		Yes	
Voltage		18Vdc	
Maximum consumption (mA)		215	300
Standby consumption (mA)		6	24
Operating temperature (°C)	[_1000	C, +60°C]	[-5°C, +40°C]
Humidity	=	-	
•		, 90%]	[5%, 95%]
Product weight (kg)	0,29	0,32	0,16
Connections	T,A,L,-,+	T,A,L,-,+,F2,F1	F1,Ab,-A,+A,T,L,-,+

VIDE	EO SK	VIDEO SKYLINE F	PANEL													
	SKYLINE PANEL		I .		ø	Q		Å	00	o a di di Universi						
N° APART.	SERIES	FRAME	REF. FRAME	FLUSH BOX	ONINO	CA- BLE	VIDEO COL.	201	202	204 W	NITHOUT PUSH BUT. V	WITHOUT WITHOUT PUSH PUSH BUT.V BUT.W	POWER SUPPLY	4 WAYS DISTRIBUTOR	VEO MONITOR	VEO CONNECTOR
					ref. 8829	ref. 2541	ref. 7421	ref. 7376	ref. 7372	ref. 7371	ref. 7442	ref. 7443	ref. 4830	ref. 2449	ref. 9401	ref. 9402
3	S4	ЗV	7333	8854			-	<del>~</del>					-		2	2
4	S4	ЗV	7333	8854			~		-				~	←	4	4
g	S5	4	7334	8855			~	~	~				~	7	9	Q
œ	S5	4	7334	8855			~			~			~	2	ø	ω
10	SG	5	7335	8856			~	~		~			~	ო	10	0
12	SG	5V	7335	8856			~		~	~			~	ю	12	12
14	S7	6V	7336	8857			~	~	~	~			~	4	14	14
16	S7	6V	7336	8857			~			0			~	4	16	16
18	S8	Ş	7337	8858	_		~	~		7			~	വ	18	18
20	S8	≥	7337	8858			-		<del>.                                    </del>	0			~	പ	20	20
22	6S	8	7338	8982			~	~	~	0			~	9	22	22
24	6S	8	7338	8982			~			ო			~	9	24	24
24	S5	4	7334X2	8855X2	<del>~</del>	~	~			ო			~	9	24	24
26	SG	5	7335X2	8856X2	~	~	~	~	2	0	~		~	7	26	26
28	S6	5V	7335X2	8856X2	~	~	~		<del>.                                    </del>	ო	~		~	7	28	28
30	SG	5V	7335X2	8856X2	~	~	~	~	~	ო			~	œ	30	30
32	SG	5	7335X2	8856X2	~	~	~		2	ო			~	ω	32	32
32	S7	6V	7336X2	8857X2	~	~	~			4		~	~	ω	32	32
34	S7	6V	7336X2	8857X2	~	~	~	~		4	~		~	თ	34	34
36	S7	6V	7336X2	8857X2	~	~	~		~	4	~		~	თ	36	36
38	S7	6	7336X2	8857X2	~	-	~	~	~	4			~	0	38	38
40	S7	6V	7336X2	8857X2	~	~	~			പ			-	10	40	40

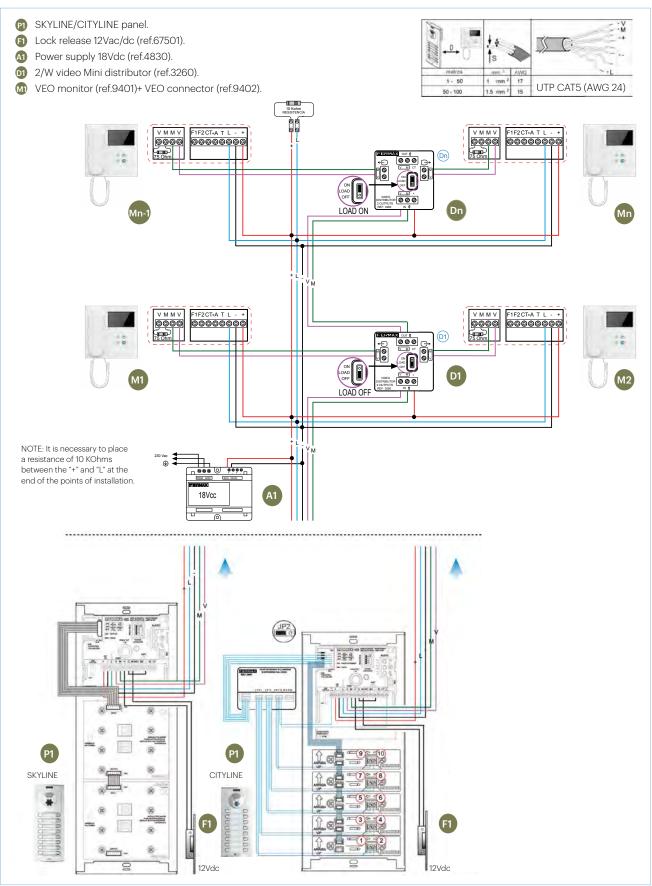
# VDS PROJECT MATERIAL LIST

\* NOTE: It will require continuous door opener (ref.67501). For AC door openers (Vac), an additional power supply ref.4802 (12Vac / 1A) is required. There are 2 and 4 outputs distributors that can be combined in one installation. They are not necessary in a cascade installation. (See VDS system section); x2 = Request 2 units of the indicated reference.

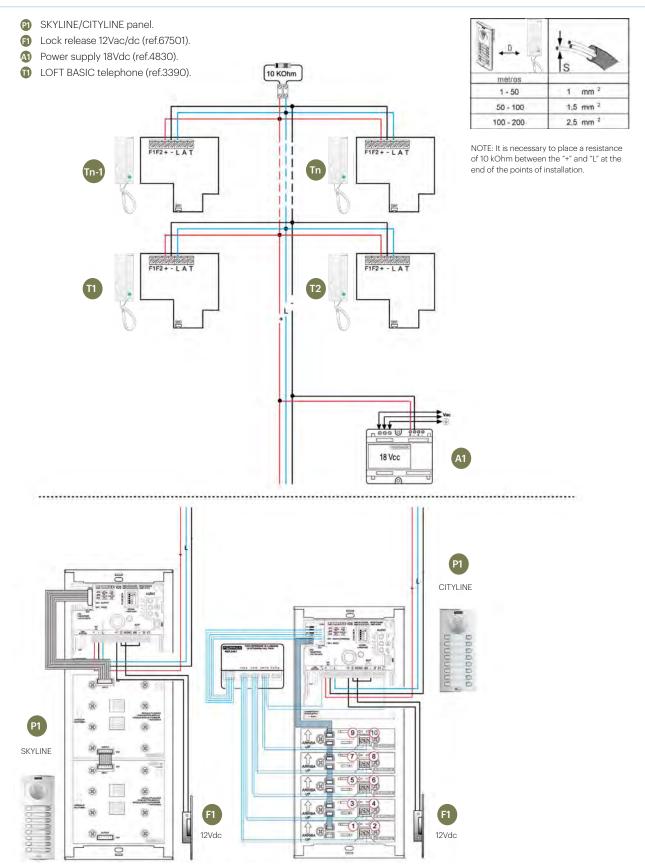
### **VDS DIAGRAMS**

FERMAX

#### VDS VIDEO 1 ACCESS WITH SKYLINE/CITYLINE PANEL. 5 WIRES / UTP CAT5

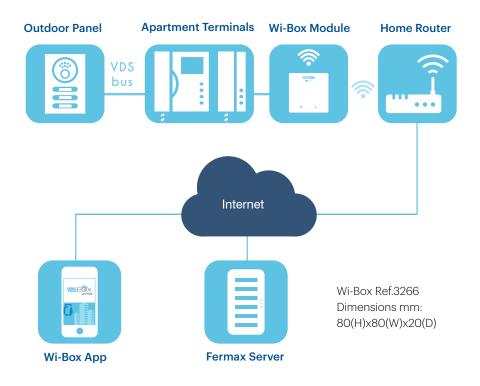


#### VDS AUDIO 1 ACCESS WITH SKYLINE/CITYLINE PANEL





TECHNICAL INFORMATION TABLES AND DIAGRAMS



### WI-BOX VDS MODULE

GENERAL FEATURES	3266
Technology	VDS (3+coax, 5 wires, UTP CAT5)
Audio/video	Audio/Video
Set-up (Installation)	Surface mounted. It can be screwed to the wall or on a standard electrical mounting box.
Colour of the product	Matt white
Number of pushbuttons	2 (PB1: user push button; PB2: installer push button)
Kind of pushbuttons	Mechanical
Number of leds for lighted indications	2 tricolour leds: Call divert status (right: PWR LED). WiFi status (left: WiFi LED).
Compatibility with VDS terminals	All VDS terminals that can call the concierge unit.
Compatibility with outdoor panels and concierge units	VDS & MDS (by means of MDS/VDS decoder ref. 2409)
TERMINAL ADDRESS PROGRAMMING	
From the terminal	WI-BOX PB2 push button. Door opening push button standby (concierge call)
SETTINGS	
Divert call ON/OFF	Yes, by means of the user pushbutton PB1
Volume control of audio towards the outdoor panel	Yes (throughout a potentiometer)
TECHNICAL FEATURES	
Product dimensions (width x height x depth) mm	80 x 80 x 20 mm. // 3,14 x 3,14 x 0,78 inch
Connectivity	WiFi (2,4 Ghz)
Date and time	Autonomy 24h without power
Voltage	18 Vdc (directly powered from the VDS terminal)
Maximum consumption	2.7 W
Standby consumption (paired and connected)	1.8 W
Working temperature (°C); Humidity	[-5°C, +40°C]; [0%, 90%]
Product weight (kg) 0.098	0.098
Line adaptor	Yes. A 75 Ohm resistor is included to adjust the video
Connections	Cable with molex connector: +, L, -, V, M, Ct, F1

APP FOR SMARTPHONES	
Compatible devices	Only smartphones (iOS>=10; Android>=5)
Connectivity	WiFi and 3G/4G
Pairing of the WI-BOX with the WiFi router of the house	By means of a QR code
Maximum number of apartments that can be managed from the App	No limit
Maximum number of smartphones where call divert	No limit
from the same house can be used	
Maximum number of users that can be invited by the administrator	No limit
Selection of features by the administrator for the invited users	Calls reception; concierge call; F1 activation and door opening
Calls reception	Audio and Video from the panels/concierge units. With preview before activating audio communication
Time to accept the call since it is produced	30 s.
Conversation time	90 s
Conversation privacy	Yes
Mute	Yes
Video off (frame rate setting)	3 levels: 25 fps, 10 fps, 0.1 fps. To reduce the data consumption when in 4G
Switching of outdoor panels/cameras	Yes. F1 button with programmable time. Protected by PIN code (1-6 digits)
Auto-on	Yes. Like in the VDS monitors
Activate additional feature (stair light relay, second door, etc.)	Yes. Like in the VDS monitors
Door opening	Yes. Protected by PIN code (1-6 digits)
Concierge call	Yes
Calls register	Yes (answered calls in green; missed calls in red)
Direct door opening without the need for auto-on	Yes
Settings	Name of the house; Do not disturb; Change password; Ringtone selection and vibration mode: Change

Direct door opening without the need for auto-on	Yes
Settings	Name of the house; Do not disturb; Change password; Ringtone selection and vibration mode; Change the WIBOX WiFi; Time F1; WIBOX Date and Time synchronization
Picture & Video capture	Automatic for the last 10 calls and manual for both photos and videos.
Available languages	16 (Spanish, English, French, German, Portuguese, Finnish, Czech, Polish, Dutch, Norwegian, Greek, Danish, Swedish, Hebrew, Russian, Arabic)
Remote update of WI-BOX firmware	Yes





ref.3266 80x80x20mm

#### 3266 WI-BOX MODULE

Wi-Box is a small module that allows you to connect one or more mobile phones to your home's VDS monitor or telephone. Just download the App and pair Wi-Box with your WiFi network.

> If you want us to tell you about it in a video, scan this code



# MDS FEATURES

# **MDS CITY**

FERMAX

SINGLE	BLOCK	GENERAL I	ENTRANCE	INTERIOR BLOCK					
Accesses (Nº. Panels)	Apartments	Digital MDS	Direct MDS	Nº. of blocks	Accesses per block (Nº. panels)	Apartments (per block)			
5.00	F0, 00 ( <sup>2</sup> )	Accesses (Nº panels)	Accesses (Nº panels)						
5 - 9 (1)	50- 99 <sup>(2)</sup>	See MDS Digital table	See MDS Direct table	99	9	50- 99 <sup>(2)</sup>			

- (1) 5 accesses (between audio and video panels) with 1 guard unit and 9 accesses (between audio and video panels) if there is no central unit.

- <sup>(2)</sup> The push button panel is recommended for buildings with less than 50 apartments. Even if at a functional level it allows the number of apartments indicated in the table.

- The MDS City system in single blocks allow to connect only 1 MDS Direct guard unit.

# **MDS DIRECT**

SINGLE	BLOCK	GENERAL I	ENTRANCE	INTERIOR BLOCK					
Accesses (Nº. Panels)	Apartments	Digital MDS	Direct MDS	Nº. of blocks	Accesses per block (Nº. panels)	Apartments (per block)			
<b>F O</b> (1)	00	Accesses (Nº panels)	Accesses (N <sup>o</sup> panels)	00	0	00			
5 - 9 (1)	99	Consulting MDS Digital Info.	5 - 9 <sup>(1)</sup>	99	9	99			

- (1) 5 accesses (between audio and video panels) with 1 guard unit and 9 accesses (between audio and video panels) if there is no central unit.

- The MDS Direct system allows to connect only 1 MDS guard unit in the whole installation.

- In case of Urbanisations, if the panel/panels is configured as General Entrance, it will be able to establish audio communication with the guard unit.

## **MDS DIGITAL**

SINGLE	BLOCK	GENERAL ENTRANCE	INTERIOR BLOCK
Accesses (Nº. Panels)	Apartments	- Maximum 63 Central Units (General Entran - Up to 32 accesses (panels/guard unit) x Ce	
32	9999	<ul> <li>Up to 9.999 apartments x Interior Block Central</li> <li>Up to 99 apartments x Interior Block Central</li> </ul>	ntral Unit with LONG call.



TABLES AND DIAGRAMS

## **SKYLINE AUDIO PANEL**

FERMAX

These panels include the Full or Building Amplifier. See the first page of the 4+N section for additional features over the Basic or Kit amplifier.

**TECHNICAL INFORMATION** 

	TEL. VEO	ref. 3426	<del>.                                    </del>	2	ო	4	പ	9	ω	0	12	4	16	8	20	22	24	26	28	30	32	34 34	36	38	40
	POWER	ref. 4802	-	~	~	~	~	-	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
	s/pus. w	ref. 7443																							
	s/pus. V	ref. 7442																~	~			~	~		
	204	ref. 7369							~	-	-	-	2	7	2	7	ო	7	ო	ო	ო	4	4	4	വ
οŭ UU	202	ref. 7370				~		~			~	~			~	~		2	~	~	2		~	~	
q	201	ref. 7374						~		~		~		-		~		~		~		~		~	
нани	104	ref. 7365					~																		
tí	102	ref. 7366		~	~																				
ĺĺ	101	ref. 7373	-		~		~																		
	AMPLI.	ref. 7400	-	-	~	~	~	-	~	~	-	-	-	~	-	~	~	~	~	~	-	~	-	~	-
Q	WIRE	ref. 2540																-	~	-	~	-	-	-	~
<u></u>	ONINO	ref. 8829																~	~	~	~	~	~	~	-
	FLUSH BOX		8854	8854	8855	8854	8856	8855	8855	8856	8856	8857	8857	8858	8858	8982	8982	8856X2	8856X2	8856X2	8856X2	8857X2	8857X2	8857X2	8857X2
1	REF. FRAME		7333	7333	7334	7333	7335	7334	7334	7335	7335	7336	7336	7337	7337	7338	7338	7335×2	7335X2	7335X2	7335X2	7336X2	7336X2	7336X2	7336X2
	FRAME		34	ЗV	4V	ЗV	5	4	4V	5	5	6	6V	2	Ž	8	8	5	5	5V	5	6V	62	6	6V
SKYLINE PANEL	SERIES		S4	S4	S5	S4	SG	S5	S5	S6	S6	S7	S7	88	88	S9	6S	S6	SG	S6	S6	S7	S7	S7	S7
	N° APA		-	2	ო	4	പ	9	œ	10	12	4	16	18	20	22	24	26	28	30	32	34	36	38	40

See AUDIO KITS from 1 to 24 lines that include all the necessary material for a complete installation. (See KITS section). Lock release required in altern (ref.30711).

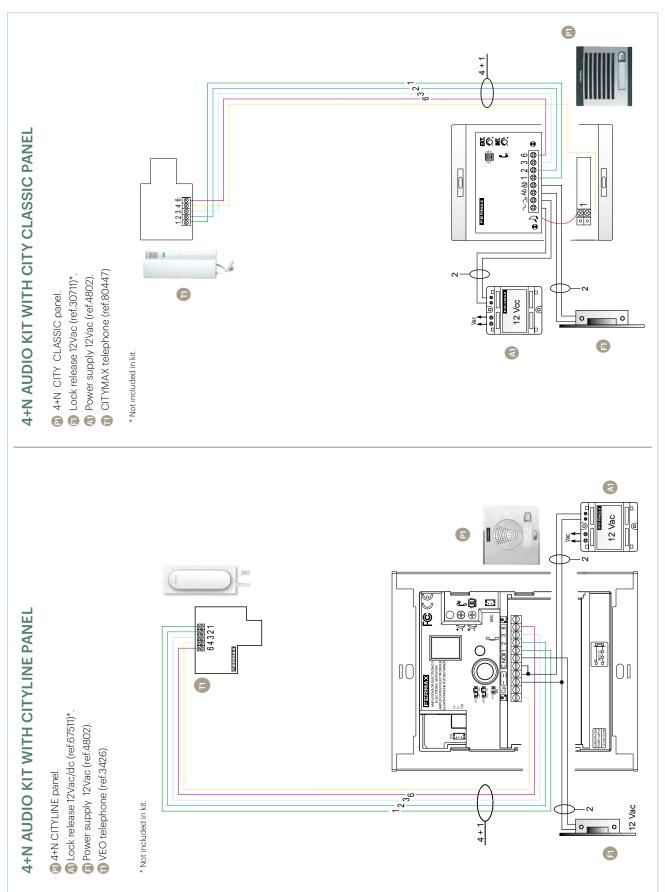
4+N



# TECHNICAL INFORMATION TABLES AND DIAGRAMS

4+N

# 4+N DIAGRAMS







KEYPAD	SKYLI	NE, CITYLINE, MA	RINE	MINI	RESISTANT		
STAND-ALONE				ref.4813	ref.4802		
	230Vac	42.5. F. 194		230Vac22	2 2		
		2					
	re	f.4802	2	Teclado 6			
	12Vac		Q	Infrarrojo 2 ref.5276			
	- F	6	2				
	ref.67501	ref.6991	ref.5287	12Vdc			
				ref.5293	ref.5233 12Vac		
GENERAL FEATURES	7438	6991	4699	5276	5293		
Reader types	Modular	Monoblock	Anti-vandal	-	Anti-vandal		
Keypad types		zamak chrome blue			Zamak		
Finish		uminium	Stainless steel		Steel		
Capacity		100 codes		1.000 cód./card	600		
Mounting		Flush/Surface (optic	onal)	Surface			
Controller		Integrated	· .	External	Internal		
Audio and visual notification			Yes				
Doors (relays)		2 (2A, No/Nc)		1 (2A, C, No, Nc)	1 (2A(C, No,N		
PROGRAMMING					·		
From reader			Yes				
Programming from keypad		-		Yes			
From PC			-	1			
FUNCTIONS							
Exit push button		2		1			
Door sensor		-		-			
Auxiliary output		Yes (Add ref.2013	3)	-			
Cloning function		-		Yes			
Code change per user		Yes		-			
Activation of 1 or 2 devices simultaneously		Yes		-			
Integrated proximity		-		-	Yes		
Free access		-		-			
Unblocking		-		-			
Duress alarm		Yes		-			
Error code alarm		Yes		-			
SETTING							
Opening time		00-99 seg. (00 bista	able)	1-99 sec.			
Open door time				-			
Monostable/ Bistable*			Y	es			
Operation mode		Only code		Code, card+co	de,		
				Card, Code Multi			
Stand-alone/Centralised	L			I-alone	Auto./Centr		
Code length			4 to 6	3 digits			
TECHNICAL FEATURES							
Reader dimensions	105,2x95	130x128	150x180	54x65x9	55x147x20		
Flush box	ref.8852	ref.8948 (included)	ref.4641	-	-		
Surface box	ref.7062	ref.7061	ref.4645	-	-		
Environment protection (IP/IK)		54/07	54/09	-	66/09		
Power Supply (V)		12Vac/cc		12Vdc	12/28Vac/co		
Consumption (mA) without lock release		40/110		20/110	25		
Compatibility		-		Readers	EM, HID (ISC		
				Wiegand26	ProxII), MIFAF		
				1 100/41 1	1 Minana dOC		
Proximity protocol/Keypad transmission format		Keypad 8 bits bur	st	Wiegand26/4bits	Wiegand26 /4-8bits		

\* Bistable: Per each valid identifier, it activates or deactivates the device.



# PROXIMITY STAND-ALONE

	SI	(YLINE, CITYLINE, M	ARINE	RES	STANT		
	230Vac	ref.480	ref.4813	2 2 ref.5276 12Vdc Infrarred keypad			
GENERAL FEATURES	7463/7440	6957/6992	5509/5472	5276*	5296		
Reader types	Modular	Monoblock	Anti-vandal	-	Compact		
Keypad types	Injected zam	ak chromed blue bacl	klighted	-	-		
Finish	Alur	ninium	Stainless steel	-	Metal		
Capacity		400 users		1.000 users	-		
Mounting	F	lush/Surface (optiona	l)	Sur	face		
Controller		Integrated		Exte	ernal		
Audio and visual notification		Yes		Y	es		
Doors (relays)		1 (2A, No/Nc)		1 (2A, C, No, Nc)	-		
Nº MASTER cards		1		2	-		
PROGRAMAMING							
From reader			Yes				
From keypad		No		Yes (incluc	les controller)		
FUNCTIONS							
Exit push button			1				
Door sensor			-				
Auxiliary output		Yes (Add ref.2013)			-		
Cloning function		Yes		Yes	-		
Open or forced door alarm		Yes			-		
SETTINGS							
Opening time		1-99 sec.		1-99 sec.			
Open door time	00-25	50sg (as default or dis	abled)	-			
Monostable/Bistable*		Monostable (1-99 sec.	.)	Y	es		
Operation mode		Card		Card or	Multicard		
Stand-alone/Centralised	5	Stand-alone/Centralise	ed	Stand-alone	Stand./Central.		
TECHNICAL FEATURES							
Reader dimensions	105,2x47,5	130x128	150x180	54x65x9	103x48x20		
Flush box	ref.8851	ref.8948 (includes)	ref.4641	-	-		
Surface box	ref.7061	ref.7061	ref.4645	-	-		
Environment protection (IP/IK)	54/	/07	54/09	-	66/09		
Power Supply (V)		12Vac/cc	121	′dc			
Consumption (mA) without lock release		90/110		20/110	35/25		
Compatibility	Ca	ards/keyrings EM 125K	hz	Readers	Cards/Keyrings		
				Wiegand26	EM, HID (ISOProxII)		
					MIFARE (13,56Mhz)		
Proximity protocol/ Keypad	Stand-alone / Da	ta Clock / Wiegand 26	6 / Prox. MDS-AC+	Wiegand26	Wiegand26		
transmission format							
Operating temperature		[-15°C to 55°C]		[-15°C to 50°C]	[-20°C to 60°C]		

\*Bistable: Per each valid identifier, it activates or deactivates the device.



# FINGERPRINT STAND-ALONE

STAND-ALONE	SKYL	INE, CITYLINE, MA	RINE	CITYLINE	INKEY MINI
					ref.4813
		22.11.7 mms.			2 2
	230Vac	The second se		230Vac	
	4		ref.5287	ref.5287	
	(in)	0006	12	<u> </u>	99:52~
	.ur	2 0 -	2		
		60	🏜 🖉 r	ef.67501	2
	ref.67501	ref.6935		ref.6937	ref.5293
					12Vac
GENERAL FEATURES	6936	6935	5482	6937	5233
Reader types	Modular	Monoblock	Anti-vandal	Monoblock	Monoblock
	Capacitive fi	ngerprint reader with	integrated	Capacitive reader/Injected chromed	Optical reader with integrated 13,56 Mhz
		M 125Mhz proximity		zamak blue backlighted keypad	MIFARE prox
Finish	Alumi		Stainless-steel	Aluminium	ABS plastic/Metal
Capacity	4500 (1 finge		ngerprints). Cei n/Surface (optic	ntralised system AC+ 2046 users	5.000 users
Mounting Controller	Intogra			Centralised need ref. 4420	Surface Integrate with Stand-alone
Audio and visual notification	Integra		Yes	Centralised need rel. 4420	Stand-alone
Doors (relays)			1 (2A, No/Nc)		1 (No/Nc) requieres
-			. (,,,		ref.2013
PROGRAMMING				,	
From reader			Yes	Yes	
From keypad From PC		Singul	ar Key (Add ref.	24661)	Inkey mini (IP)
FUNCTIONS		oingu		24001)	
Exit push button				1	
Door sensor				Yes	
Auxiliary output				2013, AUX and +)	Yes (Add ref.2013)
Cloning function				Yes	Yes, via USB
Integrated proximity				Yes	
Free access (trade)				Yes	-
Unblocking (always active lock release)				Yes	
Open or forced door alarm				Yes	
SETTING					
Opening time			1-9	99 sec.	
Open door time			1-99 sec. (as c	default disabled)	Yes
Monostable/Bistable*			Mon	nostable	
Operation mode	Fingerpr	int / card / fingerpri	nt+card	Fingerprint / code / card / fingerprint+code/ fingerprint+card	Fingerprint /card/ fingerprint+card
Stand-alone/Centralised			Stand-alone	c/Centralised	
Operation mode		-		4 or 6 digits	-
TECHNICAL FEATURES					
Reader dimensions	105,2x95	130x128	150x180	130x246	138x48
Flush box	ref.8852	ref.8948 (included)	ref.4641	ref.8855 (included)	-
Surface box	ref.7062	ref.7061	ref.4645	ref.7065	-
Environmental protection (IP/IK) Power Supply (V)	43	/07	43/09	(12)/do)	IP 65 12Vdc
Consumption (mA) without lock release			215(12Vac)/150 118/73	(12 v00)	65
Compatibility			Card/Keyring EM	/ 125KHz	MIFARE 13,56 Mhz
Proximity protocol/ Keypad					-
transmission format		-		Keypad 8 bits burst	
Operating temperature			[-15°C	to 55°C]	

# RADIOFREQUENCY STAND-ALONE

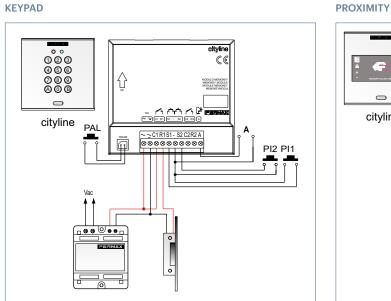
FERMAX

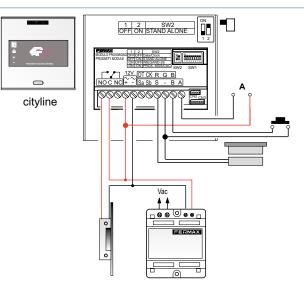
	230Vac ref.4802 ref.5250	230Vac 	868MHz 100mts //// Eiger ref.5259
GENERAL FEATURES	5250	5291	5259
Reader types	Basic-2B receiver	Basic MINI receiver	KEYSINGLE MINI emitter
Finish		BS	ABS
Capacity		users	-
Mounting	Sur	face	-
Controller	Inte	ernal	-
Audio and visual notification	Ye	25	Visual
Doors (relays)	2 (1A, C/No)	1 (3A, C/No)	-
PROGRAMMING			1
From receiver		Yes	
FUNCTIONS			
Exit push button		<u>-</u>	
Door sensor		-	
Auxiliary output		-	
SETTING			
Opening time		2 sec.	
Monostable/Bistable*	Monostable (2sec.)/Bistable selectionable in relay 2	Monostable (2sec.)	-
Operation mode		Radiofrequency 868Mhz	
Stand-alone/Centralised		Stand-alone	
TECHNICAL FEATURES			
Dimensions	82x190x40	60x44x18	30x55x10
Environmental protection (IP/IK)	54 (IP65 )	-	
Power supply (V)	12-24	/ac/cc	Includes battery 3Vdc CR2032
Consumption (mA) without lock release	60/90	50/100	12
Frequency		868,35Mhz	
Maximum power absorbed		5W	
Radiated power		<25mW	
Distance		100mts	
Codification		anging code. Rolling Code 19 trillior	
Operating temperature	[-20°C to 85°C]	[-20°C	to 55°C]

\*Bistable: Per each valid identifier, it activates or deactivates the device.

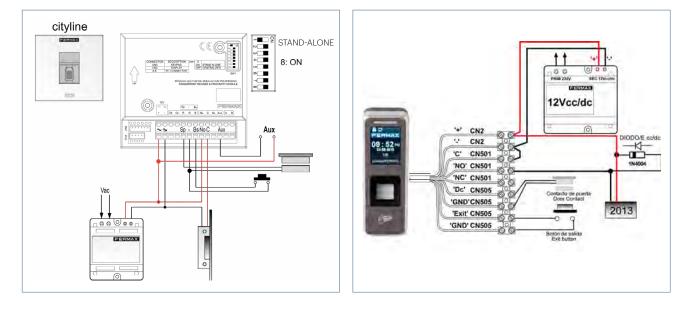


# DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION WITH INTEGRATED CONTROLLER

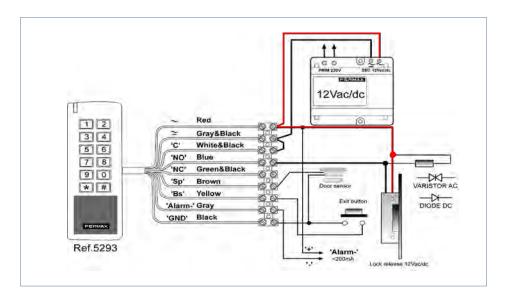




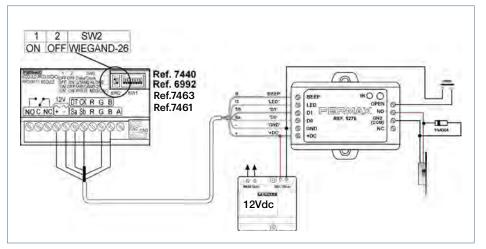
## FINGERPRINT



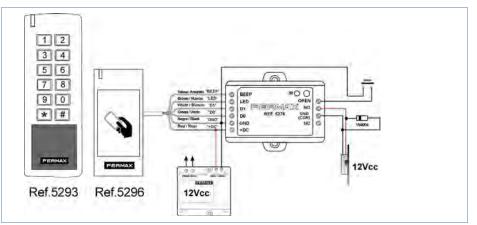
# DIAGRAM. STAND-ALONE ACCESS CONTROL INSTALLATION RESISTANT KEYPAD WITH INTEGRATED CONTROLLER



### WITH EXTERNAL CONTROLLER CITY READER WITH MINI CONTROLLER



WG READERS





# PROXIMITY CENTRALISED AC-MAX

GENERAL FEATURES	7440	6992	5472				
Reader type	Modular	Monoblock	Anti-vandal				
Keypad type	Injecte	ed chromed zamak blue backlig	ghted				
Finish	Alumi	nium	Stainless steel				
Mounting		Flush/Surface (optional)					
Audio/visual notification		Yes					
Operation mode		Card					
PROGRAMMING							
From PC	AC-MAX Software						
TECHNICAL FEATURES							
Reader dimensions	105,2x47,5	130x128	150x180				
Flush box	ref.8851	ref.8948 (included)	ref.4641				
Surface box	ref.7061	ref.7061	ref.4645				
Environment protection (IP/IK)	54,	07	54/09				
Power Supply (V)		12Vcc					
Consumption (mA) without lock release		90/110					
Compatibility	Cards/Keyrings EM	125KHz/Requires an additional	adaptor (ref. 5226)				
Operating temperature		[-15°C a 55°C]					
Terminals		+, -, D0, D1, G, B					

\* The readers ref.7461 and ref.6958 have the same technical features as the reader ref.5296, except for the aesthetics.

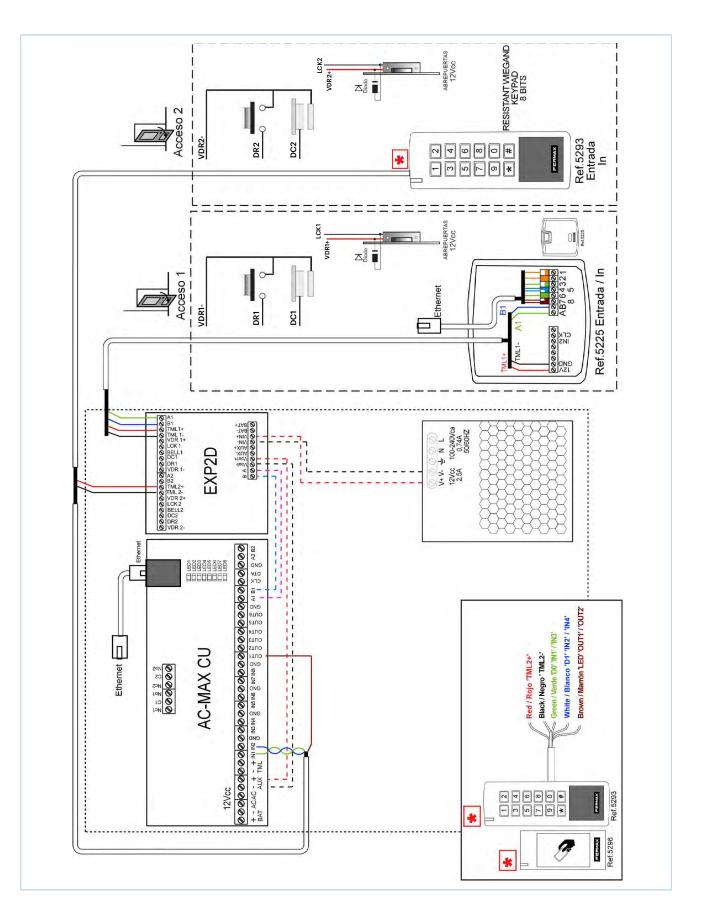
# WIEGAND KEYPAD CENTRALISED AC-MAX

GENERAL FEATURES	5191	5190	5192				
Reader type	Modular	Monoblock	Anti-vandal				
Keypad type	Injec	ted chromed zamak blue backl	ighted				
Finish	Alum	inium	Stainless steel				
Capacity		Set by the external controller					
Mounting		Flush/Surface (optional)					
Controller		External					
Audio/visual notification		Yes (depends on the controller	·)				
Doors (relays)		1 (1A, C/No/Nc)					
Auxiliary relay		No					
Integrated proximity		No					
PROGRAMMING							
From PC		AC-MAX Software					
TECHNICAL FEATURES							
Reader dimensions	105,2x95	130x128	150x180				
Flush box	ref.8852	ref.8948 (incluided)	ref.4641				
Surface box	ref.7062	ref.7061	ref.4645				
Environment protection (IP/IK)	54,	(07	54/09				
Power Supply (V)		12Vdc					
Consumption (mA) without lock release		70					
Compatibility		-					
Proximity protocol/ keyboard	4/8	hits hurst keynad (selectable h	v SW1)				
transmission format	4/8 bits burst keypad (selectable by SW1)						
Operating temperature		[-15°C to 55°C]					
Terminals		+, -, DO, D1, G, B					



ACCESS CONTROL

# DIAGRAMS. CENTRALISED ACCESS CONTROL INSTALLATION





# REFERENCE INDEX



# **REFERENCE INDEX**

REF	DESCRIPTION	FAM	PAGE	REF	DESCRIPTION	FAM	PAGE
1021	EMERGENCY MODULE 18 VDC	2	90,110	2068	BUZZER EXTENSION CALL	2	123
1076	MC740 G2 MAGNETIC CONTACT	19	131,143	2070	BATTERY 12V 2.3Ah	2	90
1087	MDS/AC+ REMOTE MANAGEMENT TERMINAL	2	109	2289	MARINE JOINING BOLTS SET	2	51,84,101,106
1401	1/W VIDEO WAY 7" KIT	3	27	2306	MANUAL PROGRAMING KEYPAD	19	46,104
1402	2/W VIDEO WAY 7" KIT	3	27	2336	PROXIMITY CARD EM (WITH MAGNETIC STRIPE)	19	46,104,108,137,141
1410	WAY KIT P.S.U. DIN8 26VDC-2A	2	27	2338	PC RS232 TO RS485 ADAPTOR	2	109
1412	7" WAY KIT MONITOR 1	4	27	2340	CALL MULTIPLIER	2	123
1413	7" WAY KIT MONITOR 2	4	27	2379	MDS DIGITAL 2 ACCESSES SHIFTER	2	109
1416	1/W COLOUR WAY VIDEO KIT PANEL	3	27	2405	1 ACCESS MDS DIGITAL CENTRAL UNIT	2	109
1417	2/W COLOUR WAY VIDEO KIT PANEL	3	27	2409	VDS/MDS DECODER	2	89
1418	WAY RELAY MODULE	2	27	2438	VDS LIGHT/BUZZER ACTIVATOR	2	59,92
1419	WAY SWITCHER/DISTRIBUTOR	4	27	2441	16 CALL EXTENSION MODULE	2	51,84
1431	1/W VIDEO WAY-FI 7" KIT	3	26	2443	MDS_DIRECT/CITY 1 ACCESS SWITCHER	4	100
1436	7" WAY-FI KIT MONITOR	3	26	2448	2/W VIDEO DISTRIBUTOR	4	89
1438	1/W WAY-FI VIDEO KIT PANEL	3	26	2449	4/W VIDEO DISTRIBUTOR	4	89
1440	WAY-FI KIT P.S.U. DIN8 26VDC-2A	2	26	2450	VDS VIDEO SWITCHER MODULE	4	89,93
1445	KIN TOUCH PANEL MEET	11	64	2466	PC DECODER PROGRAMMING MODULE	2	109
1449	KIN PANEL FLUSH BOX MEET	11	64	2492	VDS GUARD UNIT CONNECTION MODULE	2	89
1455	MARINE DIGITAL VIDEO PANEL MEET	11	66	2532	MDS DIRECT CITYMAX GUARD UNIT	2	100
1456	MARINE DIRECTORY PANEL MEET	11	66	2536	VDS CITYMAX GUARD UNIT	2	89
1458	MARINE PANEL SURFACE BOX MEET	11	66	2537	MDS DIGITAL DESKTOP GUARD UNIT	2	109
1459	MARINE PANEL FLUSH BOX MEET	11	66	2541	DUOX/VDS/BUS2 SKYLINE CABLE CON. 6W	2	47,82
1465	LIFT DISPATCH 32 SENSORS MODULE	11	75	2542	5W CITY PANEL CABLE CONNECTION	2	47,82
1485	MEET MONITOR DESKTOP SUPPORT	11	68,69	2879	ELECTRIC RIM LOCK MOD.962-DOUBLE KEY+PUSH	2	129
1489	WIT 10' MONITOR FLUSH BOX MEET	11	69	2892	L22-TYPE GREY SHIELD	2	131
1490	EXTERNAL DOORLOCK RELAY MEET	11	75	2893 2894	M-TYPE SHIELD P22-TYPE GREY SHIELD	2	131
1491	MEET 4 RELAY MODULE	11	75	2094		2	131
1494	MEET GUEST CODE WIEGAND MODULE	11	75	2913	DOOR CONTACT 2C (DOUBLE) DOOR CONTACT 3C (TRIPLE)	2	131
1496	MEETME CALL DIVERT LICENSE W/O TERM 1APT	11	71	2922	LOCK RELEASE N-2001 CHROME	2	129
1498	SP-POE12 POE SPLITTER	11	31,75,143	2940	LOCK RELEASE N-2003 AL.ANOD	2	129
1506	1/W MEET 10" WHITE WIT VIDEO KIT	3	31	2973	S-TYPE SHIELD	2	131
1507	1/W MEET 10" BLACK WIT VIDEO KIT	3	31	2975	G-TYPE GREY SHIELD	2	131
1586	SWITCH POE 4 PORTS	11	31,75	2984	LOCK RELEASE MOD.8000N WITH CHAIN	2	129
1587	SWITCH POE 8 PORTS	11	75	2985	GE-TYPE SHIELD	2	131
1608	USB AC-MAX LICENSE KEY6-LKY	19	151	2987	2006-TYPE GREY CASE	2	131
1616	FERMAX MEET RELAY DECODER 10 OUTPUTS	11	75	3004	LOCK RELEASE MOD.6000N	2	129
1727	ELECTRIC STRIKE 540AaD-412 MAX	2	128	3005	LOCK RELEASE MOD.6000A	2	129
1728	ELECTRIC STRIKE 540Aa-412 MAX	2	128	3006	LOCK RELEASE 6000AD	2	129
1777	ELECTRIC STRIKE 540N MAX	2	127	3050	ELECTROMAGNETIC LOCK FLUSH-MOUNTED	2	130
1780	ELECTRIC STRIKE 540Aa MAX	2	128	3064	LOCK RELEASE MOD.PN (panic)	2	129
1781	ELECTRIC STRIKE 540AaD MAX	2	128	3083	FLEXIBLE CONDUIT	2	131
1782		2	127	3101	AUTOMATIC LOCK MOD.850/50A	2	130
1786	ELECTRIC BOLT MOD.700N-512/524 (V7)	2	130	3102	AUTOMATIC LOCK MOD.850/25A	2	130
1794	ELECTRIC STRIKE 540N-512 MAX	2	127	3233	DUOX PLUS BASIC RELAY	2	59
1799	ELECTRIC STRIKE 540ND MAX ELECTRIC STRIKE 540Ab-412 MAX	2	127 128	3255	DUOX PLUS LINE ADAPTOR	2	58
1810				3260	2/W VDS MINI DISTRIBUTOR	4	89
1811	ELECTRIC STRIKE 540AbD MAX ELECTRIC STRIKE 540Ab MAX	2	128 128	3262	4/W VDS MINI DISTRIBUTOR	4	89
1812 1813	UNIVERSAL ELECTRIC STRIKE 990ND 10-24V MAX	2	128	3265	VDS PROGRAMMER	2	89
1813	UNIVERSAL ELECTRIC STRIKE 990ND 10-24V MAX UNIVERSAL ELECTRIC STRIKE 990ND TOP 10-24V	2	127	3266	WIFI VDS CALL DIVERT WI-BOX	2	28,91,181
1817	UNIVERSAL ELECTRIC STRIKE 990N-L22 10-24V	2	127	3267	DUOX PLUS RELAY	2	59
1820	LOCK RELEASE 540Ab-412-S MAX	2	127	3268	1W DUOX PLUS DUAL REGENERATOR	2	57
1821	LOCK RELEASE 540Ab-S MAX	2	122,128	3269	2W DUOX PLUS REGENERATOR	2	57
1823	LOCK RELEASE 990Ab-L22 12-24V MAX	2	122,120	3289	DUOX PLUS FILTER 24VDC	4	58
1824	LOCK RELEASE 990Ab-P22 12-24V MAX	2	128	3380	LOFT TELEPHONE DECORATIVE FRAME	2	56,88,121
2008	8 CALL EXTENSION MODULE	2	51,84	3388	UNIVERSAL FRAME	4	56,87,88,121
2013	ADDITIONAL FUNCTIONS RELAY	2	92,123,143	3389	UNIVERSAL FRAME LARGE	4	56,86,87,88,121
2040	ELECTRONIC EXTENSION CALL	2	59,92,123	3390	VDS BASIC LOFT TELEPHONE	2	88
2060	BATTERY ADAPTOR 12 V	2	110	3391	VDS EXTRA LOFT TELEPHONE	2	88
		1		3394	4+N EXTRA LOFT TELEPHONE	2	120

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3426	VEO 4+N TELEPHONE	2	35,36,120	4876	22/W 4+N AUDIO CITY KIT	3	36
3431	UNIVERSAL 4+N VEO TELEPHONE	2	120	4877	24/W 4+N AUDIO CITY KIT	3	36
3441	LOFT TELEPHONE HANDSET W/INDUCT.LOOP	2	56,88,121	4905	CITYLINE PROXIMITY KIT	19	141
3443	VEO TELEPHONE HANDSET W/INDUCT.LOOP	2	56,86,121	4906	CITY MEMOKEY KIT	19	136
3444	DUOX PLUS VEO TELEPHONE	2	34,56	5190	CITY KEYPAD READER	19	149
3450	DUOX PLUS ILOFT TELEPHONE	2	34,56	5191	SKYLINE KEYPAD READER	19	149
3452	DUOX PLUS EXTRA LOFT TELEPHONE	2	56	5192	MARINE KEYPAD READER	19	149
3749	VEO/LOFT TEL. DESKTOP SUPPORT	2	56,88,121	5201	AC-MAX EXPANDER 8 INPUTS/OUTPUTS EXP8-IO	19	151
4110	VIDEO SIGNAL AMPLIFIER	4	93	5204	READER PROX. DESKTOP AC-MAX KEY3-USB	19	151
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4515	PROXIMITY KEYRING EM	19	46,104,108,	5208	CONTACTLESS PUSHBUTTON SURFACE BOX	19	143
			137,141,143,150	5209	LIFT CONTROL METAL ENCLOSURE AC-MAX	19	151
4531	PROXIMITY CARD DESFIRE EV2	19	139,150	5221	LIFT CONTROL 8 FLOORS LICENSE AC-MAX	19	151
4532	PROXIMITY KEYRING EV2 DESFIRE	19	139,150	5222	LIFT CONTROL 8 FLOORS KIT AC-MAX	19	151
4533	USB CARD READER DESFIRE	19	139,149	5223	KIT AC-MAX 2 DOORS	19	149
4534	USB PROGRAMMING CARDS DESFIRE	19	139,149	5224	KIT AC-MAX 4 DOORS	19	149
4545	TELEPHONE INTERFACE	2	92,122	5225	FPAC-MAX FINGERPRINT READER	19	150
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4580	SPECIAL MARINE FLUSH BOX	2	53,67,85,107	5232	KEYSINGLE PLUS4 REMOTE CONTROL	19	108,144,150
4581	SPECIAL MARINE SURFACE BOX	2	53,67,85,107	5233	INKEY-MINI IP FINGERPRINT W/PROX MIFARE	19	143
4614	VIDEO SELECTOR	4	93	5234	USB INKEY-MINI FINGERPRINT READER	19	143
4641	MARINE ST1 FLUSH BOX	2	24,34	5237	RESISTANT PROXIMITY KIT	19	140
4642	MARINE ST2 FLUSH BOX	2	24	5238	RESISTANT MEMOKEY KIT	19	137
4643	MARINE ST3 FLUSH BOX	2	51,84,101,106	5249	RF 868MHZ SYSTEM KIT FOR SHOPS	19	144
4644	MARINE ST4 FLUSH BOX	2	51	5250	RF BASIC-2B RECEIVER 12-24V	19	144
4645	MARINE ST1 SURFACE BOX	2	50,83,106	5259	RF KEYSINGLE MINI REMOTE CONTROL	19	46,104,108,144,150
4646	MARINE ST2 SURFACE BOX	2	50	5266	RF-WIEGAND RECEIVER 12 VDC	19	108,150
4647	MARINE ST3 SURFACE BOX	2	51,84,101,106	5276	STAND-ALONE CONTROLLER 1 DOOR WG	19	137,140,141
4648	MARINE ST4 SURFACE BOX	2	51	5287	EMBED EXIT BUTTON (SBUTTON 1)	19	143
4653	MARINE ST3+ FLUSH BOX	2	51	5288	SURFACE EXIT BUTTON (SBUTTON 5)	19	143
4654	MARINE ST3+ SURFACE BOX	2	51	5291	RF BASIC-MINI RECEIVER 12-24V	19	46,104,144
4655	MARINE ST3+ HOOD	2	51	5293	KEYPAD W/PROXIMITY RESISTANT	19	108,137,149
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4701	MARINE ST1 HOOD	2	50,83,106	5467	MARINE AUDIO PANEL MDS DIGITAL ST3	2	101
4702	MARINE ST2 HOOD	2	50	5468	MARINE VIDEO PANEL VDS DIGITAL ST3	2	84,106
4703	MARINE ST3 HOOD	2	51,84,101,106	5470	MARINE VIDEO PANEL MDS DIGITAL ST3	2	101
4704	MARINE ST4 HOOD	2	51	5471	MARINE ST3 DIRECTORY PANEL	2	51,84,101,106
4800	P.S.U DIN4 230Vac/12Vac - 1,5A	2	58,90,122,131,144	5472	MARINE PROXIMITY READER	19	108,141,149
4802	P.S.U. DIN4 230VAC/12VAC-1A	2	23,24,25,34,35,36,	5482	MARINE FINGERPRINT READER	19	108,142
			37,58,90,122,131, ,143,144	5509	MARINE DESFIRE PROXIMITY READER	19	139,149
4810	P.S.U. DIN10 230VAC/12VAC+18VDC-1.5A	2	28,90	5601	ILOFT TELEPHONE VDS EXTRA	2	88
4812	P.S.U. DIN6 100-240VAC/18VDC-1,5A	2	90,110	5636	ILOFT TEL. DESKTOP SUPPORT	2	56,88
4813	P.S.U. DIN6 100-240VAC/12VDC-2A	2	75,110,131,	5919	CABLE FOR VIDEO+POWER (100M ROLLS)	0	93
			137,143,144	5925	DUOX PARALLEL CABLE 2X1 RED/BLACK	0	59
4825	POWER SUPP. UNIT+FILTER DIN10 24VDC-2.5A	2	23,24,25,34,58	6201	1/W CITYMAX AUDIO KIT WH./TEL	3	35
4830	POWER SUPPLY UNIT DIN-6 100-240VAC/18VDC	2	90,110	6202	2/W CITYMAX AUDIO KIT WH./TEL	3	35
4840	P.S.U. DIN-6 100-240VAC/24VDC-2A	2	58	6203	3/W CITYMAX AUDIO KIT WH./TEL	3	37
4845	1/W 4+N CITY KIT AUDIO PANEL	3	35	6204	4/W CITYMAX AUDIO KIT WH./TEL	3	37
4860	1/W 4+N AUDIO CITY KIT	3	35	6206	6/W CITYMAX AUDIO KIT WH./TEL	3	37
4862	2/W 4+N AUDIO CITY KIT	3	35	6208	8/W CITYMAX AUDIO KIT WH./TEL	3	37
4863	3/W 4+N AUDIO CITY KIT	3	36	6210	10/W CITYMAX AUDIO KIT WH./TEL	3	37
4864	4/W 4+N AUDIO CITY KIT	3	36	6212	12/W CITYMAX AUDIO KIT WH./TEL	3	37
4865	10/W 4+N AUDIO CITY KIT	3	36	6214	14/W CITYMAX AUDIO KIT WH./TEL	3	37
4866	6/W 4+N AUDIO CITY KIT	3	36	6216	16/W CITYMAX AUDIO KIT WH./TEL	3	37
4867	12/W 4+N AUDIO CITY KIT	3	36	6218	18/W CITYMAX AUDIO KIT WH./TEL	3	37
4868	8/W 4+N AUDIO CITY KIT	3	36	6220	20/W CITYMAX AUDIO KIT WH./TEL	3	37
4869	14/W 4+N AUDIO CITY KIT	3	36	6222	22/W CITYMAX AUDIO KIT WH./TEL	3	37
4871	16/W 4+N AUDIO CITY KIT	3	36	6224	24/W CITYMAX AUDIO KIT WH./TEL	3	37
4874	18/W 4+N AUDIO CITY KIT	3	36	6545	3.5" VDS BASIC SMILE MONITOR	4	87
4875	20/W 4+N AUDIO CITY KIT	3	36	6550	7" VDS BASIC SMILE MONITOR	4	87

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6566	SMILE MON. DESKTOP SUPPORT	4	87				104,117,141,149
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6750	UNIVERSAL ELECTRIC STRIKE 990N 10-24V MAX	2	59,90,127	7443	SKYLINE METALLIC COMPLEMENT W	2	43,45,81,99,102,117
6752	UNIVERSAL ELECTRIC STRIKE 990A 12-24V MAX	2	59,90,128	7444	SKYLINE PANORAMIC CARDHOLDER V	2	43,45,81,99,
6753	UNIVERSAL ELECTRIC STRIKE 990AD 10-24V MAX	2	128				102,104,117
6780	UNIVERSAL ELECTRIC STRIKE 990N-512 MAX	2	127	7445	SKYLINE PANORAMIC CARDHOLDER W	2	43,45,81,99,102,117
6935	CITY FINGERPRINT READER	19	108,142	7447	BUS2/VDS/MDS SKYLINE DIGITAL KEYPAD	2	81,102
6936	SKYLINE FINGERPRINT READER W	19	43,46,81,99, 102,117,142	7448	ONE TO ONE V MODULE SKYLINE	2	43,45,81,99, 102,104,117
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# **NOTES**

# NOTES






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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 in accordance with the relevant incoterm agreed by FERMAX and the Distributor.

### 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 36 months 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 applies only to products purchased on or after January 1st 2022. For all products purchased before that date the guarantee period remains 24 months.

These guarantee terms apply to products sold by FERMAX ELECTRONICA Spain directly to its distributors 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 inappropiate material, influence of chemical or electrolytic action or other similar causes.

The FERMAX guarantee shall be subject to thecorrect fulfilment of all payment terms and conditions agreed at the time of confirmation of the purchase order.

#### 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.

FERMAX reserves the right to modify these commercial conditions of sale, as well as the prices of the Products. The technical and aesthetic characteristics of the Products may be modified from time to time. The graphic representations included are merely for illustrative purposes. FERMAX <sup>®</sup> is a registered trademark. All intellectual property and license rights reserved.



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